TESTSTREAMS

ACCESS BANK®

GRADUATE JOB APTITUDE TEST
& Front-liners programme

PAST QUESTIONS PACK

SUCCESS 100% GUARANTEED

UPDATE
2018/19

FREE GMAT/ CURRENT AFFAIRS BOOK

Contents

This preparation guide helps you to prepare for Access bank's Front-liner's & Graduate trainee programme aptitude tests.
It helps you familiarize with the kind of questions you will face in the test.

Overview of the Assessment

Access bank uses aptitude assessments as part of their multi-stage assessment procedures for the selection and development of staff. Research has shown that they are powerful predictors of performance at work. The test is usually conducted by the in-house recruitment department at their training college.

General format for the test:

Old-test styled Business Math/Quantitative, English/Verbal reasoning, G.B.A(General Bank Awareness)/Current Affairs to be completed within 90mins (The timing is subject to change every year). This study pack helps you find out more about your strengths and areas you need to improve on.

The Assessments help Access bank to:

- select candidates best suited to the demands of the job.
- Identify areas where individuals might benefit from further development
- obtain objective information about candidates' abilities
-

Instructions

On the following pages are some practice questions which are similar to those you will be asked in the assessment. Completing these will help you understand the types of questions used and gain experience in taking the tests.

These questions are basically created based on past tests as well as suited practice materials.

Have a pen and paper to hand to indicate your answers and make notes. You will NOT use a calculator. The actual test is strictly timed. Try to complete each set within time recommended in this study pack.

Checking your Answers

Check your answers against the correct answers after each test set. Look at any questions you got wrong and try to understand how to arrive at the correct answer. Keep in mind that in most aptitude tests, people typically do not complete all of the questions within the time limit. If you took much longer than 90 minutes to answer the questions, try to speed up your work rate. If you finished all of the questions within the time limit but made many mistakes, try focusing more on the accuracy of your responses.

Improving your Numerical Abilities:

Some tips for improving problem solving abilities are provided below:

- Complete daily calculations both with and without a calculator.
- Look for differences such as percentage changes in numerical trends.
- Check calculations done by others.
- Take on responsibilities which involve working with numbers.

Before the Test

- Practice every question that comes pack, READ THE STUDY NOTE at the end.
- Get a good night's sleep before the assessment.
- Make sure you are wearing any glasses, contact lenses or hearing aids you may require.
- If you have any special requirements, such as larger print versions of the test, specific lighting or seating needs, it is important that you make these known immediately to allow appropriate accommodations to be made.

During the Assessment

- Try to stay calm. Using the practice tips above should help you feel more at ease.
- Follow theinstructions carefully, and ask questions ifyou are not sure of anything before the test starts.
- Read each question carefully.
- Work as fast as you can. Do not take too much time over any one question.
- If you find a question too difficult or are unsure of an answer indicate your best choice and move on quickly.
- After an assessment always seek feedback. It is much easier to improve your abilities if you know how well you havedone.
  Email: recruiment@accessbankplc.com, Phone: 07026085859

Correct Answer Indication should look like this:

Good luck in your test.
TestStreams team wishes you every success in your career.

In this section you will be required to take problem solving questions.
You are advised to work quickly and as correctly as possible.
Each question should take about 1 minute to complete.
There will be 50 questions in this section (Based on past tests).
The number of questions don't matter as long as you have it in your mind to answer one question in one minute averagely.
So even if there are 20 questions in your actual exam, then you will most likely be required to complete the test in 20 minutes.

The problem solving questions are made of a mix of basic business mathematics (Ratios, percentage increase/decrease, sequence completion, discounts, Algebra, Basic Arithmetic and Basic quantitative reasoning). Few of these questions are drawn from GMAT book (Old syllabus), be careful not to dwell on the new GMAT syllabus (2009-Upwards) incase you need some extra practice.

If you master solving the questions in this study-pack, Then Relax!
You will do very well.

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-
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Problem solving questions are designed to test your basic mathematical skills and understanding of elementary mathematical concepts, as well as your ability to reason quantitatively, solve quantitative problems, and interpret data.

The mathematics knowledge required to answer the questions is no more advanced than what is generally taught in secondary school (or high school) mathematics classes. The test is simple, but time may not be enough.

In these questions, you are asked to solve each problem and select the best of the five answer choices given.

1. Begin by reading the question thoroughly to determine exactly what information is given and to make sure you understand what is being asked.

2. Scan the answer choices to understand your options. If the problem seems simple, take a few moments to see whether you can determine the answer. Then check your answer against the choices. If you don't see your answer among the choices, or if the problem is complicated, take a closer look at the answer choices and think again about what the problem is asking. See whether you can eliminate some of the answer choices and narrow down your options. If you are still unable to narrow the answer down to a single choice, reread the question.

3. Keep in mind that the answer will be based solely on the information provided in the question-don't allow your own experience and assumptions to interfere with your ability to find the correct answer to the question.

4. If you find yourself stuck on a question or unable to select the single correct answer, keep in mind that you have about one minute to answer each quantitative question. You may run out of time if you take too long to answer any one question, so you may simply need to pick the answer that seems to make the most sense. Although guessing is generally not the best way to achieve a high score, making an educated guess is a good strategy for answering questions you are unsure of. Even if your answer to a particular question is incorrect, your answers to other questions will allow the test to accurately gauge your ability level.

Ready to begin?

Your Checklist

- ☑ Rough paper to work on.

- ☑ Stop watch to time yourself.

- ☑ Set watch to countdown from 50mins.

- ☑ Your pen, and paper to record your answers.

- ☑ Now you are ready, proceed to next page.

Access Bank>>>

Graduate Recruitment and Front Liners Programme

Questions Set 2017

SECTION-1:

QUANTITATIVE ABILITY

Directions: There are 30 questions in this section, solve each of this quantitative ability problem and indicate the best of the Answer choices given.

Numbers: All numbers used are real numbers.

Figures: A figure accompanying this problem-solving question is intended to provide information useful in solving the problem.

Terms used in this test section are only for educational purposes and have no real life meaning. They do not represent Access bank's operational data.

When you are ready, click **next** button.

QUESTION 1.

Dan had an average of 72 on his first four math tests. After taking the next test, his average dropped to 70. Which of the following is his most recent test grade?

- A. 60
- B. 62
- C. 64
- D. 66
- E. 68

QUESTION 2.

What is the average of the first 15 positive integers?

- A   7
- B   7.5
- C   8
- D   8.5
- E   9

QUESTION 3.

David had d dollars. After a shopping trip, he returned with c cents. How many cents did he spend?

- A $d - c$
- B $c - d$
- C $100d - c$
- D $100c - d$
- E $d - 100c$

QUESTION 4.

A certain copy machine produces 13 copies every 10 seconds. If the machine operates without interruption, how many copies will it produce in an hour?

○ A 78
○ B 468
○ C 1800
○ D 2808
○ E 4680

QUESTION 5.

A suit marked at $80 is sold for $68. What is the rate of discount?

○ A 15%
○ B 12%
○ C 17 11/17 %
○ D 20%
○ E 24%

QUESTION 6.

What was the original price of a radio that sold for $70 during a 20%-off sale?

○ A $84
○ B $56
○ C $87.50
○ D $92
○ E $90

QUESTION 7.

What is 40% of 16?

- ○ A. 6.4
- ○ B. 64
- ○ C. 640
- ○ D. 0.64
- ○ E. 0.064

QUESTION 8.

What is the number of triangles in an octagon?

- ○ A.326
- ○ B.120
- ○ C. 56
- ○ D.180
- ○ E. cannot be determined

QUESTION 9.

The average of 5 quantities is 6. The average of 3 of them Is 8. What is the average of the remaining two numbers?

- ○ A.6.5
- ○ B. 4
- ○ C. 3
- ○ D. 3.5
- ○ E. 2.5

QUESTION 10.

The price of a product is reduced by 30%. By what percentage should it be increased to make it 100%?

- A.38.758%
- B.42.857%
- C.62%
- D.70%
- E. None of the above

QUESTION 11.

If you take 29 oranges from 60 oranges, how many oranges will you have?

- A. 89
- B. 60
- C. 31
- D. 29
- E. None of the above

QUESTION 12.

If a class begins at 2:21pm and ends at 4:36pm the same afternoon, how many minutes long is the class?

- A. 75minutes
- B. 135minutes
- C. 150minutes
- D. 215minutes
- E. 285minutes

QUESTION 13.

If two typists can type two pages in two minutes, how many typists will it take to type 18 pages in six minutes?

- A. 3
- B. 4
- C. 6
- D. 12
- E. 36

QUESTION 14.

The enrollments at College X and College Y both grew by 8 percent from 1980 to 1985. If the enrollment at College X grew by 800 and the enrollment at College Y grew by 840, the enrollment at College Y was how much greater than the enrollment at College X in 1985?

- A 400
- B 460
- C 500
- D 540
- E 580

QUESTION 15

A box is filled with cookies ranging in weight from 3.2 grams to 3.8 grams. How many cookies are in the box?

(1) The gross weight of the box and the cookies is 130 grams.

(2) The net weight of the cookies is 112 grams.

○ (A) statement 1 alone is sufficient to Answer the question, but statement 2 alone is not sufficient

○ (B) statement 2 alone is sufficient to Answer the question, but statement 1 alone is not sufficient

○ (C) both statements together are needed to Answer the question, but neither statement alone is sufficient

○ (D) either statement by itself is sufficient to Answer the question

○ (E) not enough facts are given to Answer the question

QUESTION 16

What is 200% of 0.010?

○ (A) 0.0002
○ (B) 0.0005
○ (C) 0.020
○ (D) 0.050
○ (E) 0.20

QUESTION 17

If $3/p = 6$ and $3/q = 15$ then $p - q = ?$

○ A.   1/3
○ B.   2/5
○ C.   3/10
○ D.   5/6
○ E.   None of the above

QUESTION 18

Which of the following is the greatest?

- A.   40% of 30
- B.   3/5 of 25
- C.   6.5% of 200
- D.   Five more than the square of 3
- E.   1/2-4

QUESTION 19

If the value of XYZ Company stock drops from $25 per share to $21 per share, what is the percent of the decrease?

- A.   4
- B.   8
- C.   12
- D.   16
- E.   20

QUESTION 20

What is the greatest value of a positive integer n such that 3n is a factor of 1815?

- A.   15
- B.   18
- C.   30
- D.   33
- E.   45

QUESTION 21

A more convenient way of writing number using powers of 10 as in the ease of 864,000,000 into two decimal places is

   ○ A. 8.64×10^7
   ○ B. 86.4×10^7
   ○ C. 0.864×10^7
   ○ D. 0.0864×10^7

QUESTION 22

$1=(2-y)/y$, what is y/y

   ○ A. y
   ○ B. 2
   ○ C. 0
   ○ D. 1

QUESTION 23

10^{-10} could be written as what ?

   ○ A. $1 / 10$
   ○ B. $1/10^{-1}$
   ○ C. $1 / 10^{-10}$
   ○ D. $1 / 100^5$

QUESTION 24

$(10^p / 10^q)$ is the same as?

   ○ A. 10^{p-q}

○ B. 10^{q-p}
○ C. 10^{-pq}
○ D. 10^{pq}

QUESTION 25

10^p x 10^q is the same as?

○ A. 10^{p+q}
○ B. 10^{pq}
○ C. $10^{p/q}$
○ D. 10^{p-q}

QUESTION 26

Round up 2.484 to the nearest hundredth

○ A. 24.82
○ B. 2.48
○ C. 248.4
○ D. 24.480

QUESTION 27

How many significant figures are in this number assuming it is recorded accurately 149.8 inches

○ A. Four
○ B. Five
○ C. Three
○ D. One

QUESTION 28

During a promotion interview the following represent the grades of six candidates; 84,91,72,68,87 and 78. Find The average score

○ A. 82.5
○ B. 86
○ C. 84
○ D. 80

QUESTION 29

Two variables x and y, assume the values $x_1= 2$, $x_2 = -8$, $x_3= 4$ $x_4=1$ and $y_1 =-3$ $y_2 =-8$ $y_3 =10$ $y_4=6$ Calculate x

○ A. -1
○ B. -4
○ C. -7
○ D. -9

QUESTION 30

Two variables x and y, assume the values $x_1= 2$, $x_2 = 8$, $x_3=4$ $x_4=8$ and $y_1 =-3$ $y_2 =-8$ $y_3 =10$ $y_4=6$ calculate y

○ A. 5
○ B. 7
○ C. 9
○ D. 6

SECTION-2:

VERBAL ABILITY

Directions: There are 20 questions in this section, solve each of this Verbal ability problem and indicate the best of the Answer choices given.

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When you are ready, click **next** button.

COMPREHENSION PASSAGE 1

There was in increase of about 10 % in the investment in the public sector, like electricity, irrigation quarrying, public services and transport; even though the emphasis leaned towards transport and away from the other sectors mentioned. A 16-17% growth in investment, including a 30% increase in investment in business premises has been recorded in trade and services. Although there continued to be a decline in the share of agriculture in total gross investment in the economy, investment grew by 9% in absolute terms, largely spurred on by a 23% expansion of investment in agriculture equipment. Housing construction had 12% more invested in it in 1964, not so much owing to increase demand, as to fears of impending new taxes and limitation of building.

There was a rise of close to 11% in the total consumption in real terms during 1964 and per capita personal consumption by under 7%, as in 1963. The undesirable trend towards a rapid rise in consumption, evident in previous years, remains unaltered. Since at current prices consumption rose by 16% and disposable income by 13%, there was evidently a fall in the rate of saving in the private sector of the economy. Once again a swift advance in the standard of living was indicated in consumption patterns. Though fruit consumption increased, expenditure on food, especially bread and staple items, declined significantly. There was a continuing increase in the outlay on furniture and household equipment, health, education and recreation. The greatest proof of altered living standards was the rapid expansion of expenditure on transport (including private cars) and personal services of all kinds, which occurred during 1964. The changing composition if purchased durable goods demonstrated the progressive affluence of large sectors of the public. On the one hand increased purchase of automobiles and television sets were registered, a point of saturation was rapidly being approached for items like the first household radio, gas cookers, and electric refrigerators.

QUESTION 1.

It is possible to to conclude from this passage, that the people of the country were

- ○ A. spending more money than they earn
- ○ B. investing and consuming at an accelerated pace
- ○ C. saving more money than previously
- ○ D. spending their money wisely
- ○ E. lacking in necessities

QUESTION 2.

According to the author the trend towards a rapid rise in consumption is "undesirable" as:

- ○ A. there was an increase in the expenditure on frills and luxuries
- ○ B. the people were affluent
- ○ C. there was a rise in the standard of living
- ○ D. people were eating less
- ○ E. people were saving less

QUESTION 3.

It is possible to conclude that the United States is not the discussed country as:

- ○ A. there was a decline in the expenditures for food
- ○ B. From the statement that the saturation point was rapidly being approached for first household radios
- ○ C. there is no mention of military expenditures
- ○ D. the people were affluent
- ○ E. the people were not saving their money

QUESTION 4.

The area, which saw the greatest expenditure of investment funds was

- ○ A. The public sector
- ○ B. Business premises
- ○ C. Housing construction
- ○ D. Agricultural equipment
- ○ E. A field which cannot be determined

COMPREHENSION PASSAGE 2

Visual recognition involves storing and retrieving memories. Neural activity, triggered by the eye, forms an image in the brains memory system that constitutes an internal representation of the viewed object. When an object is encountered again, it is matched with its internal representation and thereby recognized. Controversy surrounds the question of whether recognition is a parallel, one-step process or a serial, step-by-step one. Psychologists of the Gestalt school maintain that object are recognized as wholes in a parallel procedure, the internal representation is matched with the retinal image in a single operation. Other psychologists have proposed that internal representation features are matched serially with an object's features. Although some experiments show that, as an object become familiar, its internal representation becomes more familiar, its internal representation becomes more holistic and the recognition process correspondingly more parallel, the weight of evidence seems to support the serial hypothesis, at least for objects that are not notably simple and familiar.

QUESTION 5.

It can be inferred from the passage that the matching process in visual recognition is

○ A. Not a natural activity.
○ B. Not possible when an object is viewed for the very first time.
○ C. Not possible if a feature of a familiar object is changed in same way.
○ D. Only possible when a retinal image is received in the brain as a unitary whole.
○ E. Now fully understood as a combination of the serial and parallel process.

QUESTION 6.

In terms of its tone and form, the passage can best be characterized as

○ A.   A biased exposition
○ B.   A speculative study
○ C.   A dispassionate presentation
○ D.   An indignant denial
○ E.   A dogmatic explanation.

QUESTION 7.

The author is primarily concerned with

○ A. Explaining how the brain receives images
○ B. Synthesizing hypotheses of visual recognition
○ C. Examining the evidence supporting the serial recognition hypothesis

○ D. Discussing visual recognition and some hypotheses proposed to explain it.

○ E. Reporting on recent experiments dealing with memory systems and their relationship to neural activity.

Answer : B

QUESTION 8.

According to the passage, Gestalt psychologists make which of the following suppositions about visual recognition?

I A retinal image is in exactly the same form as its internal representation

II An object is recognized as a whole without any need for analysis into component parts.

III The matching of an object with its internal representation occurs in only one step

    ○ A.   II only
    ○ B.   III only
    ○ C.   I and III only
    ○ D.   II and III only
    ○ E.   I, II and III

Choose from the letters labelled A – E the one that is related to the fifth word in the same way as the words of the first two pairs are related

Example: slow,saw: blow; bow; flew,_____

    ○ A.   Ewe
    ○ B.   Few
    ○ C.   Low

D. Foe

E. Leaf

The Answer is "few", we therefore shade space "B"

QUESTION 9.

Telegram, let, derive, red; marble,_____

A. Mar

B. Meal

C. Real

D. Ram

E. Man

QUESTION 10.

Last, salt; part,rapt; sent._____

A. Tens

B. Nest

C. Test

D. Next

E. Text

QUESTION 11.

Midrib, bird; trolley,yell, cinema, _____

A. Aim

B. Mean

C. Amen

○ D.   Earn

○ E.   Main

In each of the following problems; there are some sentences, read them carefully and decide which one should come first, which second and which third, etc.

QUESTION 12.

1. The lion goes in search of food for his family

2. the lioness has just had three cubs

3. she guards them day and night

    ○ A.   3,2,1
    ○ B.   2,1,3
    ○ C.   2,3,1
    ○ D.   1,3,2
    ○ E.   1,2,3

QUESTION 13.

1. Prices of foodstuff shot up

2. famers complained bitterly of poor harvest

3. the rains started late this year

    ○ A.   3,1,2
    ○ B.   1,2,3
    ○ C.   2,3,1
    ○ D.   1,3,2

QUESTION 14.

1. Mrs Adebayo had a stomach ulcer

2. she bought some drugs to cure it

3. she went in to see the specialist

- A.   3,1,2
- B.   1,2,3
- C.   2,3,1
- D.   1,3,2

QUESTION 15

Which of the following word is the opposite of "Probity"?

- A. Turpitude
- B. Voracious
- C. Devotion
- D. Dignity

QUESTION 16

What is the opposite of the word "Taciturn"

- A. Talkative
- B. Unresponsive
- C. Irresponsible
- D. Cowardice

QUESTION 17

FICTITIOUS is to PSEUDONYM as BACKWARD is to.

- ○ A. ANTONYM
- ○ B. PALINDROME
- ○ C. NAMESAKE
- ○ D. EPONYM
- ○ E. ANANYM

QUESTION 18

Select the pair which has the same relationship.

PAIN : SEDATIVE

- ○ A. comfort : stimulant
- ○ B. grief : consolation
- ○ C. trance : narcotic
- ○ D. ache : extraction

QUESTION 19

AFTER : BEFORE

- ○ A. first : second
- ○ B. present : past
- ○ C. successor : predecessor
- ○ D. contemporary : historic

QUESTION 20

Choose the correct meaning of the proverb/idiom.

To catch a tarter is to _____

○ A. trap a wanted criminal with great difficulty
○ B. catch a dangerous person
○ C. meet with disaster
○ D. deal with a person who is more than one's match

ANSWER KEYS   PROBLEM SOLVING

1	B	11	D	21	B
2	C	12	B	22	D
3	C	13	C	23	D
4	E	14	D	24	A
5	A	15	E	25	A
6	C	16	C	26	B
7	A	17	C	27	A
8	C	18	E	28	D
9	C	19	D	29	A
10	B	20	C	30	A

ANSWER KEYS   VERBAL REASONING

1	B	11	C
2	E	12	E
3	B	13	E
4	E	14	D
5	A	15	A
6	C	16	A
7	B	17	E
8	D	18	B
9	D	19	B
10	B	20	D

PROBLEMS / EXPLANATIONS

QUESTION 1.

Dan had an average of 72 on his first four math tests. After taking the next test, his average dropped to 70. Which of the following is his most recent test grade?

  O A. 60
  O B. 62
  O C. 64
  O D. 66
  O E. 68

The correct Answer is B.

[4(72) + x] / 5 = 70

Simplifying that expression, x= 62.

QUESTION 2.

What is the average of the first 15 positive integers?

  O A   7
  O B   7.5
  O C   8
  O D   8.5
  O E   9

The correct Answer is C

Positive integers begin with 1. The first 15 positive integers are:

(1+2+3+4+5+6+7+8+9+10+11+12+13+14+15) / 15 = 8.

Speed Booster:

You may not necessarily need to solve anything here. Just understanding the principle that average means the middle number. 8 lies at the middle. (1-7), 8 , (9-15)

QUESTION 3.

David had d dollars. After a shopping trip, he returned with c cents. How many cents did he spend?

- A $d - c$
- B $c - d$
- C $100d - c$
- D $100c - d$
- E $d - 100c$

The correct Answer is C.

Since the Answer is to be in cents, change d dollars to cents by multiplying it by 100 and subtract from that the c cents he spent.

QUESTION 4.

A certain copy machine produces 13 copies every 10 seconds. If the machine operates without interruption, how many copies will it produce in an hour?

- A 78

○ B 468

○ C 1800

○ D 2808

○ E 4680

The correct Answer is E.

The question stem gives information about copies per 10 seconds, but you must Answer in terms of copies per hour.

To solve the problem, first convert copies per 10 seconds to copies per minute.

This can be done with a proportion:

13 copies / 10 seconds = x copies / 60 seconds

Solve by cross-multiplication: $13 \times 60 = 10x$

Solve for x:

x = 78

The correct Answer, however, is not 78. A machine that produces 78 copies per minute produces 60 times that in an hour: $60 \times 78 = 4680$.

QUESTION 5.

A suit marked at $80 is sold for $68. What is the rate of discount?

○ A 15%

○ B 12%

○ C 17 $11/17$ %

○ D 20%

○ E 24%

The correct Answer is A.

The amount of discount is $12. Rate of discount is figured on the original price.

QUESTION 6.

What was the original price of a radio that sold for $70 during a 20%-off sale?

- ○ A $84
- ○ B $56
- ○ C $87.50
- ○ D $92
- ○ E $90

The correct Answer is C.

20% of the original price has been taken off, so the new price of $70 represents 80% of the original price.

Mathematically speaking, $70 = 80% of x (If x is the original price)

70 = 80 x X

7000 = 80x

$87.50 = x

QUESTION 7.

What is 40% of 16?

- A. 6.4
- B. 64
- C. 640
- D. 0.64
- E. 0.064

The correct Answer is A

40/100 x 16 = 640/100 = 6.4

Speed Booster:

You don't have to write down or solve anything… Just look through the options. We know that 50% or half of 16 is 8, so the closest lower option to that is definitely 6.4

QUESTION 8.

What is the number of triangles in an octagon?

- A.326
- B.120
- C. 56
- D.180
- E. cannot be determined

The correct Answer is option [C]

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The average of 5 quantities is 6. The average of 3 of them Is 8. What is the average of the remaining two numbers?

○ A.6.5
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The correct Answer is option[C]

QUESTION 10.

The price of a product is reduced by 30%. By what percentage should it be increased to make it 100%?

○ A.38.758%
○ B.42.857%
○ C.62%
○ D.70%
○ E. None of the above

The correct Answer is option[B]

QUESTION 11.

If you take 29 oranges from 60 oranges, how many oranges will you have?

○ A. 89
○ B. 60

○ C. 31
○ D. 29
○ E. None of the above

The correct Answer is option[D]

QUESTION 12.

If a class begins at 2:21pm and ends at 4:36pm the same afternoon, how many minutes long is the class?

○ A. 75minutes
○ B. 135minutes
○ C. 150minutes
○ D. 215minutes
○ E. 285minutes

The correct Answer is option [B]

QUESTION 13.

If two typist can type two pages in two minutes, how many typists will it take to type 18 pages in six minutes?

○ A. 3
○ B. 4
○ C. 6
○ D. 12
○ E. 36

Suppose rate of each typist is R

So rate of two typist will be 2R

time = 2mins

work = 2pages

using : Rate * Time = Work,we have:

2R * 2 = 2 => R = 0.5 pages/min

Suppose x number of typist are required to finish 18pages in 6mins

So, rate of R typist will be xR

Time = 6mins

work = 18pages

Using Rate*time= work we have

xR * 6 = 18

=> xR = 3

we know that R =0.5

=> x = 6 So, Answer will be C

QUESTION 14.

The enrollments at College X and College Y both grew by 8 percent from 1980 to 1985. If the enrollment at College X grew by 800 and the enrollment at College Y grew by 840, the enrollment at College Y was how much greater than the enrollment at College X in 1985?

○ A 400
○ B 460

○ C 500

○ D 540

○ E 580

The correct Answer is (D).

QUESTION 15

A box is filled with cookies ranging in weight from 3.2 grams to 3.8 grams. How many cookies are in the box?

(1) The gross weight of the box and the cookies is 130 grams.

(2) The net weight of the cookies is 112 grams.

(A) statement 1 alone is sufficient to Answer the question, but statement 2 alone is not sufficient

(B) statement 2 alone is sufficient to Answer the question, but statement 1 alone is not sufficient

(C) both statements together are needed to Answer the question, but neither statement alone is sufficient

(D) either statement by itself is sufficient to Answer the question

(E) not enough facts are given to Answer the question

The correct Answer is (E).

The original sentence suffers from two defects.

First, the phrasing is very awkward. Additionally, the "before" does not pinpoint the time frame intended. Does it mean before the moment at which the speaker is speaking or the time when the museum will open its new wing?

Only (E), with its change in phrasing and punctuation, corrects these errors.

QUESTION 16

What is 200% of 0.010?

  ○ A 0.0002
  ○ B 0.0005
  ○ C 0.020
  ○ D 0.050
  ○ E 0.20

The correct Answer is [C]

QUESTION 17

If 3/p = 6 and 3/q = 15 then p - q = ?

  ○ A.   1/3
  ○ B.   2/5
  ○ C.   3/10
  ○ D.   5/6
  ○ E.   None of the above

The correct Answer is C

QUESTION 18

Which of the following is the greatest ?

  ○ A.   40% of 30

B.   3/5 of 25
C.   6.5% of 200
D.   Five more than the square of 3
E.   1/2-4

The correct Answer is E

QUESTION 19

If the value of XYZ Company stock drops from $25 per share to $21 per share, what is the percent of the decrease?

A.   4
B.   8
C.   12
D.   16
E.   20

The correct Answer is D

QUESTION 20

What is the greatest value of a positive integer n such that 3n is a factor of 1815?

A.   15
B.   18
C.   30
D.   33
E.   45

The correct Answer is C

SECTION-1:

QUANTITATIVE ABILITY

Directions: There are 20 questions in this section, solve each of this quantitative ability problem and indicate the best of the Answer choices given.

Numbers: All numbers used are real numbers.

Figures: A figure accompanying this problem-solving question is intended to provide information useful in solving the problem.

Terms used in this test section are only for educational purposes and have no real life meaning. They do not represent Access bank's operational data.

1. A box contains 90 mts each of 100 gms and 100 bolts each of 150 gms. If the entire box weighs 35.5 kg., then the weight of the empty box is :

    ○ A.   10 kg
    ○ B.   10.5 kg
    ○ C.   11 kg
    ○ D.   11.5 kg
    ○ E.   None of the above

2.If the radius of a circle is increased by 20% then the area is increased by :

    ○ A.   44%
    ○ B.   120%
    ○ C.   144%
    ○ D.   40%
    ○ E.   None of the above

3Tom, Dick and Harry went for lunch to a restaurant. Tom had $100 with him, Dick had $60 and Harry had $409. They got a bill for $104 and decided to give a tip of $16. They further decided to share the total expenses in the ratio of the amounts of money each carried. The amount of money which Tom paid more than what Harry paid is

    ○ A.   120
    ○ B.   200
    ○ C.   60
    ○ D.   24
    ○ E.   36

4.A motorcycle stunts man belonging to a fair, rides over the vertical walls of a circular well at an average speed of 54 kph for 5 minutes. If the radius of the well is 5 meters then the distance traveled is:

- A.   2.5 kms
- B.   3.5 kms
- C.   4.5 kms
- D.   5.5 kms
- E.   None of the above

5.A box contains 90 mts each of 100 gms and 100 bolts each of 150 gms. If the entire box weighs 35.5 kg., then the weight of the empty box is :

- A.   10 kg
- B.   10.5 kg
- C.   11 kg
- D.   11.5 kg
- E.   None of the above

6.A zookeeper counted the heads of the animals in a zoo and found it to be 80. When he counted the legs of the animals he found it to be 260. If the zoo had either pigeons or horses, how many horses were there in the zoo?

- A.   40
- B.   30
- C.   50
- D.   60

7. A runs 13/5 times as fast as B. If A gives a start of 240m, how far must the post be so that A and B might reach at the same time.

    ○ A.   390 m

    ○ B.   330 m

    ○ C.   600 m

    ○ D.   720 m

8. A gives B a start of 30 seconds in a km race and still beats him by 20 m. However, when he gives B a start of 35 seconds, they finish the race in a dead heat. How long does A take to run the km?

    ○ A.   250 seconds

    ○ B.   285 seconds

    ○ C.   220 seconds

    ○ D.   215 seconds

9. A father is three times as old as his son. After fifteen years the father will be twice as old as his son's age at that time. Hence the father's present age is

    ○ A.   36

    ○ B.   42

    ○ C.   45

    ○ D.   48

    ○ E.   None of the above

10. A portion of $7200 is invested at a 4% annual return, while the remainder is invested at a 5% annual return. If the annual income from

both portions is the same, what is the total income from the two investments?

- ○ A. $160
- ○ B. $320
- ○ C. $400
- ○ D. $720
- ○ E. $1,600

11.   The sum of the first 100 numbers, 1 to 100 is divisible by

- ○ A.   2, 4 and 8
- ○ B.   2 and 4
- ○ C.   2 only
- ○ D.   None of these

12.   There are 12 yes or no questions. How many ways can these be Answered?

- ○ A.   1024
- ○ B.   2048
- ○ C.   4096
- ○ D.   144

13.   If r = (3p + q)/2 and s = p - q, for which of the following values of p would r2 = s2?

- ○ A.   1q/5
- ○ B.   10 - 3q/2
- ○ C.   q - 1
- ○ D.   3q

14.   How many ways can 4 prizes be given away to 3 boys, if each boy is eligible for all the prizes?

○ A.   256
○ B.   12
○ C.   81
○ D.   None of these

15.   A team of 8 students goes on an excursion, in two cars, of which one can seat 5 and the other only 4. In how many ways can they travel?

○ A.   9
○ B.   26
○ C.   126
○ D.   3920

16.   How many number of times will the digit '7' be written when listing the integers from 1 to 1000?

○ A.   271
○ B.   300
○ C.   252
○ D.   304

17.   How many five digit numbers can be formed using the digits 0, 1, 2, 3, 4 and 5 which are divisible by 3, without repeating the digits?

○ A.   15

B. 96
C. 216
D. 120

18. A trader makes a profit equal to the selling price of 75 articles when he sold 100 of the articles. What % profit did he make in the transaction?

A. 33.33%
B. 75%
C. 300%
D. 150%

19. The average of 5 quantities is 10 and the average of 3 of them is 9. What is the average of the remaining 2?

A. 11
B. 12
C. 11.5
D. 12.5

20. Average cost of 5 apples and 4 mangoes is Rs. 36. The average cost of 7 apples and 8 mangoes is Rs. 48. Find the total cost of 24 apples and 24 mangoes.

A. 1044
B. 2088
C. 720
D. 324

SECTION-2:

VERBAL ABILITY

Directions: There are 20 questions in this section, solve each of this Verbal ability problem and indicate the best of the Answer choices given.

Figures: Terms used in this test section are only for educational purposes and have no real life meaning. They do not represent Access bank's operational data.

In any country, the wages commanded by the laborers who have comparable skills but who work in various industries are determined by the productivity of the least productive unit of labour, i.e. the unit of labour which works in the industry which has catatest economic disadvantages. We will represent the various opportunities of employment in a country like united states by Symbols. A standing for a group of industries in which we have exceptional economic advantage over foreign countries; B for a group in which our advantages are less; E , one in which they are still less; D, the group of industries in which they are the least of all.

When our population is so small that all our labour can be engaged in the group represented by A, productivity of labour and (therefore wages) will be at their maximum. when our population increases so that some of the labour will have to work in group B, the wages of all labour must decline to the level of productivity in that group. But no employer, without government aid, will yet be able to afford to hire labour to exploit the opportunities, represented by E and D, unless there is a further increase in population.

But suppose that the political party in power holds the belief that we should produce everything that we consume, that the opportunities represented by E and D should also be exploited. The commodities, that the industries composing C and D will produce have been hitherto obtained from abroad in exchange for commodities produce by A and B. The government now renders this difficult by imposing high duties upon the former class of commodities. This means that workers in A and B must pay higher prices for what they buy, but do not receive higher prices for what they sell.

After the duty has gone into effect and the prices of commodities that can be produced by C and D have risch sufficiently enterprises will be able to

hire labour at the wages prevailing in A and B and establish industries in C and D. So far as the remaining labours in A and B buy the products of C and D ,the difference between the price which they pay for these product and the price they would pay it they were permitted to import those products duty-free is a tax paid not to the government, but to the producers in C and D, to enable the later to remain in business. It is on uncompensated deduction from the natural earnings of the labourers in A and B. nor are the workers in C and D paid as much, estimated in purchasing power as they would have received if they had been allowed to remain in A and B under the earlier conditions.

1.   The authors main point is that

- ○ A.   The government ought to subsidize C and D
- ○ B.   Wages ought to be independent of international trade
- ○ C.   It is impossible to attain national self sufficiency
- ○ D.   The varying productivity of the various industries leads tot he inequalities in wages of workers in these industries
- ○ E.   A policy that draws labour from the fields of cater natural productiveness to fields of lower natural productiveness tends to redirect purchasing power.

Answer : E

2.   No employer, without government aid will yet be able to afford to hire labour to exploit the opportunities represented by C and D because

- ○ A.   The population has increased
- ○ B.   Productivity of labour is not at the maximum
- ○ C.   Productivity would drop correspondingly with the wages of labour

○ D.   We cannot produce everything we consume
○ E.   Enterprises would have to pay wages equivalent to those obtained by workers in A and B while producing under cater disadvantages.

Answer : E

3.   When C and D are established, workers in these industries

○ A.   Receives wages equal to those workers in A and B
○ B.   Receives higher wages than do the workers in A and B
○ C.   Are not affected so adversely by the levying of duties as are workers in A and B
○ D.   Must be paid by government funds collected from the duties on imports.
○ E.   Receive lower wages than do the workers in A and B.

Answer : A

4.   We cannot exploit C and D unless

○ A.The producers in E and D are compensated for the disadvantages under which they operate.
○ B.We export large quantities of commodities produced by A and B
○ C.The prices of commodities produced by A and B are raised
○ D.The productivity of labour in all industries is increased
○ E.We allow duties to be paid to the producers in C and D rather than to the government.

Answer : A

MARK HUGHES is a master of the fine art of survival. His Los Angeles-based Herbalife International Inc. is a pyramid outfit that peddles weight-loss and nutrition concoctions of dubious value. Bad publicity and regulatory crackdowns hurt his U.S. business in the late 1980s. But Hughes, 41, continues to enjoy a luxurious lifestyle in a $20 million Beverly Hills mansion. He has been sharing the pad and a yacht with his third wife, a former Miss Petite U.S.A. He can finance this lavish lifestyle just on his salary and bonus, which last year came to $7.3 million.

He survived his troubles in the U.S. by moving overseas, where regulators are less zealous and consumers even more naive, at least initially. Today 77% of Herbalife retail sales derive from overseas. Its new prowling grounds: Asia and Russia. Last year Herbalife's net earnings doubled, to $45 million, on net sales of $632 million. Based on Herbalife's Nasdaq-traded stock, the company has a market capitalization of $790 million, making Hughes 58% worth $454 million.

There's a worm, though, in Hughes apple. Foreigners aren't stupid. In the end they know when they've been had. In France, for instance, retail sales rose to $97 million by 1993 and then plunged to $12 million last year. In Germany sales hit $159 million in 1994 and have since dropped to $54 million.

Perhaps aware that the world may not provide an infinite supply of suckers, Hughes wanted to unload some of his shares. But in March, after Herbalife's stock collapsed, he put off a plan to dump about a third of his holdings on the public.

Contributing to Hughes' woes, Herbalife's chief counsel and legal attack dog, David Addis, quit in January. Before packing up, he reportedly bellowed at Hughes, "I can't protect you anymore." Addis, who says he wants to spend more time with his family, chuckles and claims attorney-client privilege.

Trouble on the home front, too. On a recent conference call with distributors, Hughes revealed he's divorcing his wife, Suzan, whose beaming and perky image adorns much of Herbalife's literature.

Meanwhile, in a lawsuit that's been quietly moving through Arizona's Superior Court, former Herbalife distributor Daniel Fallow of Sandpoint, Idaho charges that Herbalife arbitrarily withholds payment to distributors and marks up its products over seven times the cost of manufacturing. Fallow also claims Hughes wanted to use the Russian mafia to gain entry to that nation's market.

Fallow himself is no angel, but his lawsuit, which was posted on the Internet, brought out other complaints. Randy Cox of Lewiston, Idaho says Herbalife "destroyed my business" after he and his wife complained to the company that they were being cheated out of their money by higher-ups in the pyramid organization.

Will Hughes survive again? Don't count on it this time.

1.   Herbalife Inc is based in:

   ○ A.   Los Angeles
   ○ B.   Columbus
   ○ C.   New York
   ○ D.   Austin

Answer : A

2.   Daniel Fallow:

   ○ A.   Was a former attorney for Hughes
   ○ B.   Was a former distributor of Herbalife
   ○ C.   Co-founded Herbalife

○ D.   Ran Herbalife's German unit

Answer : B

3.   Which of the following countries is mentioned where Hughes operated Herbalife?

○ A.   India
○ B.   China
○ C.   Germany
○ D.   Ukraine

Answer : C

4. The complaint of Randy Cox of Lewiston, Idaho, against Herbalife was:

○ A.   The company did not pay them their dues
○ B.   The products supplied by Hughes were inferior
○ C.   Their higher-ups in the pyramid cheated them
○ D.   Hughes had connections with the Russian mafia

Answer : C

5.   Which of the following countries is NOT mentioned in the passage?

○ A.   Russia
○ B.   USA
○ C.   France
○ D.   Italy

Answer : D

6.   In the year in which Hughes' salary and bonuses came to US$ 7.3 million, what was the retail sales for Herbalife in France?

  ○ A. $12 million
  ○ B. $159 million
  ○ C. $54 million
  ○ D. $97 million

Answer :A

7.   At the time when this article was written, if Herbalife had had a market capitalisation of $ 1 billion, what would have been Hughes' share?

  ○ A. $420 million
  ○ B. $580 million
  ○ C. $125 million
  ○ D. $500 million

Answer : B

ANSWER KEYS   PROBLEM SOLVING

1	D		11	C
2	A		12	C
3	E		13	A
4	C		14	C
5	D		15	C
6	C		16	B
7	A		17	C
8	D		18	C
9	C		19	C
10	B		20	B

ANSWER KEYS   VERBAL REASONING

1	B		11
2	E		12
3	B		13
4	E		14
5	A		15
6	C		16
7	B		17
8	D		18
9			19
10			20

SECTION-1:

QUANTITATIVE ABILITY

Directions: There are 20 questions in this section, solve each of this quantitative ability problem and indicate the best of the Answer choices given.

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1.   A trader professes to sell his goods at a loss of 8% but weights 900 grams in place of a kg weight. Find his real loss or gain per cent.

   A.   2% loss
   B.   2.22% gain
   C.   2% gain
   D.   None of these

2.   If apples are bought at the rate of 30 for a rupee. How many apples must be sold for a rupee so as to gain 20%?

   A.   28
   B.   25
   C.   20
   D.   22

3.   A merchant marks his goods in such a way that the profit on sale of 50 articles is equal to the selling price of 25 articles. What is his profit margin?

   A.   25%
   B.   50%
   C.   100%
   D.   66.67%

4.   A predator is chasing its prey. The predator takes 4 leaps for every 6 leaps of the prey and the predator covers as much distance in 2 leaps as 3 leaps of the prey. Will the predator succeed in getting its food?

   A.   Yes
   B.   In the 6th leap

O C.   Never
O D.   Cannot determine

5.   Two boys begin together to write out a booklet containing 535 lines. The first boy starts with the first line, writing at the rate of 100 lines an hour; and the second starts with the last line then writes line 534 and so on, backward proceeding at the rate of 50 lines an hour. At what line will they meet?

O A.   356
O B.   277
O C.   357
O D.   267

6.   A gives B a start of 30 seconds in a km race and still beats him by 20 m. However, when he gives B a start of 35 seconds, they finish the race in a dead heat. How long does A take to run the km?

O A.   250 seconds
O B.   285 seconds
O C.   220 seconds
O D.   215 seconds

7.   A man and a woman 81 miles apart from each other, start travelling towards each other at the same time. If the man covers 5 miles per hour to the women's 4 miles per hour, how far will the woman have travelled when they meet?

O A.   27
O B.   36

C. 45
D. None of these.

8. The speed of a motor boat itself is 20 km/h and the rate of flow of the river is 4 km/h. Moving with the stream the boat went 120 km. What distance will the boat cover during the same time going against the stream?

A. 80 km
B. 180 km
C. 60 km
D. 100 km

9. A can give B 20 points, A can give C 32 points and B can give C 15 points. How many points make the game?

A. 150
B. 200
C. 100
D. 170

10. The average age of a group of 12 students is 20years. If 4 more students join the group, the average age increases by 1 year. The average age of the new students is

A. 24
B. 26
C. 23
D. 22

11.   I travel the first part of my journey at 40 kmph and the second part at 60 kmph and cover the total distance of 240 km to my destination in 5 hours. How long did the first part of my journey last?

    ○ A.   4 hours
    ○ B.   2 hours
    ○ C.   3 hours
    ○ D.   2 hours 24 minutes

12.   A passenger train covers the distance between stations X and Y, 50 minutes faster than a goods train. Find this distance if the average speed of the passenger train is 60 kmph and that of goods train is 20 kmph.

    ○ A.   20 kms
    ○ B.   25 kms
    ○ C.   45 kms
    ○ D.   40 kms

13.   A train travels at an average speed of 90 km/hr without any stoppages. However, its average speed decrease to 60km/hr on account of stoppages. On an average, how many minutes per hour does the train stop?

    ○ A.   12 minutes
    ○ B.   18 minutes
    ○ C.   24 minutes
    ○ D.   20 minutes

14. Average cost of 5 apples and 4 mangoes is Rs. 36. The average cost of 7 apples and 8 mangoes is Rs. 48. Find the total cost of 24 apples and 24 mangoes.

    A.   1044
    B.   2088
    C.   720
    D.   324

15. A trader makes a profit equal to the selling price of 75 articles when he sold 100 of the articles. What % profit did he make in the transaction?

    A.   33.33%
    B.   75%
    C.   300%
    D.   150%

16. A trader professes to sell his goods at a loss of 8% but weights 900 grams in place of a kg weight. Find his real loss or gain per cent.

    A.   2% loss
    B.   2.22% gain
    C.   2% gain
    D.   None of these

17. A group of workers can do a piece of work in 24 days. However as 7 of them were absent it took 30 days to complete the work. How many people actually worked on the job to complete it?

    A.   35
    B.   30

C.   28
D.   42

18.   If apples are bought at the rate of 30 for a rupee. How many apples must be sold for a rupee so as to gain 20%?

A.   28
B.   25
C.   20
D.   22

19.   A merchant marks his goods in such a way that the profit on sale of 50 articles is equal to the selling price of 25 articles. What is his profit margin?

A.   25%
B.   50%
C.   100%
D.   66.67%

20.   An empty swimming pool can be filled to capacity through an inlet pipe in 3 hours, and it can be completely drained by a drainpipe in 6 hours. If both pipes are fully open at the same time, in how many hours will the empty pool be filled to capacity?

A.   4
B.   4.5
C.   5
D.   5.5
E.   6

SECTION-2:

VERBAL ABILITY

Directions: There are 20 questions in this section, solve each of this Verbal ability problem and indicate the best of the Answer choices given.

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According to Albert Einstein the non-mathematician, is seized by a mysterious shuddering when he hears of 'four-dimensional' things, he is seized by a feeling, which is very similar to the thoughts awakened by the occult. And at the same time the statement that the world in which we live is a four-dimensional space - time continuum is quite a common place statement.

This might lead to an argument regarding the use of the term "commonplace" by Einstein. Yet the difficulty lies more in the wording than the ideas. Einstein's concept of the universe as a four-dimensional space-time continuum becomes plain and clear, when what he means by "continuum" becomes clear. A continuum is something that is continuous, A ruler, for example, is a one-dimensional space continuum. Most rulers are divided into inches and fractions, scaled down to one-sixteenth of an inch.

Will it be possible to conceive a ruler, which is calibrated to a millionth or billionth of an inch. In theory there is no reason why the steps from point to point should not be even smaller. What distinguishes a continuum is the fact that the space between any two points can be sub-divided into an infinite number of smaller divisions.

A railroad track is a one-dimensional space continuum and on it the engineer of a train can describe his position at any time by citing a single co-ordinate point - i.e., a station or a milestone. A sea captain, however, has to worry about two dimensions. The surface of the sea is a two-dimensional continuum and the co-ordinate points by which sailor fixes his positions in his two dimensional continuum are latitude and longitude. An airplane pilot guides his plane through a three - dimensional continuum, hence he has to consider not only latitude and longitude, but also his height above the ground. The continuum of an airplane pilot

constitutes space as we perceive it. In other words, the space of our world is a three-dimensional continuum.

Just indicating its position in space is not enough while describing any physical event, which involves motion. How position changes in time also needs to be mentioned. Thus to give an accurate picture of the operation of a New York - Chicago express, one must mention not only that it goes from New - York to Albany to Syracuse to Cleveland to Toledo to Chicago, but also the times at which it touches each of those points. This can be done either by means of a timetable or a visual chart. If the miles between New York and Chicago are plotted horizontally on a piece of ruled paper and the hours and minutes are plotted vertically, then a diagonal line properly drawn across the page illustrates the progress of the train in two - dimensional space - time continuum. This type of graphic representation is familiar to most newspaper readers; a stock market chart, for example, pictures financial events in a two - dimensional dollar - time continuum. Similarly for the best picturization of the flight of an airplane from New York to Los Angeles a four - dimensional space - time continuum is essential. The latitude, longitude and altitude will only make sense to the traffic manager of the airline if the time co - ordinate is also mentioned. Therefore time is the fourth dimension. If a flight has to be looked at, perceived as a whole, it wouldn't work if it is broken down into a series of disconnected take - offs, climbs, glides, and landing, it needs to be looked at and perceived as a continuous four - dimensional space - time continuum curve.

1.   In order to explain a difficult topic, the author use

   A.   Simply phrased definition's
   B.   An incessant metaphor
   C.   A plain writing style
   D.   Familiar images

Answer : D

2. The significant feature of a continuum, according to the passage, revolves around

   O A.   The divisibility of the interval between any two points.
   O B.   An ordinary ruler's caliber for marking
   O C.   Its unending curve
   O D.   Its lucid from providing comprehensibility to the non - scientists as well
   O E.   Its variety of co - ordinates.

Answer : A

3.   The purpose of this passage is to highlight the point that

   O A.   Plots and sea captains have something in common
   O B.   Stock market charts may be helpful to physicists
   O C.   The fourth dimension is time.
   O D.   Non - mathematician's are often afraid of the commonplace
   O E.   There is a marked quality to distance

Answer : C

4.   According to the passage, an airlines traffic manager depends upon all of the following EXCEPT

   O A.   latitude
   O B.   altitude
   O C.   the time co - ordinate

    ○ D.   longitude

    ○ E.   the continuous curve in co four

Answer : E

5.   The underlying tone of this selection is

    ○ A.   persuasive

    ○ B.   deferential

    ○ C.   candid

    ○ D.   instructive

    ○ E.   gently condescending

Answer : D

6.   According to the author if on wishes portray a physical event in which motion plays a role - one has to

    ○ A.   Make use of a time-table

    ○ B.   Indicate how position changes in time

    ○ C.   Be conversant with the scientist's theories

    ○ D.   Describe it graphically

    ○ E.   Be aware of altitude, latitude and longitude

Answer : B

7.   The sea-captain's example has been cited in order to

    ○ A.   Help understand a two - dimensional continuum

    ○ B.   Set up a logical progression

    ○ C.   Simplify what ever is too elaborate

    ○ D.   Mitigate the gap between the engineer and pilot

From the 197 million square miles, which make up the surface of the globe, 71 per cent is covered by the interconnecting bodies of marine water; the Pacific Ocean alone covers half the Earth and averages near 14,000 feet in depth. The portions which rise above sea level are the continents-Eurasia, Africa; North America, South America, Australia, and Antarctica. The submerged borders of the continental masses are the continental shelves, beyond which lie the deep-sea basins.

The ocean are deepest not in the center but in some elongated furrows, or long narrow troughs, called deeps. These profound troughs have a peripheral arrangement, notably around the borders of the pacific and Indian oceAnswer. The position of the deeps, like the highest mountains, are of recent origin, since otherwise they would have been filled with waste from the lands. This is further strengthened by the observation that the deeps are quite often, where world-shaking earthquakes occur. To cite an example, the "tidal wave" that in April, 1946, caused widespread destruction along Pacific coasts resulted from a strong earthquake on the floor of the Aleutian Deep.

The topography of the ocean floors is none too well known, since in great areas the available soundings are hundreds or even thousands of miles apart. However, the floor of the Atlantic is becoming fairly well known as a result of special surveys since 1920. A broad, well-defined ridge-the Mid-Atlantic ridge-runs north and south between Africa and the two Americas and numerous other major irregularities diversify the Atlantic floor. Closely spaced soundings show that many parts of the oceanic floors are as rugged as mountainous regions of the continents. Use of the

recently perfected method of submarine topography. During world war II great strides were made in mapping submarine surfaces, particularly in many parts of the vast Pacific basin.

Most of the continents stand on an average of 2870 feet above sea level. North America averages 2300 feet; Europe averages only 1150 feet; and Asia, the highest of the larger continental subdivisions, averages 3200 feet. Mount Everest, which is the highest point in the globe, is 29,000 feet above the sea; and as the greatest known depth in the sea is over 35,000 feet, the maximum relief (that is, the difference in altitude between the lowest and highest points) exceeds 64,000 feet, or exceeds 12 miles. The continental masses and the deep-sea basins are relief features of the first order; the deeps, ridges, and volcanic cones that diversify the sea floor, as well as the plains, plateaus, and mountains of the continents, are relief features of the second order. The lands are unendingly subject to a complex of activities summarized in the term erosion, which first sculptures them in great detail and then tends to reduce them ultimately to sea level. The modeling of the landscape by weather, running water, and other agents is apparent to the keenly observant eye and causes thinking people to speculate on what must be the final result of the ceaseless wearing down of the lands. Much before there was any recognizable science as geology, Shakespeare wrote "the revolution of the times makes mountains level."

1. The peripheral furrows or deeps are found

   ○ A.   only in the pacific and Indian oceAnswer
   ○ B.   near earthquakes
   ○ C.   near the shore
   ○ D.   in the center of the ocean
   ○ E.   to be 14,000 feet in depth in the pacific.

Answer : C

2.   The largest ocean is the

  ○ A.   Atlantic
  ○ B.   pacific
  ○ C.   Aleutian deep
  ○ D.   arctic
  ○ E.   Indian.

Answer : B

3.   We may conclude from this passage that earth quakes

  ○ A.   Occur more frequently in newly formed land or sea formations
  ○ B.   Are caused by the weight of the water
  ○ C.   Cause erosion
  ○ D.   Occur in the deeps
  ○ E.   Will ultimately "make mountains level".

Answer : A

4.   The highest mountains are

  ○ A.   oldest
  ○ B.   in excess of 12 miles
  ○ C.   near the deeps
  ○ D.   relief features of the first order
  ○ E.   of recent origin.

Answer : E

5. The science of geology was started

   ○ A.   By the Greeks
   ○ B.   During world war II
   ○ C.   April 1946
   ○ D.   After 1600
   ○ E.   In 1920

Answer : D

6. The highest point on North America is

   ○ A.   2870 feet above sea level
   ○ B.   not mentioned in the passage
   ○ C.   higher than the highest point in Europe
   ○ D.   2300 feet above sea level
   ○ E.   in Mexico.

Answer : B

7. The deeps are subject to change caused by

   ○ A.   erosion
   ○ B.   soundings
   ○ C.   earthquakes
   ○ D.   waste
   ○ E.   weathering

Answer : C

8. The continental masses

    ○ A.   Rise above sea level
    ○ B.   Consist of six continents
    ○ C.   Are relief features of the second order
    ○ D.   Are partially submerged
    ○ E.   Comprise 29 per cent of the earth's surface.

Answer : D

ANSWER KEYS

PROBLEM SOLVING

1	B		11	C		21	
2	B		12	B		22	
3	C		13	D		23	
4	D		14	B		24	
5	C		15	C		25	
6	D		16	B		26	
7	B		17	C		27	
8	A		18	B		28	
9	D		19	E		29	
10	A		20	E		30	

VERBAL REASONING

1	B		11	
2	E		12	
3	B		13	
4	E		14	
5	A		15	
6	C		16	
7	B		17	
8	D		18	
9			19	
10			20	

Choose the word or phrase which is most nearly opposite in meaning to the word in capitals.

1.   ABOMINATE :

   ○ A.   loathe
   ○ B.   despise
   ○ C.   adore
   ○ D.   abhor
   ○ E.   attach

Answer : C

2.   OBSEQUIOUS :

   ○ A.   servile
   ○ B.   first
   ○ C.   fawning
   ○ D.   supercilious
   ○ E.   improper

Answer : D

3.   OROTUND :

   ○ A.   not resonant
   ○ B.   not reddish
   ○ C.   not eager
   ○ D.   pompous
   ○ E.   loud

Answer : A

4. RECANT :

   ○ A. entangle
   ○ B. rescue
   ○ C. fail
   ○ D. assert
   ○ E. predict

Answer : D

5. UPBRAID :

   ○ A. defer
   ○ B. vacillate
   ○ C. sever
   ○ D. conjoin
   ○ E. laud

Answer : E

6. PLENITUDE :

   ○ A. luxury
   ○ B. magnificence
   ○ C. richness
   ○ D. contentment
   ○ E. scarcity

Answer : E

7. SCURRILOUS :

   ○ A.   decent
   ○ B.   savage
   ○ C.   major
   ○ D.   volatile
   ○ E.   scabby

Answer : A

8. FULMINATION :

   ○ A.   praise
   ○ B.   repetition
   ○ C.   escape
   ○ D.   ratification
   ○ E.   addition

Answer : A

9. DISTEND

   ○ A.   deteriorate
   ○ B.   weaken
   ○ C.   constrict
   ○ D.   concentrate
   ○ E.   fold

Answer : C

10. TOUT

- A. cast aspersions on
- B. deny the relevance of
- C. placate
- D. withhold consent
- E. misrepresent

Answer : E

11. SQUALID

- A. fervid
- B. florid
- C. pristine
- D. extraneous
- E. abundant

Answer : C

12. SCOTCH

- A. renovate
- B. entrust
- C. unfasten
- D. encourage
- E. emphasize

Answer : D

13. PERFIDY

- A. tact
- B. generosity

C.   thoroughness

D.   loyalty

E.   gratitude

Answer : D

14.   OUTLANDISH

A.   conventional

B.   prolific

C.   unchanging

D.   trAnswerparent

E.   noticeable

Answer : A

15.   PLUMB

A.   reversed

B.   lofty

C.   horizontal

D.   thin

E.   light

Answer : C

16.   FERVID

A.   undistinguished

B.   unexpected

C.   stubborn

D.   restrained

○ E. discouraged

Answer : D

17. VACUITY

○ A. quality
○ B. certainty
○ C. plenitude
○ D. stability
○ E. incontinence

Answer : C

18. RAVEL

○ A. knit
○ B. omit
○ C. remain silent
○ D. measure
○ E. increase in value

Answer : A

19. PERSISTENCE

○ A. irrelevance
○ B. inconstancy
○ C. inequality
○ D. intemperance
○ E. incompetence.

Answer : B

20. SUBROSA

   ○ A.   openly
   ○ B.   fashionably
   ○ C.   under the owse
   ○ D.   simply
   ○ E.   clandestinely

Answer : A

21. PREFATORY :

   ○ A.   intelligent
   ○ B.   outstanding
   ○ C.   predatory
   ○ D.   conclusive
   ○ E.   magnificent

Answer : E

22. CONCILIATE :

   ○ A.   arrive
   ○ B.   appeal
   ○ C.   retaliate
   ○ D.   estrange
   ○ E.   lie

Answer : B

23. SUBSERVIENT :

   ○ A.   fawning
   ○ B.   obsequious
   ○ C.   miserly
   ○ D.   omnipresent
   ○ E.   haughty

Answer : C

24. VAUNTED :

   ○ A.   berated
   ○ B.   belittled
   ○ C.   lauded
   ○ D.   wicked
   ○ E.   worried

Answer : C

25. QUOTA :

   ○ A.   Anonymous remark
   ○ B.   decisive action
   ○ C.   debatable issue
   ○ D.   unlimited number
   ○ E.   irrelevant topic

Answer : D

26. CONTENTIOUS :

- A.   satisfied
- B.   pacific
- C.   hungry
- D.   bellicose
- E.   dissatisfied

Answer : D

27. OBLOQUY :

- A.   fame
- B.   name
- C.   inquiry
- D.   shame
- E.   collogue

Answer : D

28. PENCHANT :

- A.   distaste
- B.   scabbard
- C.   agreement
- D.   earring
- E.   beginning

Answer : C

29. BALEFUL :

- A. empty
- B. tasty
- C. gaudy
- D. full
- E. congenial

Answer : D

30. CURT :

- A. contractual
- B. precise
- C. honest
- D. voluble
- E. peremptory

Answer : D

31. ANIMOSITY

- A. parody
- B. retardation
- C. sincerity
- D. refutation
- E. canaraderie

Answer : E

32. INVETERATE

- A. uninvited
- B. illiterate

○ C.   cumulative
○ D.   beginning
○ E.   incompetent

Answer : D

33.   SCOTCH

○ A.   renovate
○ B.   encourage
○ C.   entrust
○ D.   ameliorate

Answer : B

34.   PREDILECTION

○ A.   ambiguity
○ B.   unwillingness to choose
○ C.   desire to please
○ D.   propensity to dislike
○ E.   stereotype

Answer : D

35.   CHOLERIC

○ A.   good-natured
○ B.   spoiled
○ C.   irascible
○ D.   immune

E.   idiotic.

Answer : A

36.   EXACERBATE

- ○ A.   contemplate
- ○ B.   bewilder
- ○ C.   reward
- ○ D.   better
- ○ E.   horify

Answer : D

37.   EQUANIMITY

- ○ A.   clamour
- ○ B.   volume
- ○ C.   disparity
- ○ D.   agitation
- ○ E.   caution

Answer : D

38.   ANIMADVERSION

- ○ A.   gullibility
- ○ B.   precision
- ○ C.   praise
- ○ D.   sobriety
- ○ E.   criticize

Answer : C

39. EXHUME

- A. enter
- B. fertilize
- C. inter
- D. decay
- E. clarify

Answer : C

40. CALLOW

- A. rustic
- B. crude
- C. exquisite
- D. experienced
- E. migratory

Answer : D

41. CUPIDITY

- A. generosity
- B. love
- C. anxiety
- D. entertainment
- E. tragedy.

Answer : A

42. ANIMOSITY

 - A. parody
 - B. retardation
 - C. sincerity
 - D. refutation
 - E. canaraderie

Answer : B

43. INVETERATE

 - A. uninvited
 - B. illiterate
 - C. cumulative
 - D. beginning
 - E. incompetent

Answer : A

44. SATURNINE :

 - A. quick â€" wilted
 - B. genial
 - C. heavy â€" handed
 - D. distinguished
 - E. devout

Answer : E

45. PERSPICACIOUS :

○ A.   Insufficiently precise
○ B.   of indefinite duration
○ C.   dull wilted
○ D.   lacking intrinsic value
○ E.   condemnatory

Answer : D

46.   INCARCERATE :

○ A.   summon
○ B.   assist
○ C.   liberate
○ D.   anticipate
○ E.   confide

Answer : C

47.   INSOLVENCY :

○ A.   ability to sustain growth
○ B.   concentration
○ C.   coherence
○ D.   ability to pay one's debts
○ E.   compatibility

Answer : D

48.   EFFLUVIA :

○ A.   controlled reactions
○ B.   predictable results

○ C.   important examples

○ D.   descried products

○ E.   relevant theories

Answer : C

49.   APPOSITE :

○ A.   parallel

○ B.   synonymous

○ C.   hostile

○ D.   inappropriate

○ E.   vague

Answer : D

50.   GRATUITOUS :

○ A.   frank

○ B.   pithy

○ C.   warranted

○ D.   frugal

○ E.   ingenuous

Answer : A

51.   PREFATORY :

○ A.   intelligent

○ B.   outstanding

○ C.   predatory

○ D.   conclusive

O E.   magnificent

Answer : E

52.   CONCILIATE :

   O A.   arrive
   O B.   appeal
   O C.   retaliate
   O D.   estrange
   O E.   lie

Answer : B

53.   SUBSERVIENT :

   O A.   fawning
   O B.   obsequious
   O C.   miserly
   O D.   omnipresent
   O E.   haughty

Answer : C

54.   VAUNTED :

   O A.   berated
   O B.   belittled
   O C.   lauded
   O D.   wicked
   O E.   worried

Answer : C

55. QUOTA :

  ○ A. Anonymous remark
  ○ B. decisive action
  ○ C. debatable issue
  ○ D. unlimited number
  ○ E. irrelevant topic

Answer : D

56. CONTENTIOUS :

  ○ A. satisfied
  ○ B. pacific
  ○ C. hungry
  ○ D. bellicose
  ○ E. dissatisfied

Answer : D

57. OBLOQUY :

  ○ A. fame
  ○ B. name
  ○ C. inquiry
  ○ D. shame
  ○ E. collogue

Answer : D

58. PENCHANT :

○ A.　distaste
○ B.　scabbard
○ C.　agreement
○ D.　earring
○ E.　beginning

Answer : C

59. BALEFUL :

○ A.　empty
○ B.　tasty
○ C.　gaudy
○ D.　full
○ E.　congenial

Answer : D

60. CURT :

○ A.　contractual
○ B.　precise
○ C.　honest
○ D.　voluble
○ E.　peremptory

Answer : D

61.   INVIDIOUS :

- A.   candid
- B.   stubborn
- C.   defensive
- D.   hostile
- E.   inoffensive

Answer : E

62.   MACERATE :

- A.   cover by painting
- B.   assess by observing
- C.   harden by drying
- D.   influence by lying
- E.   cure by medicating

Answer : B

63.   SKEPTICISM :

- A.   reason
- B.   conviction
- C.   plausibility
- D.   audricty
- E.   argument

Answer : D

64.   IGNOMINIOUS :

- ○ A. scholarly
- ○ B. incognito
- ○ C. laudatory
- ○ D. disgraceful
- ○ E. erudite

Answer : B

65. CODA :

- ○ A. creflain
- ○ B. crescendo
- ○ C. prelude
- ○ D. improvisation
- ○ E. solo

Answer : A

66. PALTRY :

- ○ A. farm
- ○ B. scanty
- ○ C. excessive
- ○ D. friendly
- ○ E. benevolent

Answer : A

67. PUISSANCE :

- ○ A. strength
- ○ B. knowledge

○ C.   liberality
○ D.   skepticism
○ E.   powerlessness

Answer : E

68.   MANUMIT :

○ A.   print
○ B.   impress
○ C.   enslave
○ D.   fail
○ E.   endeavor

Answer : D

69.   GENUFLECT :

○ A.   pronounce correctly
○ B.   falsify
○ C.   trick
○ D.   stand erect
○ E.   project

Answer : E

70.   INNOCUOUS :

○ A.   toxic
○ B.   large
○ C.   sober
○ D.   impeccable

○ E.   spotless

Answer : C

71.   BAROQUE :

○ A.   rococo
○ B.   simple
○ C.   common
○ D.   stupid
○ E.   boat like

Answer : B

72.   MYOPIC :

○ A.   blind
○ B.   moral
○ C.   visionary
○ D.   farsighted
○ E.   glassy

Answer : C

73.   NASCENT :

○ A.   loyal
○ B.   fading
○ C.   unnamed
○ D.   treacherous
○ E.   reoccuring

Answer : C

74. LOLL :

○ A.   describe exactly
○ B.   insist strongly
○ C.   comply readily
○ D.   notice incidentally
○ E.   move vigorously

Answer : E

75. TURBULENCE :

○ A.   immunity
○ B.   tranquility
○ C.   meditation
○ D.   moderation
○ E.   co ordination

Answer : E

76. BANAL :

○ A.   inclined
○ B.   faithful
○ C.   elaborate
○ D.   forced
○ E.   arresting

Answer : C

77.	GERMINAL

- A.	sterilized
- B.	strategic
- C.	fully developed
- D.	primitive
- E.	excused .

Answer : D

78.	GASCONADE

- A.	modesty
- B.	trAnswerparency
- C.	seizure
- D.	cleanliness
- E.	imposture

Answer : A

79.	MIASMA

- A.	scenario
- B.	summing up
- C.	noxious fumes
- D.	fragrant aroma
- E.	benevolent

Answer : B

80. OPPORTUNIST

   ○ A.   Man of principle
   ○ B.   fatalist
   ○ C.   fledgling
   ○ D.   colleague
   ○ E.   foe.

Answer : D

81. CENSURE

   ○ A.   uncertainity
   ○ B.   encomium
   ○ C.   criticism
   ○ D.   legal contual
   ○ E.   matrimony

Answer : B

82. COMMODIOUS

   ○ A.   product
   ○ B.   space
   ○ C.   cramped
   ○ D.   company
   ○ E.   roomy.

Answer : E

83. EFFRONTERY

○ A.   modesty
○ B.   confrontation
○ C.   avoidance
○ D.   shamelessness
○ E.   impudence

Answer : B

84.   OBSTREPEROUS

○ A.   noisy
○ B.   defiant
○ C.   permeable
○ D.   quiet
○ E.   stubborn

Answer : E

85.   PACIFY

○ A.   ameliorate
○ B.   patchup
○ C.   truce
○ D.   tormented
○ E.   agitated

Answer : C

86.   AMBIGUOUS

○ A.   confusing
○ B.   lucid

C. desirous

D. obfuscate

E. pun

Answer : A

87. MILITANT

A. Dramatic

B. combative

C. religious

D. pacific

E. quaint.

Answer : D

88. MOTILITY :

A. static

B. tension

C. ascent

D. liquidity

E. vulnerability

Answer : A

89. SINUOUS :

A. wet

B. vacant

C. numerous

D. direct

○ E.   round

Answer : D

90.   PLUMB :

○ A.   reversed
○ B.   horizontal
○ C.   light
○ D.   lofty
○ E.   thin

Answer : B

91.   SEGMENT:

○ A.   inflate
○ B.   affix
○ C.   keep still
○ D.   make whole
○ E.   cleanse

Answer : D

92.   OSSIFY :

○ A.   reassemble fragments
○ B.   overlook problems
○ C.   create consensus
○ D.   placate critics
○ E.   transcend conventions

Answer : E

93. RAVEL :

- A. increase in value
- B. omit
- C. remain silent
- D. measure
- E. knit

Answer : E

94. CALUMINATE :

- A. vindicate
- B. supplant
- C. rejuvenate
- D. follow
- E. familiarize

Answer : A

95. TURPITUDE :

- A. pragmatism
- B. probity
- C. judiciousness
- D. animation
- E. determinedness

Answer : B

96. INVECTIVE :

- A. willing compliance
- B. normality
- C. restoration
- D. fertility
- E. laudatory words

Answer : E

97. PILLORY :

- A. lament
- B. foster
- C. exalt
- D. enjoy
- E. forgive

Answer : C

98. UNTOWARD :

- A. experienced
- B. inevitable
- C. industrious
- D. straight forward
- E. favourable

Answer : E

Verbal Section: Analogies

Directions:

Each of the questions below consists of two words that have a certain relationship to each other, followed by five lettered pairs of related words. Select the lettered pair of words.

1.   ANGLE : DECATE

   ○ A.   area : square inch
   ○ B.   milk : quart
   ○ C.   society : classes
   ○ D.   letter : alphabet
   ○ E.   time : minutes

Answer : A

2.   CONFIRMED : INVETERATE

   ○ A.   knowledge : supposed
   ○ B.   financial : bankrupt
   ○ C.   immature : callow
   ○ D.   credible : incredible
   ○ E.   careful: punishing

Answer :B

3.   LULLABY : BARCAROLE

   ○ A.   birth : marriage
   ○ B.   night : morning
   ○ C.   cradle : gondola
   ○ D.   song : poem
   ○ E.   carol : sonneteer

Answer :C

4.   ZOOLOGY : ANIMALS

   ○ A.   ecology : pollution
   ○ B.   botany : plants
   ○ C.   chemistry : atoms
   ○ D.   history : people
   ○ E.   mathematics : geometry

Answer :A

5.   DORY : VAN

   ○ A.   dairy : cow
   ○ B.   fish : vehicle
   ○ C.   freighter : caisson
   ○ D.   runners : wheels
   ○ E.   danish : Dutch

Answer : C

6.   PARQUET : WOOD

   ○ A.   color : painting
   ○ B.   mosaic : glass
   ○ C.   potpourri : medley
   ○ D.   collage : tapestry
   ○ E.   linoleum : marble

Answer : B

7.   SAW : CARPENTER

   ○ A.   Scissors : tailor
   ○ B.   Wagon : farmer
   ○ C.   Brush : painter
   ○ D.   Typewriter : author
   ○ E.   Trowel : bricklayer

Answer : A

8.   LURK : WAIT

   ○ A.   boost : elevate
   ○ B.   deplete : drain
   ○ C.   abscond : depart
   ○ D.   bilk : cheat
   ○ E.   topple : stabilize

Answer : C

9.   ALCHEMY : SCIENCE

- ○ A.   nostrum : remedy
- ○ B.   sideshow : carnival
- ○ C.   ploy : tactic
- ○ D.   forgery : imitation
- ○ E.   burlesque : comedy

Answer : A

10.   NEEDLE : KNIT

- ○ A.   bait : fish
- ○ B.   match : fire
- ○ C.   loom : weave
- ○ D.   soap : wash
- ○ E.   bed : sleep

Answer : C

11.   PARENTHESIS : EXPLANATION

- ○ A.   ellipsis : omission
- ○ B.   asterisk : exaggeration
- ○ C.   synopsis : affectation
- ○ D.   apostrophe : annotation
- ○ E.   synthesis : interpolation

Answer : A

12. CENSUS : POPULATION

   O A.   manifest : debts
   O B.   roster : audience
   O C.   itinerary : journeys
   O D.   inventory : merchandise
   O E.   state : incumbents

Answer : D

13. STANZA : POEM

   O A.   mimicry : pantomime
   O B.   duet : chorus
   O C.   act : opera
   O D.   rhyme : verse
   O E.   pirouette : ballet

Answer : C

14. EXHORT : SUGGEST

   O A.   conspire : plan
   O B.   tamper : adjust
   O C.   crave : accept
   O D.   goad : direct
   O E.   instruct : teach

Answer : D

15.   SAND PAPER : ABRASIVE

   ○ A.   gasoline : refined
   ○ B.   grativity : irritant
   ○ C.   polish : floors
   ○ D.   acrylic : emulsion
   ○ E.   oil : lubricant.

Answer :E

16.   DIAPHANOUS : CACOPHONOUS

   ○ A.   translucent : transparent
   ○ B.   transparent : noisy
   ○ C.   sheer : opaque
   ○ D.   harmonious : discordant
   ○ E.   twofold : multiple.

Answer :B

17.   INFANCY : SENILITY

   ○ A.   january : October
   ○ B.   incipient : critical
   ○ C.   day : night
   ○ D.   conclusion : climax
   ○ E.   dawn : dusk.

Answer :E

18. RIG : CONTEST

 ◯ A. solve : conundrum
 ◯ B. predict : race
 ◯ C. repudiate : thesis
 ◯ D. gerrymander : district
 ◯ E. incriminate : evidence

Answer :D

19. ARBORETUM : TREES

 ◯ A. aviary : birds
 ◯ B. catenhouse : garden
 ◯ C. museum : painters
 ◯ D. grove : forest
 ◯ E. zoo : range

Answer :D

20. MENDICANT : IMPECUNIOUS

 ◯ A. hat : askew
 ◯ B. liar : poor
 ◯ C. complainer : petulant
 ◯ D. critic : quizzical
 ◯ E. philanthrophist : prodigal.

Answer :C

21. RELAPSE : CONVALESCENCE

 ◯ A. dissonance : harmony
 ◯ B. feudalism : industrialization

○ C.   repetition : monotony
○ D.   impasse : debate
○ E.   recidivism : rehavbilitation.

Answer :E

22.   BOUQUET : FLOWERS

○ A.   corn : husk
○ B.   woodpile : logs
○ C.   forest : thicket
○ D.   mist : fog
○ E.   drift : snow.

Answer :B

23.   TRIANGLE : QUADRILATERAL

○ A.   rectangle : octagon
○ B.   cone : cube
○ C.   pentagon : hexagon
○ D.   plane : solid
○ E.   regular : symmetrical.

Answer :C

24.   SARTORIAL : TAILOR

○ A.   thespian : designer
○ B.   rhetorical : questioner
○ C.   pictorial : musician
○ D.   histrionic : singer

○ E.   terpsichorear : dancer.

Answer :E

25.   NECROMANCY : GHOSTS

○ A.   magic : legerdemain
○ B.   alchemy : gold
○ C.   sorcery : spirits
○ D.   fortune_telling : gypsies
○ E.   romance : stories.

Answer :C

26.   DRUM : TYMPANI

○ A.   piano : orchestra
○ B.   cornet : percussion
○ C.   stick : baton
○ D.   violin : viola
○ E.   oboe : woodwind.

Answer :E

27.   EXTROVERT : RETICENT

○ A.   reprobate : humility
○ B.   strategist : decisiveness
○ C.   zealot : loyalty
○ D.   maverick : conformity
○ E.   renegade : ambition.

Answer :D

28. HYGROMETER : BAROMETER

- A. snow : rain
- B. humidity : pressure
- C. water : mercury
- D. temperature : weather
- E. forecast : rain.

Answer :B

29. EXEMPTION : EXCLUSIONS

- A. discharge : elimination
- B. debarment : prevention
- C. immunity : isolation
- D. forgive : condone
- E. enclosure : open.

Answer :C

30. FEBRILE : ILLNESS

- A. classic : cultivation
- B. delusional : insanity
- C. eccentric : discrimination
- D. tenacious : astonishment
- E. juvenile : maturity.

Answer :B

31.   DISAPPROBATION : CONDEMN

- A.   calumny : eulogise
- B.   enigma : enlighter
- C.   fallacy : diseminate
- D.   exhortation : urge
- E.   solvency : deploy.

Answer :D

32.   GEM : TURQUOISE

- A.   lettuce : green
- B.   pear : orange
- C.   stone : magnetta
- D.   vine : cherry
- E.   flower : violet.

Answer :E

33.   WINE : GRAPES

- A.   liquor : intoxicating
- B.   whiskey : hops
- C.   champagne : raisins
- D.   vodka : potatoes
- E.   vineyard : winery.

Answer :D

34. DEBATE : FORENSIC

- A.   concerto : harmonizing
- B.   drama : histrionic
- C.   opera : spoken
- D.   argument : domestic
- E.   novel : original.

Answer :B

35. NOISOME : GARBAGE

- A.   heavy : metal
- B.   warmth : snow
- C.   fragrant : incense
- D.   liquid : perfume
- E.   loud : music.

Answer :C

36. CONDUIT : WATER

- A.   behaviour : liquid
- B.   electricity : television
- C.   artery : blood
- D.   wire : sound
- E.   pump : oil.

Answer :C

37.   BIZARRE : EXOTIC

- A. wild : tame
- B. lively : livid
- C. stage : dancer
- D. commonplace : routine
- E. ordinary : exceptional.

Answer :D

38. ENTREPRENEUR : LABORER

- A. mediator : conflict
- B. capitalism : communism
- C. profits : wages
- D. arbitrator : capitalist
- E. moonlighting : worker.

Answer :C

39. ANTIMACASSAR : SOFA

- A. picture : frame
- B. rug : floor
- C. pillow : bed
- D. door : window
- E. table : chair.

Answer :B

40. NOTABLE : NOTORIOUS

- A. heinous : atrocious
- B. philandering : pleasant

C. philanthropic : miserly

D. nefarious : secret

E. philanthropic : benevolent.

Answer :E

41. BABBLE : TALK

A. though : blank

B. look : espy

C. wink : eye

D. leer : ogle

E. simper : smile.

Answer :E

42. ALCOVE : RECESS

A. column : entrance

B. foundation : building

C. dome : roof

D. turret : chimney

E. foyer : ballroom

Answer :C

43. FIRM : INTRANSWERIGHT

A. faithful : resolute

B. improvident : industrious

C. vague : inattentive

D. concerned : obsessed

      ○ E.   malleable : tractable

Answer :D

44.   EPAULET : SHOULDER

     ○ A.   medal : chest
     ○ B.   decoration : uniform
     ○ C.   knapsack : back
     ○ D.   sword : scabbard
     ○ E.   sash : window

Answer :A

45.   ANACHRONISM : CHRONOLOGY

     ○ A.   tradition : custom
     ○ B.   variations : incongruity
     ○ C.   fallacy : logic
     ○ D.   archetype : paradigm
     ○ E.   debauchery : appetites

Answer :C

46.   DETRITUS : GLACIERS

     ○ A.   thaw : cold
     ○ B.   snow : icebergs
     ○ C.   sediment : bottom
     ○ D.   silt : rivers
     ○ E.   dregs : society

Answer :D

47.   OUTSKIRTS : TOWN

   ○ A.   water : goblet
   ○ B.   margin : page
   ○ C.   rung : ladder
   ○ D.   hangar : airplane
   ○ E.   trunk : tree

Answer :B

48.   EQUIVOCATE : COMMITMENT

   ○ A.   collaborate : falsification
   ○ B.   fabricate : explanation
   ○ C.   procrastinate : action
   ○ D.   expostulate : confusion
   ○ E.   implicate : exposition

Answer :C

49.   MORPHINE : SEDATES

   ○ A.   oil : smears
   ○ B.   bandage : protects
   ○ C.   drug : addicts
   ○ D.   liquor : sedates
   ○ E.   medicine : soothes

Answer :D

50.   STICKLER : APPROXIMATION

- A.   Lluggard : indolence
- B.   connoisseur : anachronism
- C.   scientist : theorizing
- D.   leader : guidance
- E.   purist : adulteration

Answer :E

51.   LOOM : WEAVE

- A.   couch : sleep
- B.   needle : knit
- C.   soap : wash
- D.   machine : stitch
- E.   bail : fish

Answer :B

52.   SUBPOENA : WITNESS

- A.   hire : laborer
- B.   tax : worker
- C.   elect : officer
- D.   suborn : judge
- E.   conscript : soldier

Answer :E

53.   INVINCIBLE : SUBDUED

○ A.   expensive : bought
○ B.   inconsistent : expressed
○ C.   bolted : separated
○ D.   impervious : damaged
○ E.   imprudent : enacted

Answer :D

54.   BURLESQUE : PLAY

○ A.   operetta : symphony
○ B.   limerick : sonnet
○ C.   doggerel : verse
○ D.   table : narration
○ E.   sketch : drawing

Answer :C

55.   GROW : BURGEON

○ A.   flourish : thrive
○ B.   transport : enrapture
○ C.   beat : palpitate
○ D.   evolve : multiply
○ E.   wrot : decay

Answer :C

56.   HOAX : DECEIVE

○ A.   gimmick : wheedle
○ B.   filibuster : delay

   ○ C.   boast : cajole

   ○ D.   lottery : disburse

   ○ E.   scandal : vilify

Answer :B

57.   BODY GUARD : PERSON

   ○ A.   teacher : pupil

   ○ B.   mayor : city

   ○ C.   police officer : traffic

   ○ D.   soldier : country

   ○ E.   secretary : office

Answer :D

58.   MUFFLE : SOUND

   ○ A.   conceal : secret

   ○ B.   assuage : grief

   ○ C.   maul : object

   ○ D.   extract : flavor

   ○ E.   endure : agony

Answer :B

59.   CENSORSHIP : INFORMATION

   ○ A.   cultivation : erosion

   ○ B.   philanthropy : generosity

   ○ C.   frugality : constraint

   ○ D.   sampling : measurement

    ○ E.   sanitation : disease

Answer :E

60.   DUPLICATE : ALTER

    ○ A.   greet : ignore
    ○ B.   exchange : return
    ○ C.   shake : stabilize
    ○ D.   stretch : shrink
    ○ E.   eradicate : implicate

Answer :D

61.   HYPOTHESIS : EXPERIMENTATION

    ○ A.   reality : fantasy
    ○ B.   opinion : debate
    ○ C.   film : camera
    ○ D.   predication : conclusion
    ○ E.   science : success

Answer :B

62.   TANGO : DANCE

    ○ A.   stanza : line
    ○ B.   tonality : instrumentation
    ○ C.   arabesque : theme
    ○ D.   rhyme : pattern
    ○ E.   elegy : poem

Answer :E

63.   CHRONOMETER : SUNDIAL

- A.   measurement : visibility
- B.   chronology : analogy
- C.   computer : abacus
- D.   watch : ray
- E.   reduction : enlargement

Answer :C

64.   FOOTBALL : GRIDIRON

- A.   wrestling : mat
- B.   court : tennis
- C.   bowling : floor
- D.   rugby : arena
- E.   baseball : diamond

Answer :E

65.   EXPURGATE : PASSAGE

- A.   abridge : text
- B.   filter : water
- C.   irritate : wound
- D.   burn : book
- E.   cancel : plan

Answer :B

66. IMPECUNIOUS : HOVEL

   A.   progress : prosper
   B.   mendicant : evasion
   C.   prosperity : poverty
   D.   mendacious : cringe
   E.   affluent : mansion

Answer :E

67. APIARY : BEE

   A.   museum : painting
   B.   dam : water
   C.   arboretum : tree
   D.   forum : speech
   E.   planetarium : star

Answer :C

68. BULLET : BARREL

   A.   fame : films
   B.   train : track
   C.   idea : brain
   D.   plane : clouds
   E.   water : boat

Answer :B

69.   VINDICATE : REPREHENSIBLE.

   ○ A.   sad : sorrow
   ○ B.   bitter : sad
   ○ C.   mild : serious
   ○ D.   solid : porous
   ○ E.   vivid : obsequious.

Answer :C

70.   TERMAGANT : SHREW

   ○ A.   virago : harpy
   ○ B.   anteater : mouse
   ○ C.   supporter : nag
   ○ D.   single : married
   ○ E.   male : female.

Answer :A

71.   APOSTATE : RELIGION

   ○ A.   traitor : country
   ○ B.   renegade : Indian
   ○ C.   loyal : faith
   ○ D.   vital : church
   ○ E.   diloyal : colonies.

Answer :A

72.   PLEBISCITE : UKASE

○ A.	lack : abundance
○ B.	vote : musical instrument
○ C.	cancel : construct
○ D.	public : ruler
○ E.	written : oral

Answer :D

73.	DEBATER : LARYNGITIS

○ A.	pedestrian : lameness
○ B.	actor : aplause
○ C.	doctor : diagnosis
○ D.	swimmer : wet
○ E.	writer : paper

Answer :A

74.	INKBLOT : EYECHART

○ A.	oculist : ophthalmologist
○ B.	blotter : spectacles
○ C.	psychiatrist : optometrist
○ D.	physician : specialist
○ E.	blurs : letters

Answer :C

75.	LIGNEOUS : WOOD

○ A.	cellular : microbe
○ B.	nautical : water

C. igneous : rock

D. osseous : bone

E. fossilized : plant

Answer :D

76. SHRINE : PILGRIM

A. defeat : loser

B. peak : climber

C. rescue : danger

D. election : contestant

E. direction : driver.

Answer :B

77. RIVAL : COMPETITION

A. litigant : morality

B. maverick : co-operation

C. mentor : praise

D. sycophant : flattery

E. medicant : confusion.

Answer :D

78. SPIKE : TACK

A. bullet : wound

B. knife : cut

C. arrow : bow

D. spear : dart

○ E.   pin : needle

Answer :D

79.   INIQUITOUS : DISOBEDIENT

○ A.   adult : child
○ B.   hostile : cool
○ C.   quiescent : lethargic
○ D.   inflammable : flammable
○ E.   inequitable : equitable

Answer :B

80.   BALEFUL : MENACE

○ A.   brusque : retort
○ B.   competent : achievement
○ C.   placid : boredom
○ D.   flirtatious : affection
○ E.   solicitous : concern

Answer :E

81.   ALACRITY : APATHETIC

○ A.   compliance : deft
○ B.   temerity : timid
○ C.   despotism : arrogant
○ D.   candor : bungling
○ E.   tenacity : eager

Answer :B

82.   FIRE : STORM

  ○ A.   whale : minnow
  ○ B.   speech : shout
  ○ C.   plant : flower
  ○ D.   wind : temperature
  ○ E.   tornado : hurricane

Answer :E

83.   COLLUSION : CONSPIRATORS

  ○ A.   identification : arbitrators
  ○ B.   co-operation : partners
  ○ C.   conclusion : messengers
  ○ D.   revision : corespondents
  ○ E.   attribution : interpreters

Answer :B

84.   LIQUEFY : PETRIFY

  ○ A.   cash in : strengthen
  ○ B.   insolvent : bankrupt
  ○ C.   water : stone
  ○ D.   soften : frighten
  ○ E.   solvent : rich

Answer :C

85.   AMBULATORY : BEDRIDDEN

- ○ A.   strong : weak
- ○ B.   wheelchair : bed
- ○ C.   free : confined
- ○ D.   healthy : sick
- ○ E.   broken : arm

Answer :C

86.   CYNOSURE : BRILLIANT

- ○ A.   word : common
- ○ B.   student : attentive
- ○ C.   rock : large
- ○ D.   magnet : attractive
- ○ E.   map : legible

Answer :D

Analytical Section : Logical Reasoning

Directions : Each logical reasoning question in this part of the assessment starts with a reading passage containing the information to be used to choose between correct and incorrect logical conclusions. These conclusions are based on the information in the passage. After this reading passage, you are given a lead-in phrase that tells you to choose from among five different responses. These possible responses are generated by correctly or incorrectly applying logical thought to the information in the passage at the beginning of the question. They can be

thought of as different ways of completing a sentence that begins with the lead-in phrase.

1.   Testifying before the Senate committee investigating charges that cigarette manufacturers had manipulated nicotine levels in cigarettes in order to addict consumers to their products, tobacco executives argued that cigarette smoking is not addictive. The primary reason they gave in support of this claim was that cigarette smoking was not regulated by the Federal Drug Administration.

For the tobacco executives' argument to be logically correct, which of the following must be assumed?

- ○ A.   Substances that are not addictive are not regulated by ....the Federal Drug Administration.
- ○ B.   The tobacco executives lied when they claimed that ....cigarette smoking was not addictive.
- ○ C.   Some addictive substances are not regulated by the ....Federal Drug Administration.
- ○ D.   There is no scientific proof that cigarette smoking is ....addictive.
- ○ E.   Substances that are not regulated by the Federal Drug ....Administration are not addictive.

Answer : E

2.   People should be held accountable for their own behavior, and if holding people accountable for their own behavior entails capital punishment, then so be it. However, no person should be held accountable for behavior over which he or she had no control.

Which of the following is the most logical conclusion of the argument above?

○ A.   People should not be held accountable for the ....behavior of other people.
○ B.   People have control over their own behavior.
○ C.   People cannot control the behavior of other people.
○ D.   Behavior that cannot be controlled should not be ....punished.
○ E.   People have control over behavior that is subject ....to capital punishment.

Answer : B

3.   There is clear evidence that the mandated use of safety seats by children under age four has resulted in fewer child fatalities over the past five years. Compared to the five-year period prior to the passage of laws requiring the use of safety seats, fatalities of children under age four have decreased by 30 percent.

Which one of the following, if true, most substantially strengthens the argument above?

○ A.   The number of serious automobile accidents involving ....children under age four has remained steady over the ....past five years.
○ B.   Automobile accidents involving children have decreased ....sharply over the past five years.
○ C.   The use of air bags in automobiles has increased by ....30 percent over the past five years.
○ D.   Most fatal automobile accidents involving children under ....age four occur in the driveway of their home.
○ E.   The number of teenage drivers has increased by 30 ....percent over the past five years.

Answer : A

4.   Lycopene, glutathione, and glutamine are powerful antioxidants that neutralize the free radicals that are produced in the body as a result of routine bodily processes. An excess of these free radicals in your system causes rapid aging because they accelerate the rate of cellular damage. Aging is simply the result of this damage. Thus, to slow down aging it is necessary to supplement your diet with these antioxidants on a daily basis.

Which of the following, if true, most seriously undermines the author's contention?

- ○ A.   Most persons aren't concerned with the effects of aging ....until it is too late to do anything.
- ○ B.   Exercise associated with normal daily activities effectively ....neutralizes and dissipates the free radicals that are ....produced as a result of routine bodily processes.
- ○ C.   The cost of antioxidants is exorbitantly high and well ....beyond the budget of most consumers.
- ○ D.   Only overweight people who do not exercise on a daily ....basis are likely to have an excess of free radicals in their ....systems.
- ○ E.   Smoking cigarettes is one of the main causes of cellular ....damage in humans.

Answer : B

5.   Is it wrong for doctors to lie about their patients' illnesses? Aren't doctors just like any other people we hire to do a job for us? Surely, we would not tolerate not being told the truth about the condition of our

automobile from the mechanic we hired to fix it, or the condition of our roof from the carpenter we employed to repair it. Just as these workers would be guilty of violating their good faith contracts with us if they were to do this, doctors who lie to their patients about their illnesses violate these contracts as well, and this is clearly wrong.

The conclusion of the argument is best expressed by which of the following?

- ○ A.　Doctors who lie to their patients about their illnesses ....violate their good faith contracts with their patients.
- ○ B.　Doctors often lie to their patients about their illnesses.
- ○ C.　Doctors are just hired workers like mechanics and ....carpenters.
- ○ D.　It is wrong for doctors to lie about their patients' ....illnesses.
- ○ E.　Doctors, like mechanics and carpenters, enter into good ....faith contracts with us when we hire them.

Answer : D

6.　As any economist knows, healthy people pose less of an economic burden to society than unhealthy people. Not surprisingly, then, every dollar our state government spends on prenatal care for undocumented immigrants will save taxpayers of this state three dollars.

Which of the following, if true, would best explain why the statistics cited above are not surprising?

- ○ A.　The state's taxpayers pay for prenatal care of all ....immigrants.

○ B.　Babies born in this state to undocumented immigrant ....parents are entitled to infant care benefits from ....the state.

○ C.　State benefits for prenatal care serve to promote ....undocumented immigration.

○ D.　Babies whose mothers did not receive prenatal care ....are just as healthy as other babies.

○ E.　Pregnant women who do not receive prenatal care are ....more likely to experience health problems than ....other pregnant women.

Answer : E

7.　Beautiful beaches attract people, no doubt about it. Just look at this city's beautiful beaches, which are among the most overcrowded beaches in the state.

Which of the following exhibits a pattern of reasoning most similar to the one exhibited in the argument above?

○ A.　Moose and bear usually appear at the same drinking ....hole at the same time of day. Therefore, moose and ....bear must grow thirsty at about the same time.

○ B.　Children who are scolded severely tend to misbehave ....more often than other children. Hence if a child is ....not scolded severely that child is less likely to ....misbehave.

○ C.　This software program helps increase the work ....efficiency of its users. As a result, these users ....have more free time for other activities.

○ D. During warm weather my dog suffers from fleas ....more so than during cooler weather. Therefore, ...fleas must thrive in a warm environment.

○ E. Pesticides are known to cause anemia in some people. ....However, most anemic people live in regions where ....pesticides are not commonly used.

Answer : D

8. Our school district should not spend its money on the new Verbal Advantage reading program. After all, our students get all the reading practice they need by studying history and science.

The argument above depends on which the following assumptions?

○ A. The Verbal Advantage program would not help the ....students learn history and science.

○ B. Other reading programs are just as effective but ....less expensive than the Verbal Advantage program.

○ C. The Verbal Advantage program involves only reading ....practice.

○ D. Teaching students history and science is more ....important than teaching them reading skills.

○ E. The students can already read well enough to ....study history and science

Answer : C

9. A study of native born residents in Newland found that two-thirds of the children developed considerable levels of nearsightedness after

starting school, while their illiterate parents and grandparents, who had no opportunity for formal schooling, showed no signs of this disability.

If the above statements are true, which of the following conclusions is most strongly supported by them?

- O A.   Only people who have the opportunity for formal
         ....schooling develop nearsightedness.
- O B.   People who are illiterate do not suffer from
         ....nearsightedness.
- O C.   The nearsightedness in the children is caused by the
         ....visual stress required by reading and other class work.
- O D.   Only literate people are nearsighted.
- O E.   One-third of the children are illiterate.

Answer : C

10.   Newspaper publishers earn their profits primarily from advertising revenue, and potential advertisers are more likely to advertise in newspapers with a wide circulation of a large number of subscribers and other readers than with other newspapers. But the circulation of the newspaper that is currently the most profitable one in this city has steadily declined during the last two years, while the circulation of one of its competitors has steadily increased.

Any of the following, if true, would help explain the apparent discrepancy between the two statements above EXCEPT:

- O A.   Advertisers generally switch from the most widely
         ....circulated newspaper to another one only when the
         ....other one becomes the most widely circulated
         ....newspaper instead.

B. Advertising rates charged by the most profitable ....newspaper in the city are significantly higher than ....those charged by its competitors.

C. The most profitable newspaper in the city receives ....revenue from its subscribers as well from advertisers.

D. The circulation of the most profitable newspaper ....in the city is still greater than than of any of its ....competitors.

E. The number of newspapers competing viably with the ....most profitable newspaper in the city has increased ....during the last two years.

Answer : E

11. Although most of the fastest growing jobs in today's economy will require a college degree, many of the new jobs being created-from home health aide to desktop publisher-require knowledge other than that gained from earning a degree. For workers in those jobs, good basic skills in reading, communication, and mathematics play an important role in getting a job and developing a career.

From the information given above it can be validly concluded that, in today's economy,

A. skills in reading, communication, and mathematics play an important role in developing a career as a desktop publisher

B. the majority of the new jobs being created require knowledge other than that gained from earning a college degree

C. a job as a home health aide will rely more on communication skills than on basic skills in reading and mathematics

D. if a job is one of the fastest growing jobs, it will require a college degree

Answer : A

12. According to the National Agricultural Aviation Society (NAAS), without the use of crop protection products to control insects, weeds, and diseases, crop yields per acre will drop by more than 50 percent. The first aerial application of insecticide occurred in 1921, and it was a huge success. By contrast, in today's economy all aircraft that are classified as aerial applicators do more than just apply insecticide; today, they also spread seed and apply fertilizer.

From the information given above it CANNOT be validly concluded that

A. in today's economy, if an aerial applicator is used, then it will be able to spread seed and to apply fertilizer

B. according to the NAAS, if crop yields per acre never drop by more than 50 percent, then crop protection products have been used to control insects, weeds, and diseases

C. in today's economy, any aircraft that cannot be used to apply fertilizer cannot be classified as an aerial applicator

D. in 1921, if an aircraft was used for the application of insecticide, then it was not also used to spread seed

E. according to the NAAS, if crop yields per acre drop by more than 50 percent, then crop protection products have not been used to control insects, weeds, and diseases.

Answer : E

13. No national productivity measures are available for underground industries that may exist but remain unreported. On the other hand, at least some industries that are run entirely by self-employed industrialists are included in national productivity measures.

From the information given above, it can be validly concluded that

- ○ A. there are at least some industries run entirely by self-employed industrialists that are underground industries
- ○ B. no industries that are run entirely by self-employed industrialists operate underground
- ○ C. there are at least some industries other than those run entirely by self-employed industrialists that are underground industries
- ○ D. there are at least some industries run entirely by self-employed industrialists that are not underground industries
- ○ E. there are at least some underground industries for which national productivity measures are available

Answer : D

14. Lou observes that if flight 409 is canceled, then the manager could not possibly arrive in time for the meeting. But the flight was not canceled. Therefore, Lou concludes, the manager will certainly be on time. Evelyn replies that even if Lou's premises are true, his argument is fallacious. And therefore, she adds, the manager will not arrive on time after all.

Which of the following is the strongest thing that we can properly say about this discussion?

- ○ A. Evelyn is mistaken in thinking Lou's argument to be fallacious, and so her own conclusion is unwarranted.

○ B.   Evelyn is right about Lou's argument, but nevertheless her own conclusion is unwarranted.

○ C.   Since Evelyn is right about Lou's argument, her own conclusion is well supported.

○ D.   Since Evelyn is mistaken about Lou's argument, her own conclusion must be false.

○ E.   Evelyn is right about Lou's argument, but nevertheless her own conclusion is false.

Answer : B

15.   Sally has never received a violation from the Federal Aviation Administration during her 16-year flying career. Sally must be a great pilot.

Which of the following can be said about the reasoning above?

○ A.   The definitions of the terms create ambiguity.

○ B.   The argument uses circular reasoning.

○ C.   The argument works by analogy.

○ D.   The argument is built upon hidden assumptions.

○ E.   This is an example of an argument that is directed against the source of the claim rather than the claim itself.

Answer : D

16.   The Japanese economic model created strong domestic industries through subsidies from its Ministry of Trade and by closing off competitive foreign firms to its domestic market. This strategy promised to help economic growth by incubating domestic industries. New Japanese industries could count on a known local demand and would be protected

from competition by tariffs and other barriers. The program could reduce the amount of imports and therefore improve the nation's balance of trade.

Which of the following, based on the passage above, is a weakness in this economic strategy?

- ○ A. A protectionist policy will create animosity among other nations.
- ○ B. Fast growth of small industries will create a class of millionaires and increase the inequality of income.
- ○ C. Subsidies and import constraints keep domestic prices high and impose a burden on consumers.
- ○ D. Quotas are more regressive than tariffs.
- ○ E. The demand for the products made by the incubated industries would not be known.

Answer : C

17. Historically, famines have generally been followed by periods of rising wages, because when a labor force is diminished, workers are more valuable in accordance with the law of supply and demand. The Irish potato famine of the 1840s is an exception; it resulted in the death or emigration of half of Ireland's population, but there was no significant rise in the average wages in Ireland in the following decade.

Which one of the following, if true, would LEAST contribute to an explanation of the exception to the generalization?

- ○ A. Improved medical care reduced the mortality rate among able-bodied adults in the decade following the famine to below prefamine levels.

B.   Eviction policies of the landowners in Ireland were designed to force emigration of the elderly and infirm, who could not work, and to retain a high percentage of able-bodied workers.

C.   Advances in technology increased the efficiency of industry and agriculture, and so allowed maintenance of economic output with less demand for labor.

D.   The birth rate increased during the decade following the famine, and this compensated for much of the loss of population that was due to the famine.

E.   England, which had political control of Ireland, legislated artificially low wages to provide English-owned industry and agriculture in Ireland with cheap labor.

Answer : D

18.   Cars are safer than planes. Fifty percent of plane accidents result in death, while only one percent of car accidents result in death.

Which of the following, if true, would most seriously weaken the argument above?

A.   Planes are inspected more often than cars.

B.   The number of car accidents is several hundred thousand times higher than the number of plane accidents.

C.   Pilots never fly under the influence of alcohol, while car drivers often do.

D.   Plane accidents are usually the fault of air traffic controllers, not pilots.

E.   Planes carry more passengers than cars do.

Answer : B

19.   The body of anyone infected by virus X will, after a week, produce antibodies to fight the virus; the antibodies will increase in number for the next year or so. There is now a test that reliably indicates how many antibodies are present in a person's body. If positive, this test can be used during the first year of infection to estimate to within a month how long that person has had the virus.

Which one of the following conclusions is best supported by the statements above?

○ A.   Antibodies increase in number only until they have defeated the virus.

○ B.   Without the test for antibodies, there is no way of establishing whether a person has virus X.

○ C.   Antibodies are produced only for viral infections that cannot be fought by any other body defenses.

○ D.   If a person remains infected by virus X indefinitely, there is no limit to the number of antibodies that can be present in the person's body.

○ E.   Anyone infected by virus X will for a time fail to exhibit infection if tested by the antibody test.

Answer : E

20.   Ever since I arrived at the college last week, I've been shocked by the poor behavior of the students. The student population is completely lacking in proper social skills.

Which of the following, if true, would weaken the above conclusion?

○ A.   Students who are away from their parents often exhibit rude behavior.

○ B.   The college numbers over 50,000 students.

C. The narrator is a student and has interacted with many students.
D. Social skills should not be expected of college students.
E. The narrator was reluctant to stay at the college.

Answer : B

21. A study of a math program implemented in several pre-schools indicates that children who received the specialized Math Plus math education between the ages three and five had significantly higher math scores in 3rd and 4th grade than their classmates who did not receive this instruction. The proponents of the math argue that the introduction of this program for all children age three to five will significantly improve their chances for success in school.

Which of the following, if true, would most seriously weaken the above argument?

A. Most parents send their children to preschool for social development and do not have a clear idea about what types of education they want for their children.
B. Cognitive abilities of 3- to 5-year-old children are constantly changing.
C. The children in the pre-schools that were studied had previously been exposed to another math enrichment program.
D. Children are not really interested in enrichment programs in preschool.
E. The cost factor needs to be specified and established before a large scale program can be undertaken.

Answer : C

22.   The symptoms of mental disorders are behavioral, cognitive, or emotional problems. Some patients with mental disorders can be effectively treated with psychotherapy, but it is now known that in some patients' mental disorders result from chemical imbalances affecting the brain. Thus, these patients can be effectively treated only with medication that will reduce or correct the imbalance.

The argument depends on assuming which one of the following?

○ A.   Treatment by psychotherapy can produce no effective reduction in or correction of chemical imbalances that cause mental disorders.

○ B.   Treatment with medication always shows faster results for patients with mental disorders than does treatment with psychotherapy

○ C.   Most mental disorders are not the result of chemical imbalances affecting the brain.

○ D.   Medication is always more effective in treating patients with mental disorders than is psychotherapy.

○ E.   Treatment with psychotherapy has no effect on mental disorders other than a reduction of the symptoms.

Answer : A

23.   Dear Editor: I feel obliged to comment on the unfair review you published last week written by Robert Duxbury. Your readers should know that Mr. Duxbury recently published his own book that covered the same topic as my book, which you asked him to review. It is regrettable that Mr. Duxbury should feel the need to belittle a competing work in the hope of elevating his own book.

The author of the letter above makes her point by employing which method of argument?

- ○ A.   Attacking the motives of the author of the unfavorable review.
- ○ B.   Attacking the book on the same topic written by the author of the review.
- ○ C.   Contrasting her own book with that written by the author of the review.
- ○ D.   Questioning the judgment of the author of the unfavorable review.
- ○ E.   Stating that her book should not have been reviewed by the author of a competing work.

Answer : A

24.   The government of Zunimagua has refused to schedule free elections, release political prisoners, or restore freedom of speech; therefore, no more financial aid from the United States should be provided to Zunimagua.

Which of the following is an assumption made in the argument above?

- ○ A.   Withdrawal of U.S. aid from Zunimagua will force a change in the policies of its government.
- ○ B.   The people of Zunimagua would be better off if their present despotic government were overthrown.
- ○ C.   The government of Zunimagua is dependent on continued U.S. aid for its existence.
- ○ D.   U.S. aid should be given only to countries willing to adopt policies in line with U.S. interests and goals.

E.   U.S. aid should be withdrawn from any country that refuses to operate its government along democratic lines.

Answer : E

25.   Many people argue that the death penalty deters murder. However, the notorious killer Ned Grandy deliberately moved to a state that imposes the death penalty just before embarking on a series of ferocious murders. Thus, it seems clear that the existence of the death penalty does not serve as a deterrent to murder.

The argument above may best be characterized as:

    A.   an appeal to emotion.
    B.   a flawed analogy.
    C.   a general conclusion based on a specific example.
    D.   circular reasoning.
    E.   an application of a general principle to a specific example.

Answer : C

26.   Steve and JoAnne are both members of a certain club, though they are not speaking to each other and refuse to work with each other. Cecily, the club president, is appointing members to the fundraising committee, but she has resolved that she will not appoint anyone without his or her explicit consent. Steve tells Cecily, "I will not consent to appointment on that committee unless I know whether JoAnne is to be a member of it." And JoAnne says, "I will not consent to be a member of that committee unless I know whether Steve will be appointed to it."

If all three of these people stick by these resolutions, then:

    A.   Neither of them can be appointed to the committee.
    B.   The situation described in the scenario cannot arise, because it is inherently incoherent.

○ C.   They must either both be appointed or both be left out.
○ D.   The committee may finally have one of them, both of them, or neither of them as members.
○ E.   Either one of them can be appointed, but not both.

Answer : E

27.   Russia's aggressive fishing in the prime fishing grounds of the Northern Pacific has led to a sharp decline in the populations of many fish and a general increase in the retail price of fish. This same pattern has occurred with far too many of our scarce vital natural resources, resulting in high prices for many products. It is likely then, that fish prices will continue to rise in the near future.

In making the argument above, the author relies on all of the following assumptions EXCEPT:

○ A.   The scarcity of fish is a determining factor in its price.
○ B.   The decline in the number of fish available will result in higher prices for fish in stores.
○ C.   There will not be any substantial decrease in other costs involved in the fishing process that could keep the price of fish from increasing.
○ D.   Fish populations will not recover in the near future.
○ E.   Fishing practices can substantially influence the demand for fish.

Answer : E

28.   During the past year, Boz Corporation, a cigarette manufacturer, has engaged in a "corporate image" advertising campaign. One executive now

urges that the advertising be extended for another year because profits have increased by 29% over the previous year. Another executive, however, is skeptical. She observes that the increases are typical for the industry over the past year, although none of their competitors have used corporate image advertising.

The most accurate way of summarizing the second executive's point would be:

- A. She argues that the effect may not really be due to its supposed cause because there has not been a sufficient lapse of time between the cause and the effect.
- B. She argues that the assignment of a cause for this effect is premature, because there is as yet no well-established theory of such interactions.
- C. She argues that corporate image advertising is unprofitable, since it has evidently benefited competitors as much as the corporation that paid for it.
- D. She knows that effective advertising requires a constant influx of new ideas and approaches, and she argues that one year of corporate image advertising is enough for awhile.
- E. She argues that the effect may not be due to its alleged cause since the same effect is found elsewhere without that cause.

Answer : E

29.   The senate candidate expressed outrage that few judges have any background in technology, yet they try to resolve cases involving high tech companies. He stated that not one federal judge has a degree or any experience in computer technology.

A promising response to this concern, arguing that things are not as bad as they might seem, could involve which of the following claims?

- ○ A. Most of the public policy questions in this area are really about the morality and the value of scientific and technological developments. They do not require much technical understanding beyond that of a layperson.
- ○ B. Computer scientists, by and large, have little interest in politics and public policy. It would be difficult to find scientists with the degree of commitment required for a serious contribution to the judicial system.
- ○ C. There is a lack of people who are qualified in both technical and legal areas of expertise.
- ○ D. There is very little opportunity for, and indeed little need for, technical expertise in the judicial branch. There is therefore almost no way for a technical specialist to rise through the ranks to a top-level position in government.
- ○ E. The rewards of a life as a judge, in terms of both money and prestige, are not high enough to attract top-flight technical experts to this area.

Answer : A

30. There has been a sharp increase in the subscription prices of many professional and scholarly journals in the past seven years. Many publishers ascribe the necessity for these increases to the easy availability of photocopying facilities, which enable people simply to copy the articles they want rather than buying the journal.

Which of the following, if it is true, would make this explanation more plausible?

○ A.   The great majority of professional and scholarly journals have a massive backlog of papers awaiting publication.

○ B.   Over the past five years there has been a substantial decline in the number of individual subscriptions to professional and scholarly journals, while library subscriptions have remained fairly stable.

○ C.   In the five years immediately preceding the price surge, there was a substantial decline in the number of individual subscriptions to professional and scholarly journals, while library subscriptions remained fairly stable.

○ D.   Many libraries have recently begun cutting back on subscriptions to professional and scholarly journals.

○ E.   In almost every field, several new professional and scholarly journals have begun publication in the past few years.

Answer : C

31.   Smoking in bed has long been the main cause of home fires. Despite a significant decline in cigarette smoking in the last two decades, there has been no comparable decline in the number of people killed in home fires.

Each one of the following statements, if true over the last two decades, helps to resolve the apparent discrepancy above EXCEPT:

○ A.   Compared to other types of home fires, home fires caused by smoking in bed usually cause relatively little damage before they are extinguished.

○ B.   Home fires caused by smoking in bed often break out after the home's occupants have fallen asleep.

C. Smokers who smoke in bed tend to be heavy smokers who are less likely to quit smoking than are smokers who do not smoke in bed.

- D. An increasing number of people have been killed in home fires that started in the kitchen.
- E. Population densities have increased, with the result that one home fire can cause more deaths than in previous decades.

Answer : B

32. Mrs. Mason is gifted with psychic powers that enable her to foretell future events. In the past, Mrs. Mason has predicted such actual events as the election of President Clinton, the stock market crash of 1987, and the St. Louis Cardinals' 1982 World Series victory. These are just a few of Mrs. Mason's accurate predictions.

The Answer to which of the following questions would be most useful in evaluating the strength of the argument above?

- A. What percentage of Mrs. Mason's predictions has come true?
- B. Could the election of President Reagan have been predicted without the help of psychic powers?
- C. What is the actual mechanism by which Mrs. Mason's psychic powers are supposed to operate?
- D. How long before the events in question did Mrs. Mason make her accurate predictions?
- E. Do most scientists accept the idea that the power to predict the future through psychic means really exists?

Answer : A

33.   An ingredient in coffee, known as RTC, has been found to inactivate common cold viruses in experiments. In previous experiments, researchers found that inactivated common cold viruses can convert healthy cells into cancer cells. It can be concluded that the use of coffee can cause cancer.

Which one of the following, if true, most seriously weakens the argument?

- ○ A.   Several teams of scientists performed the various experiments, and all of the teams had similar results.
- ○ B.   The carcinogenic effect of RTC could be neutralized by the other ingredients found in coffee.
- ○ C.   When RTC kills common cold viruses it weakens the immune system, and it might thus diminish the body's ability to fight other viruses, including viruses linked to cancers.
- ○ D.   If chemists modify the structure of RTC, RTC can be safely incorporated into medications to prevent the common cold.
- ○ E.   To lessen the undesirable side effects of chemotherapy, the use of coffee has been recommended for cancer patients who are free of the common cold virus.

Answer : B

34.   Jack Bygrave is an executive at a major South African diamond company that produces 2% of the world's total annual diamond production. The CFO is anxious to maximize revenues and increase sales. Bygrave, however, believes that increased production would only drive down the world price of diamonds and lower revenues.

Which of the following represents the logical flaw in Bygrave's reasoning?

○ A.   Jack connects the price of unrefined diamonds and the price of jewelry-quality diamonds.

○ B.   He assumes that production goals are similar to financial goals.

○ C.   He assumes that the supply produced by a single company can significantly alter the aggregate supply for the market.

○ D.   He assumes that seasonal and long term supply are proportional.

○ E.   He correlates long-term and short-term demand.

Answer : C

35.   The crux of creativity resides in the ability to manufacture variations on a theme. If we look at the history of science, for instance, we see that every idea is built upon a thousand related ideas. Careful analysis leads us to understand that what we choose to call a new theme or a new discovery is itself always and without exception some sort of variation, on a deep level, of previous themes.

If all of the statements in the passage are true, each of the following must also be true EXCEPT:

○ A.   A lack of ability to manufacture a variation on a previous theme connotes a lack of creativity

○ B.   No scientific idea is entirely independent of all other ideas.

○ C.   Careful analysis of a specific variation can reveal previous themes of which it is a variation.

○ D.   All great scientific discoverers have been able to manufacture a variation on a theme.

○ E.   Some new scientific discoveries do not represent, on a deep level, a variation on previous themes.

Answer : E

36.   Studies of fatal automobile accidents reveal that, in the majority of cases in which one occupant of an automobile is killed while another survives, it is the passenger, not the driver, who is killed. It is ironic that the innocent passenger should suffer for the driver's carelessness, while the driver often suffers only minor injuries or none at all.

Which of the following is an assumption underlying the reasoning in the passage above?

- ○ A.   In most fatal automobile accidents, the driver of a car in which an occupant is killed is at fault.
- ○ B.   Drivers of automobiles are rarely killed in auto accidents.
- ○ C.   Most deaths in fatal automobile accidents are suffered by occupants of cars rather than by pedestriAnswer.
- ○ D.   Auto safety experts should increase their efforts to provide protection for those in the passenger seats of automobiles.
- ○ E.   Automobile passengers sometimes play a contributing role in causing auto accidents.

Answer : A

37.   The editors of Business Today magazine conducted a poll of its readers regarding the proposed increase in the rate of income tax paid on profits from the sale of stocks. More than 60% of the readers opposed the proposed tax. The editors announced that the majority of AmericAnswer opposed any increase in the tax on profits from stock sales.

Which one of the following statements, if true, would most weaken the editor's conclusion?

○ A.   Some readers of Business Today magazine are citizens of countries other than the United States.
○ B.   Decisions concerning the income tax laws are made by the Congress rather than directly by the people.
○ C.   Most of those who earn profits from stock sales are wealthy and can afford to pay higher taxes.
○ D.   The viewpoints of the vast majority of the readers of Business Today magazine differ from the views of most AmericAnswer.
○ E.   Not all readers of Business Today magazine responded to the editors' poll.

Answer : D

38.   Several movie versions of Charles Dickens' Tale of Two Cities have been made. The original movie version made in 1939 is the best because it is closest in spirit to the original novel.

An underlying assumption of the argument above is that a movie based on a novel should:

○ A.   reflect the director's original interpretation of the main themes of the novel.
○ B.   accurately depict the time and place in which the novel is set.
○ C.   feature actors and actresses who closely resemble the characters in the novel both in body and spirit.
○ D.   faithfully render the details of the plot from the narrator's point of view.
○ E.   capture the true meaning and intention of the novel.

Answer : E

Instructions	⏱ **50 Minutes**

There are 50 questions in this section of your assessment, you are to provide the correct answers in 50 minutes. Your answer should be based on information provided only. Calculators are not allowed in this test and you should submit every scratch paper after the test before taking your leave.

1

Directions (1-5): In the following number series one number is wrong. Find out the wrong number.

39, 42, 48, 59, 84, 132

A.132
B.42
C.48
D.59
E.84

2

11, 18, 30, 40, 59, 86

A.30
B.11
C.18
D.59
E.86

3

5, 30, 59, 119, 209, 335

A.59
B.335
C.5
D.119
E.30

4

353, 385, 316, 441, 225, 568

A.568
B.353
C.385
D.225
E.316

5

21, 29, 84, 756, 12096, 302400

A.12096
B.29
C.84
D.756
E.21

6 Each Student of a class collected some money for the trip. The total money collected by each student was equal to the cube of the total number of students. If the total amount collected was ₦29,791. Find the total number of students.

A. 31
B. 30
C. 28
D. 37
E. 39

7 A dealer buys an article marked ₦50,000 at 25% and 10% successive discount. He spends ₦5,000 on its repair and sells it for ₦50,000. What is his loss or gain percentage?

A. 33.63% loss
B. 26.43% gain
C. 1.25% gain
D. 29.03%
E. 27.13% loss

8 The average age of four boys, five years ago was 9. One of the boys is now 17. If the other boys' ages are one year apart from youngest to the oldest, The present age of the youngest is?

A. 10 years
B. 15 years
C. 14 years
D. 13 years
E. 12 years

9 Bolanle wants to purchase a GSM handset. The shopkeepers told her to pay 30% tax if she asked for the actual sale price (without tax) of the mobile and paid to the shopkeeper N16,150. In doing so, she managed to avoid to pay the 30%tax. What is the amount of discount that she received on the selling price (inclusive of tax)?

A. ₦ 5,495
B. ₦ 5,850
C. ₦ 5950
D. ₦ 5685
E. ₦ 5975

10 P, Q and R can do a piece of work in 18,24 and 36 days on the second day and P on the third day, again R on the fourth day and so on. Then in how, many days will the work be completed?

A.25
B.24
C.22
D.20
E.26

Direction: Study the table carefully and answer the questions given below:

Details of employees deployed at different levels by a company in different departments.

Department	Manager		Officer	
	Number	M : F	Number	M : F
Operations	2200	7 : 4	2800	6 : 8
Public relations	1800	5 : 4	2500	9 : 11
Finance	2500	14 : 11	3200	17 : 15
Advertising	2900	12 : 17	1600	9 : 7
Sales	2400	9 : 7	2600	8 : 5
Procurement	2700	5 : 4	2200	9 : 13

11 The total number of female employees(Managers and Officers) in Procurement department is approximately by what per cent more than their male counterparts?

A.2%
B.6%
C.4%
D.8%
E.9%

12 The number of female managers in Finance department is what per cent of the total number of male managers in Sales department?

A.77%
B.82%
C.78%
D.84%
E.81%

13 What is the ratio of the total number of female managers in Operations and Finance departments to that of male officers in these two departments?

A.25:29
B.19:26
C.19:25
D.19:29
E.22:29

Direction: Study the table carefully and answer the questions given below:

Details of employees deployed at different levels by a company in different departments.

Department	Manager		Officer	
	Number	M : F	Number	M : F
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Finance	2500	14 : 11	3200	17 : 15
Advertising	2900	12 : 17	1600	9 : 7
Sales	2400	9 : 7	2600	8 : 5
Procurement	2700	5 : 4	2200	9 : 13

14

The total number of male officers inAdvertising nad Sales departments is approximately what per cent the total number of officers in these two department?

A.55.8%
B.56%
C.57.5%
D.54%
E.59.5%

15

What is the different between the totalnumber of female officers in Advertising and Public Relations department and the total number of female managers in these two department?
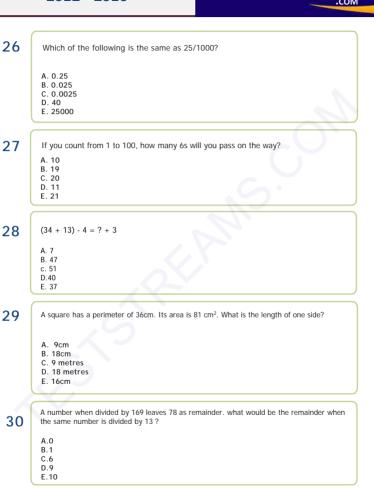
A.405
B.415
C.425
D.435
E.395

16 A number when divided by 169 leaves 78 as remainder. what would be the remainder when the same number is divided by 13 ?

A.0
B.1
C.6
D.9
E.10

17 The Simple interest on a certain sum for 2years at 10% per annum is N.90. The corresponding compound interest is??

A.94.5
B.92.6
C.94.2
D.94.1
E.92.5

18 The cost of fencing a circular plot at the rate of N15 per m is N 6600. What will be the cost of flooring the plot at the rate of N.50 per sq. m?

A.6,70,000
B.5,50,000
C.7,70,000
D.6,50,000
E.5,60,000

19 The salaries of P,Q and R are in the ratio 5:3:2.If the increments of 20% ,10% and 20% are allowed in their salaries, then what will be the new ratio of their salaries ?

A.20: 11: 18
B.20: 11:15
C.20:11:12
D.20:11:10
E.None of these

20 Following the pattern shown in the number sequence below, what is the missing number?
1 3 9 ? 81 243

A. 18
B. 27
C. 49
D. 21
E. 63

21

In the image shows correctly worked addition sum, A,B,C and D represent different digits, and all the digits in the sum are different. What is the sum of A,B,C and D?

A. 23
B. 22
C. 18
D. 16
E. 14

```
  5A
  BC
 D43
```

22

12 litres of water are poured into an aquarium of dimensions 50cm length, 30cm breadth, and 40cm height. How high (in cm) will the water rise?   (1 litre = 1000cm³)

A. 6
B. 8
C. 10
D. 20
E. 40

23

For how many integer values of n will the value of the expression 4n + 7 be an integer greater than 1 and less than 200?

A. 48
B. 49
C. 50
D. 51
E. 52

24

If pqr = 1 , rst = 0 , and spr = 0, which of the following must be zero?

A. P
B. Q
C. R
D. S
E. T

25

♠n denotes the number obtained when n is rounded to the nearest tenth.
For example ♠4.31 = 4.3♠0.089 - ♠1.135 =

A. 1.05
B. 1.04
C. -1.05
D. -1.0
E. -0.1

26

Which of the following is the same as 25/1000?

A. 0.25
B. 0.025
C. 0.0025
D. 40
E. 25000

27

If you count from 1 to 100, how many 6s will you pass on the way?

A. 10
B. 19
C. 20
D. 11
E. 21

28

$(34 + 13) - 4 = ? + 3$

A. 7
B. 47
c. 51
D.40
E. 37

29

A square has a perimeter of 36cm. Its area is 81 cm^2. What is the length of one side?

A. 9cm
B. 18cm
C. 9 metres
D. 18 metres
E. 16cm

30

A number when divided by 169 leaves 78 as remainder. what would be the remainder when the same number is divided by 13 ?

A.0
B.1
C.6
D.9
E.10

31 In a college the ratio of the number of boys to girls is 8:5. If there are 160 girls, what is the total number of students in the college?

A.100
B.250
C.260
D.416
E.420

32 What percent of 50 is 2?

A.2%
B.2.5%
C.4%
D.5%
E.1%

33 What is (5 of 13) – (4 + 19) of 2 ?

A. 17
B. 18
c. 19
D. 20
E. 24

34 When rope is selling at $.10 a foot, how many feet can you buy for sixty cents?

A.   6 feets
B. 18 feets
C. 30 feets
D. 45 feets
E. 60 feets

35 In printing an article of 48,000 words, a printer decides to use two sizes of type. Using the larger type, a printed page contains 1,800 words. Using smaller type, a page contains 2,400 words. The article is allotted 21 full pages in a magazine. How many pages must be in smaller type?

A.10
B.15
C.17
D.19
E.23

36

A gallon of gas costs $2.50. How many gallons of gas can be purchased with $5?

A. 2
B. 3
C. 4
D. 40
E. 5

37

Last year, 12 out of 600 employees at a service organization were rewarded for their excellence in customer service, which was _____% of the employees.

A. 1
B. 2
C. 3
D. 4
E. 6

38

Divide 30 by half. Add 10. Multiply by 3. Add 6. What is does this equal?

A. 37
B. 47
c. 51
D. 81
E. 216

39

A circle has a perimeter of 44cm. Its area is 154 cm^2. What is the radius of the circle?

A. 5.0 cm
B. 18cm
C. 9 metres
D. 7.0 cm
E. 2.9cm

40

Which number should come next in this series?
25,24,22,19,15,___

A.4
B.5
C.10
D.14
E.6

41

3x + y = 19 , and x + 3y = 1.
Find the value of 2x + 2y

A. 20
B. 18
C. 11
D. 10
E. 5

42

The price of a cycle is reduced by 25 per cent. The new price is reduced by a further 20 per cent. The two reductions together are equal to a single reduction of _____

A. 45%
B. 40%
C. 35%
D. 32.5%
E. 30%

43

(√2 - √3)² =

A. 5 - **2** √6
B. 5 + **2** √6
c. 5 - 3 √6
D. 5 + 3 √6
E. 3 - 5 √6

44

$2^{30} + 2^{30} + 2^{30} + 2^{30} =$

A. 8^{20}
B. 8^{30}
C. 2^{32}
D. 2^{30}
E. 2^{26}

45

In a class of 78 students 41 are taking French, 22 are taking German. Of the students taking French or German, 9 are taking both courses. How many students are not enrolled in either course?

A. 6
B. 15
C. 24
D. 33
E. 54

46

Of the following, which is greater than ½ ?

A. 2/5
B. 4/7
C. 4/9
D. 5/11
E. 6/13

47

If an object travels at five feet per second, how many feet does it travel in one hour?

A. 30
B. 300
C. 720
D. 1800
E. 18000

48

What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?

A. 90
B. 95
C. 100
D. 105
E. 110

49

A cubical block of metal weighs 6 pounds. How much will another cube of the same metal weigh if its sides are twice as long?

A. 48
B. 32
C. 24
D. 18
E. 12

50

A straight fence is to be constructed from posts 6 inches wide and separated by lengths of chain 5 feet long. If a certain fence begins and ends with a post, which of the following could not be the length of the fence in feet? (12 inches = 1 foot)

A. 17
B. 28
C. 35
D. 39
E. 50

End of Set

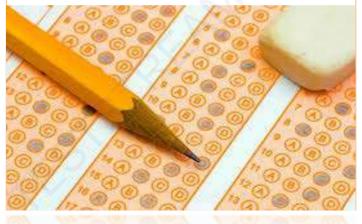**Go to Answer Keys to check how well you performed.**

Look at any questions you got wrong and try to understand how to arrive at the correct answer.

If you took much longer than 50 minutes to answer the questions, try to speed up your work rate.
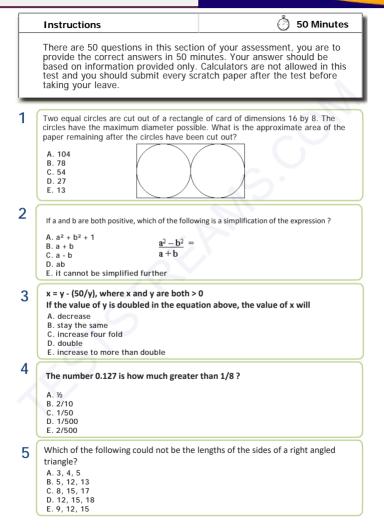
If you finished all of the questions within the time limit but made many mistakes, try focusing more on the accuracy of your responses.

A good score range during practice should be around 46-50 points

In the actual test, both Speed and Accuracy are key to your success.

Instructions	🕐 50 Minutes

There are 50 questions in this section of your assessment, you are to provide the correct answers in 50 minutes. Your answer should be based on information provided only. Calculators are not allowed in this test and you should submit every scratch paper after the test before taking your leave.

1 Two equal circles are cut out of a rectangle of card of dimensions 16 by 8. The circles have the maximum diameter possible. What is the approximate area of the paper remaining after the circles have been cut out?

A. 104
B. 78
C. 54
D. 27
E. 13

2 If a and b are both positive, which of the following is a simplification of the expression ?

A. $a^2 + b^2 + 1$
B. $a + b$
C. $a - b$
D. ab
E. it cannot be simplified further

$$\frac{a^2 - b^2}{a + b} =$$

3 x = y - (50/y), where x and y are both > 0
If the value of y is doubled in the equation above, the value of x will

A. decrease
B. stay the same
C. increase four fold
D. double
E. increase to more than double

4 The number 0.127 is how much greater than 1/8 ?

A. ½
B. 2/10
C. 1/50
D. 1/500
E. 2/500

5 Which of the following could not be the lengths of the sides of a right angled triangle?

A. 3, 4, 5
B. 5, 12, 13
C. 8, 15, 17
D. 12, 15, 18
E. 9, 12, 15

6 Sheila works 8 hours per day on Monday, Wednesday and Friday, and 6 hours per day on Tuesday and Thursday. She does not work on Saturday and Sunday. She earns $324 per week. How much does she earn in dollars per hour?

A. 11
B. 10
C. 9
D. 8
E. 7

7 If the product of 6 integers is negative, at most how many of the integers can be negative?

A. 2
B. 3
C. 4
D. 5
E. 6

8 If a positive integer n, divided by 5 has a remainder 2, which of the following must be true?

I   n is odd
II   n + 1 cannot be a prime number
III   (n + 2) divided by 7 has remainder 2

A. none
B. I only
C. I and II only
D. II and III only
E. I, II and III

9 A machine puts c caps on bottles in m minutes. How many hours will it take to put caps on b bottles?

A. 60bm/c
B. bm/60c
C. bc/60m
D. 60b/cm
E. b/60cm

10 Paint needs to be thinned to a ratio of 2 parts paint to 1.5 parts water. The painter has by mistake added water so that he has 6 litres of paint which is half water and half paint. What must he add to make the proportions of the mixture correct?

A. 1 litre paint
B. 1 litre water
C. ½ litre water and one litre paint
D. ½ litre paint and one litre water
E. ½ litre paint

11 If a² = 12, then a4 =

A. 144
B. 72
C. 36
D. 24
E. 16

12 If n is even, which of the following cannot be odd?

I   n + 3
II   3n
III   n² - 1

A. I only
B. II only
C. III only
D. I and II only
E. I, II and III

13 One side of a triangle has length 8 and a second side has length 5. Which of the following could be the area of the triangle?

I   24
II   20
III   5

A. I only
B. II only
C. III only
D. II and III only
E. I, II and III

14 A certain animal in the zoo has consumed 39 pounds of food in six days. If it continues to eat at the same rate, in how many more days will its total consumption be 91 pounds?

A. 12
B. 11
C. 10
D. 9
E. 8

15 A perfect cube is an integer whose cube root is an integer. For example, 27, 64 and 125 are perfect cubes. If p and q are perfect cubes, which of the following will not necessarily be a perfect cube?
A. 8p
B. pq
C. pq + 27
D. -p
E. (p - q)6

16

n is an integer chosen at random from the set {5, 7, 9, 11 }
p is chosen at random from the set {2, 6, 10, 14, 18}
What is the probability that n + p = 23 ?

A. 0.1
B. 0.2
C. 0.25
D. 0.3
E. 0.4

17

A dress on sale in a shop is marked at $D. During the discount sale its price is reduced by 15%. Staff are allowed a further 10% reduction on the discounted price. If a staff member buys the dress what will she have to pay in terms of D ?

A. 0.75D
B. 0.76D
C. 0.765D
D. 0.775D
E. 0.805D

18

Amakiri spent N125 for a camera and some film. The camera cost N100 more than the film. What percent of the cost of the two items did Amakiri spend for the camera?

A. 40%
B. 90%
C. 60%
D. 100%
E. 20%

19

If I give you seven apples, you will then have five times as many as I would then have, however, if you give me seven apples, we will then both have the same number of apples. How many apples do we currently have?

A. I have 24 apples and you have 18 apples.
B. I have 10 apples and you have 32 apples.
C. I have 18 apples and you have 24 apples.
D. I have 14 apples and you have 28 apples.
E. I have 12 apples and you have 20 apples

20

If it takes Seyi twenty minutes to boil an egg in 1.5 litres of water, how long will it take Ala who is 3 years older than Seyi to boil 4 eggs in 1.5 litres of water?

A. 10 minutes
B. 20 minutes
C. 25 minutes
D. 5 minutes
E. 80 minutes

21

Amakiri bought a bike for N20 and gave the bike dealer a cheque for N30 to pay for it. The bike dealer persuaded a shopkeeper to change the cheque for him. Amakiri having received his N10 change, rode off on the bike and was not seen again. Later, the cheque was found to be valueless and the bike dealer had to refund the shopkeeper the amount he had received. The bike dealer had bought the bike for N10.
altogether? How much did the bike dealer lose

A. N40
B. N30
C. N20
D. N10
E. The bike dealer did not lose any money

22

There are ten teams in a basketball league. During the season, each team plays the others five times. How many games are played in the basketball league in total?

A. 45
B. 125
C. 225
D. 450
E. 925

23

How many two cent stamps are there in a dozen?

A. 2
B. 10
C. 12
D. 24
E. 30

24

Mr. Kalada is three times as old as his son. After fifteen years, Mr. Kalada will be twice as old as his son's age at that time. Hence, Mr. Kalada's present age is .

A. 48
B. 45
C. 42
D. 36
E. 28

25

What number comes next in this sequence?
917452, 97452, 9745, 975, ?

A. 975
B. 974
C. 97
D. 95
E. 94

26

Nnaemeka markets his goods to gain 45%. He allows 10% discount for cash. Find his percentage profit when sold for cash

A. 30.5%
B. 34.5%
C. 36.5%
D. 38.5%
E. 34.2%

27

If during a one-year period, the dividend paid on a certain share of stock was equal to 8 percent of the par value of the stock, then what is the fraction of the dividend paid of the par value of the stock?

a. 1/50
B. 1/25
C. 2/25
D. 2/50
E. 2/100

28

Tammy bought excercise books at 5,000 naira a gross. What is the price of one exercise book?
A. 36.72 naira
B. 45.72 naira
C. 41.72 naira
D. 34.72 naira
E. Insufficient data

29

432 naira is divided amongst three workers Boma, Soty and Titi such that 8 times Boma's share is equal to 12 times Soty's share which is equal to 6 times Titi's share. How much did Boma get?
A. 192 naira
B. 133 naira
C. 144 naira
D. 128 naira
E. 115 naira

30

In 1997, a particular item A cost N2,500. In 1998, the price of A went up 20% because of inflation while in early 1999 there was a 10% increase in the price of A over its 1998 price. In June of 1999, A was put on sale with a 30% decrease in price. What is the actual price it was sold for?

A. 2500
B. 2400
C. 2310
D. 2110
E. 2210

31 Two trains running on the same track travel at the rates of 25 and 30 miles an hour. If the first train starts out an hour earlier, how long will it take the second train to catch up A. 5% with it?

A. 2hr
B. 3hr
C. 4hr
D. 5hr
E. 1hr

32 Seyi prefers 16 to 17, 400 to 401 and 100 to 103. Which of the following numbers below does she prefer?

A. 120
B. 301
C. 225
D. 171
E. 404

33 What is N in the series? 6, 9, 27, 54, N, 2241.

A. 108
B. 675
C. 1125
D. 2041
E. 2423

34 When rope is selling at $.20 a foot, how many feet can you buy for eighty cents?

A. 6 feets
B. 18 feets
C. 3 feets
D. 4 feets
E. 60 feets

35 Your portable calculator is low on batteries again. The following multiplication is wrong. Each line has the correct numbers, but mixed up. The solution is correct though.
What is the correct multiplication?
2147 *
3725
22084429

A. 1427 * 5237
B. 7421 * 3235
C. 2147 * 2735
D. 2147 * 7325
E. 4217 * 5237

36

The Roman numeral 60 MCMLXXXIV is ._____

A. 1984
B. 1994
C. 1874
D. 1884
E. 1918

37

Divide 80 by 1/2 and add 40 to the result. What is the final answer?

A. 80
B. 120
C. 160
D. 200
E. 240

38

The monthly salaries of Kunle and Femi are in the ratio of 4:7. If each receives an increase of 25 naira in the salary, the ratio is altered to 3: 5. Find their respective salaries.

A. 120 naira and 210 naira
B. 80 naira and 140 naira
C. 180 naira and 300 naira
D. 200 naira and 350 naira
E. 250 naira and 500 naira

39

What is the number that is one half of one quarter of one tenth of 400?

A. 5
B. 15
C. 8
D. 10
E. 40

40

James said that he was born on February 29, 1900. What birthday will he celebrate in the year 2000?

A. 100
B. 1,000
C. 101
D. 1,0001
E. None of the above

41 In how many ways can Ann, Bea, Cam, Don, Ella and Fey be seated if Ann and Bea cannot be seated next to each other?

A. 240
B. 360
C. 480
D. 600
E. 250

42 If two typist can type two pages in two minutes, how many typists will it take to type 18 pages in six minutes?

A. 3
B. 4
C. 6
D. 12
E. 36

43 Complete the sequence in the series 25, 100, 225, 400, 625,_____

A. 725
B. 775
C. 825
D. 900
E. 925

44 The Roman numeral MDCCCLXXXVIII is ._____

A. 1878
B. 1888
C. 1988
D. 1899
E. 1818

45 If a sum of money compounded annually amounts to thrice itself in 3 years. In how many years will it become 9 times itself?

A. 4 years
B. 5 years
C. 6 years
D. 7 years
E. 8 years

46 What percent of 15 is 15 percent of 1?

A. 0.001
B. 0.01
C. 0.1
D. 1
E. 10

47 What is the number of triangles in an octagon?

A. 326
B. 120
C. 56
D. 180
E. cannot be determined

48 There are two dogs in each corner of a room shaped like an octagon. How many dogs are in the room?

A. 8
B. 10
C. 12
D. 14
E. 16

49 A bank department employs 2800 people of whom 70 percent are cash officers and one-fourth are marketing officers. The number of employees in the bank who are neither cash officers nor marketing officers is .

A. 235
B. 250
C. 140
D. 155
E. 160

50 The price of a product is reduced by 30%. By what percentage should it be increased to make it 100%?

A. 38.758%
B. 42.857%
C. 62%
D. 70%
E. None of the above

Answer Keys
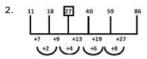
Answers to Problem Solving Set-1 (Page 7 - 17)

1	D	2	A	3	E	4	C	5	B	6	A	7	D
8	E	9	C	10	B	11	C	12	E	13	D	14	E
15	C	16	A	17	A	18	C	19	E	20	B	21	B
22	B	23	C	24	D	25	D	26	B	27	C	28	D
29	A	30	A	31	D	32	C	33	C	34	A	35	C
36	A	37	B	38	E	39	D	40	C	41	D	42	B
43	A	44	C	45	C	46	B	47	E	48	E	49	A
50	C												

Answers to Problem Solving Set-2 (Page 19-28)

1	D	2	C	3	E	4	D	5	D	6	C	7	D
8	A	9	B	10	A	11	A	12	B	13	D	14	E
15	C	16	A	17	C	18	B	19	D	20	B	21	C
22	C	23	C	24	B	25	C	26	A	27	C	28	D
29	C	30	C	31	D	32	C	33	B	34	D	35	E
36	A	37	A	38	D	39	B	40	E	41	C	42	C
43	D	44	B	45	C	46	D	47	C	48	E	49	C
50	B												

1.

The correct sequence is given above.
There should be 60 in place of 59.
Answer=D

2.
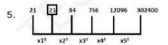
There should be 27 in place of 30.
Answer=A

3. The series is
$2^3 - 3 = 5$, $3^3 - 4 = 23$,
$4^3 - 5 = 59$ $5^3 - 6 = 119$,
$6^3 - 7 = 209$, $7^3 - 8 = 335$
Hence, there should be 23 in place of 30.
Answer=E

4.

Hence, there should be 380 in place of 385.
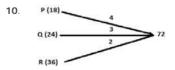**Answer=C**

5.

Hence, there should be 21 in place of 29.
Answer=B

6.
Total number of $students = \sqrt{(3\&29791)} = 31$
Answer=A

7. Cost price of the article :

$$= 5000 \times \frac{75}{100} \times \frac{90}{100} + 5000 =$$

Profit percent

$$= \frac{50,000 - 38750}{38750} \times 100$$

= 29.03% gain
Answer= D

8. Five years ago, their average age was 9
Today, their average age is 9+5=14
One of the boys is now 17
Let T=total ages of the four boys today.
Today average=14=T/4 , T=56
Total age of the remaining 3 boys = T – 17
= 56-17 = 39
If X is the age of the youngest,
Then X + (X+1) + (X+2) = 39.
3X+3=39
X=36/3 = 12
Answer = E

9. SP = 100, SP (with tax) = 130
New SP = 100 - 5 = 95
Effective discount = 130 - 95 = 35
So, when SP of 95, discount = 35
And when SP of N.16,150,
discount = 35/95×16150 = N.5,950.
Answer=C

10.

Units of work done in 3 days
= (2 + 3 + 4) = 9
∴ 72 units of work will be done in
= 3 x 8 = 24 days
Answer=B

11. Male manager $= \frac{5}{9}$ x 2700 = 1500

Female Manager $= \frac{4}{9}$ x 2700 = 1200

Male Officers $= \frac{9}{22}$ x 2200 = 900

Female Officers $= \frac{13}{22}$ x 2200 = 1300

Procurement Department:
Total female employees = 1200 + 1300
= 2500Total male employees
= 1500 + 900 = 2400
∴ Required percentage more

$= \frac{2500 - 2400}{2400}$ x 100 = 4%

Answer=C

12. Female managers in Finance department
$= \frac{11}{25}$ x 2500 = 1100

Male managers in Sales department

$= \frac{9}{16}$ x 2400 = 1350

Required percentage

$= \frac{1100}{1350}$ x 100 = 81%

Answer = E

13. Female managers in Operation and
Finance departments together

$= \frac{4}{11}$ x 2200 + $\frac{11}{25}$ x 2500

= 800 + 1100 = 1900
Male officers in Operation and Finance
department together

$= \frac{6}{14}$ x 2800 + $\frac{17}{32}$ x 3200

= 1200 + 1700 = 2900 ∴
Required ratio = 19: 29
Answer= D

14. Male officers in Advertising and Sales
Departments

$= \frac{9}{16}$ x 1600 + $\frac{8}{13}$ x 2600

= 900 + 1600 = 2500 ∴
Required percentage

$= \frac{2500}{1600 + 2600}$ x 100 = 59.5%

Answer=E

15. Female officers in Advertising and
Public relation

$= \frac{7}{16}$ x 1600 + $\frac{11}{20}$ x 2500

= 700 + 1375 = 2075 Female managers
in Advertising and Public Relation

$= \frac{17}{29}$ x 2900 + $\frac{4}{9}$ x 1800

= 1700 + 800 = 2500 ∴
Required difference = 2500 - 2075 = 425
Answer=C

16. Given number = 169q + 78
= 13 (13 q + 6)
> The number is completely divisible by 13.
Answer=A

17. P = 90*100/(2*10) = 450
C.I = 450(1+(10/100))^2 – 450
= 450 * 121/100 - 450 =94.5
Answer = A

18. => 2 x pi x r = 6600/15 =440m
==> r = 70m
Area = pi x r ² = 22/7 x 70 x 70 = 15,400
Total cost = 15,400 x 50=7,70,000

Answer=C

19. P,Q and R salaries Ratio = 5:3:2
= 500:300:200
If P Salary Increases 20% = 500×(20/100)
= 100 => 500+100 = 600
If Q Salary Increases 10%
= 300×(10/100) = 30 => 300+33
= 330 If R Salary Increases 20%
= 200×(20/100) = 40 => 200+40
= 240 New Ratios = 600:330:240
= 20:11:8
Answer=E

20.
Following the pattern shown in the number
sequence below, the missing number is 27.

1, 3, 9, ___, 81, 243
=
3^0, 3^1, 3^2, 3^3, 3^4, 3^5

Answer=B

21. First you must realize that the sum of two
2-digit numbers cannot be more that
198 (99 + 99).Therefore in the given problem
D must be 1.
Now use trial and error to satisfy the sum
5A + BC = 143
A + C must give 3 in the units place,
but neither can be 1 since all the digits
have to be different.
Therefore A + C = 13.
With one to carry over into the tens column,
 1 + 5 + B = 14, and B = 8.
A + C + B + D = 13 + 8 + 1 = 22

Answer= B

22.
Total volume of water = 12 liters = 12 x
1000 cm3
The base of the aquarium is 50 x 30 =
1500cm3
Base of tank x height of water = volume
of water
1500 x height = 12000; height = 12000 /
1500 = 8

Answer=B

23. 1 < 4n + 7 < 200
n can be 0, or -1
n cannot be -2 or any other negative
integer or the expression 4n + 7 will be
less than1.
The largest value for n will be an integer
< (200 - 7) /4
193/4 = 48.25, hence 48
The number of integers between -1 and
48 inclusive is 50
Answer=C

24.
If pqr = 1, none of these variable can be
zero. Since spr = 0 , and since p and r are
not zero, s must be zero. (Note that
although rst = 0, and so either s or t must
be zero, this is not sufficient to state
which must be zero)
Answer=D

25.
0.089 to the nearest tenth = 0.1
1.135 to the nearest tenth = 1.1
0.1 - 1.1 = -1

Answer = D

26. Answer = B

27.
6,16,26,36,46,56,60,61,62,63,64,65,66,67,68,
69,76,86,96 (66 is a double 6)
Answer=C

28. Answer = D

29. Area of square = L^2
$81 = L^2$
$L = 9cm$
Answer=A

30. The given number is of the form
$169x+78 = 13(13x)+13$ **x** 6

Factor out 13; $=13(13x+6)+0$

The remainder when the given number is
divided by 13 is 0.
Answer=A

31.
There are several ways to solve this, but in
this case, bolt-tie multiplication method is
faster.
We say
if   **5 = 160,**
then **8 = ?**
Boys = $(8x160)/5 = 256$
Total = $256+160 = 416$
Answer = D

32.
2 = X/100 of 50
$=4\%$
Answer=C

33. (5 of 13) – (4 + 19) of 2 ?
Follow BODMAS,
$65-46 = 19$
Answer=C

34.
Note that 6cent = $0.6

Answer=A

35. Representation:
Let L = number of pages printed Larger
type
S = number of pages printed smaller type

Translate given sentences to mathematical
sentences.
the article is alloted 21 full pages in a
magazine. -->L + S = 21
1,800L + 2, 400S = 48, 000, divide 100
18L + 24S = 480

Solve:
L + S = 21
18L + 24S = 480
-18 (L + S = 21)
18L + 24S = 480
-18L - 18S = 378
18L + 24S = 480

6S = 102
S = 17 --> pages printed in smaller type

Answer = C

36. 1G=2.5
   ?G=5
     =2
Answer = A

37.
Reframe: what percent of 600 is 12
Answer=B

38. Note that the first statement says "Half"
$\{[30/(0.5)]+10\}x3 + 6 =216$
Answer = E

39. Perimeter or Circumference = 2-Pie-R
2 X 22/7 X R = 44
R=7
Answer=D

40. 25,24,22,19,15,___
25-1=24,
24-2=22
22-3=19
15-5=10
Answer=C

41. To solve a pair of simultaneous equations such as those given we can add or subtract them.
Adding we get $4x + 4y = 20$
Therefore $2x + 2y = 10$
Answer = D

42.
Let the original price of the cycle be 100.
After the first reduction the price will be 75.
This new price is then reduced by 20% = 0.8 x 75 = 60
60 represents a reduction of 40 percent on the original.
Answer=B

43. Expand as for $(a - b)2$.
$(\sqrt{2} - \sqrt{3})(\sqrt{2} - \sqrt{3})$
$= 2 - 2(\sqrt{2} \times \sqrt{3}) + 3$
$= 5 - 2\sqrt{6}$
Answer=A

44.
All four terms are identical therefore we have 4 (230).
But 4 = 22, and so we can write 22. 230
Which is equivalent to 232
Answer=C

45.
You could solve this by drawing a Venn diagram. A simpler way is to realize that you can subtract the number of students taking both languages from the numbers taking French to find the number taking only French. Likewise find those taking only German.
Then we have : Total = only French + only German + both + neither
78 = (41-9) + (22-9) + 9 + neither.
Not enrolled students = 24

Answer = C

46. One way to deal with fractions is to convert them all to decimals.
In this case all you would need to do is to see which is greater than 0.5.
Otherwise to see which is greater than ½, double the numerator and see if the result is greater than the denominator. In B, the correct answer, doubling the numerator gives us 8, which is bigger than 7.
Answer = B

47.
If an object travels at 5 feet per second it covers 5x60 feet in one minute, and 5x60x60 feet in one hour. Answer = 18000 (E)
Answer=E

48.
You could add up all the multiples of 10 (10 + 20 + 30 ....+190), and divide by the number of terms (19). Or you could realize that the average of an evenly spaced series of numbers is equal to the value of the middle term (or the average of the two middle terms if there are an even number of terms). The middle term out of 19 is the tenth term in the series = 100.
Answer = E

49. If you double the sides of a cube, the ratio of the surface areas of the old and new cubes will be 1: 4. The ratio of the volumes of the old and new cubes will be 1: 8.
Weight is proportional to volume. So, If the first weighs 6 pounds, the second weighs 6x8 pounds =48.
Answer=A

50. The fence will consist of one more post than there are chains. (e.g. P-c-P-c-P). Therefore, a total length has to be a multiple of the length of the chain plus one post (5.5) plus one post extra.
We have length = (5.5n + 0.5), where n can be any positive whole number. If n= 3, length =17; if n= 5, length = 28, etc.
but there is no whole number that can give 35. hence C is the correct answer.
Answer=C

In this section you will be required to take Verbal reasoning questions. You are advised to work quickly and as correctly as possible. Each question should take about 1 minute to complete.
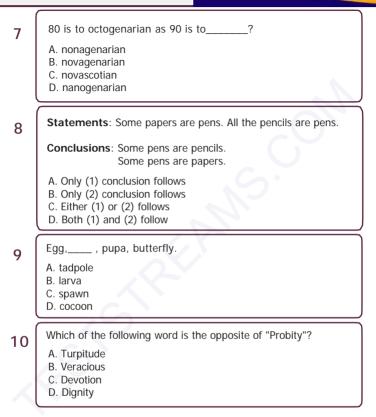There are **50questions** in this section to answer within **30minutes**

Instruction (1-4)

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.

1

To leave someone in the lurch is to _____?

A. come to compromise with someone
B. constant source of annoyance to someone
C. put someone at ease
D. desert someone in time of difficulty

2

To hit the nail right on the head is to _____?

A. be exactly correct
B. destroy one's reputation
C. announce one's fixed views
D. teach someone a lesson

3

A shot in the dark is to _____?

A. The job of the injured person
B. The job of the person dealing with the incident
C. Details of First Aid given
D. The name of the person dealing with the incident

4

To drive home a point is to _____?

A. find one's roots
B. return to place of rest
C. be back to original position
D. emphasize
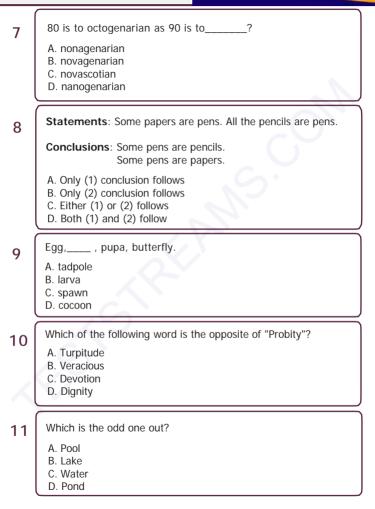
Instruction (5-6)

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

---

5 It was to be

P : before their school examination
Q : which was due to start
R : the last expedition
S : in a month's
The proper sequence should be _____?

A. SRQP
B. RQSP
C. RPQS
D. SPRQ

---

6 This time

P : exactly what he had been told
Q : the young man did?
R : beyond his dreams
S : and the plan succeeded
The proper sequence should be _____?

A. QPRS
B. QPSR
C. PQSR
D. QSRP

7

80 is to octogenarian as 90 is to_____?

A. nonagenarian
B. novagenarian
C. novascotian
D. nanogenarian

8

Statements: Some papers are pens. All the pencils are pens.

Conclusions: Some pens are pencils.
⠀⠀⠀⠀⠀⠀⠀Some pens are papers.

A. Only (1) conclusion follows
B. Only (2) conclusion follows
C. Either (1) or (2) follows
D. Both (1) and (2) follow

9

Egg,_____ , pupa, butterfly.

A. tadpole
B. larva
C. spawn
D. cocoon

10

Which of the following word is the opposite of "Probity"?

A. Turpitude
B. Veracious
C. Devotion
D. Dignity

7

80 is to octogenarian as 90 is to_____?

A. nonagenarian
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Statements: Some papers are pens. All the pencils are pens.

Conclusions: Some pens are pencils.
Some pens are papers.

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Which of the following word is the opposite of "Probity"?

A. Turpitude
B. Veracious
C. Devotion
D. Dignity

11

Which is the odd one out?

A. Pool
B. Lake
C. Water
D. Pond

12 Which vowel comes midway between J and T?

A. A
B. E
C. I
D. O

13 Pedro goes either hunting or fishing every day. If it is snowing & windy then Pedro goes hunting. If it is sunny and not windy then Pedro goes fishing. Sometimes it can be snowing and sunny.
QUESTION: Which of the following statements must be true:

A. If it is not sunny and it is snowing then Pedro goes hunting.
B. If it is windy and Pedro does not go hunting then it is not snowing.
C. If it is windy and not sunny then Pedro goes hunting.
D. If it is windy and sunny then Pedro goes hunting.

14 Pear is to Apple as Potato is to_____?.

A. banana
B. radish
C. strawberry
D. peach

15 Which is the odd one out?

A. Carbon
B. Aluminium
C. Copper
D. Iron

Instruction (16-22)

This question presents a sentence, part of which or all of which is underlined. Beneath the sentence you will find five ways of rephrasing the underlined part. The first of these repeats the original; the other four are different. If you think the original is best, choose option A, else pick one of the others.

16

John and Tim went to the bank and **he** made a deposit.

A. he
B. they
C. it
D. their
E. you

17

Although the average Girl Scout joins the organization at age 14, **they have already been Brownies** for several years.

A. they have already been Brownies
B. they were Brownies
C. she has already been a Brownie
D. she had already been a Brownie
E. she was in the Brownies

18

In 1980, the Netherlands agreed to limit fishing in certain Atlantic Ocean beds, but in 1981, **they terminated the agreement**.

A. they terminated the agreement.
B. they decided to terminate the agreement.
C. it terminated the agreement.
D. it was terminated.
E. it decided the agreement was terminated.

19 While brokers, as a rule, are not permitted to know executive access codes, in many instances **they are widely known.**
A. they are widely known
B. they are widely known to be
C. they are widely known by many
D. the codes are able to be widely known
E. the codes are widely known

20 Despite seeming **tame and intelligent**, the state troopers had no choice but to shoot the loose Gorilla.

A. Despite seeming tame and intelligent
B. Despite a tame and intelligent appearance
C. Although appearing to be tame and intelligent
D. Although it seemed tame and intelligent
E. However tame and intelligent in appearance

21 The number of workers **have increased steadily** each year.

A. have increased steadily
B. steadily have increased
C. have been increasing steadily
D. has increased steadily
E. has steadily been going through an increase

22 The commercial airliner flew too close to the military base, an act that the army saw **as** a violation of its air space.

A. as
B. as if it was
C. to be
D. that it was
E. for

Instruction (23-29)

The questions in this group are based on the content of a passage. After reading the passage, choose the best answer to each question. Answer all questions following the passage on the basis of what is stated or implied in the passage.

23

For the past five years, US consumption of eggs has decreased. The National Egg Council plans to reverse this trend by launching an advertising campaign extolling the healthful benefits of eggs.

Which one of the following, if true, will provide the strongest support for the National Egg Council's plan?

A. Eggs are a good source of protein.

B. Many former egg eaters now make omelets using egg substitutes.

C. Most people stopped eating eggs because they thought eggs were unhealthy.

D. Eggs contain unhealthy levels of cholesterol.

E. Eggs substitute makers launched an extensive marketing campaign six years ago.

24

In an effort to reduce the amount of fat and the number of calories that they consume, many citizens of the United States are making significant changes in their diets. For them staying in shape and looking fit now take precedence over eating foods that are filling and that taste good. It is likely that if they maintain these new priorities with consistent regard for other health issues, the length and quality of their lives will increase significantly.

Which one of the following is an assumption upon which the argument is based?

A. Eating foods that are filling and tastes good is inconsistent with staying in shape and looking fit.

B. Controlling the quality of one's life requires more than mere dietary adjustments.

C. A combination of diet and exercise is necessary if one wishes to stay in shape and look fit.

D. Many citizens of the United States have only recently dis-covered the importance of diet to living a longer, healthier life.

E. Staying in shape and looking good are current goals for most citizens of the United States.

25

 Singing in the Rain Umbrella Corp. plans to institute a marketing campaign in which it sells umbrellas at the exits of subway stations during rainy weather. The umbrellas will be sold at a price that is slightly higher than normal.

The company thinks the sales of these higher – priced umbrellas will be greater than normal sales of umbrellas, because the purchasers of these umbrellas will be forced to buy them if they do not want to get wet.

The author assumes which of the following about the purchasers of the umbrellas in predicting the sales of the umbrellas?

A. Customers who do not feel immediate pressure to purchase will not do so.

B. Normally priced umbrellas are not profitable for singing in the Rain Umbrellas Corp.

C. Very few people buy Singing in the Rain's normally priced umbrellas.

D. Singing in the Rain Umbrellas Corp. will have to stop selling normally priced umbrellas when it starts selling higher priced umbrellas.

E. Most potential customers of Singing in the Rain's higher priced umbrellas will not have acquired an umbrella previously.

26

A leading cement manufacture has been having problems processing manufacturing and delivery records since it expanded its operations. To solve this problem it plans to install a new platform on its central computing system which will run its tracking program five times faster than the current system does.

Which one of the following castes the most serious doubt on the manufacture's plan?

A. Not all computer platforms can make the company's tracking programs run more quickly

B. The cost of the new computer platform will require the cement manufacture to raise prices for its products.

C. The cement company's computer system does not have the capability to run the new platform and cannot be updated.

D. The company has been increasing the sales of cement by 1.5 percent a month for the past 18 months.

E. A completely new computer system could make the program run 6 times faster than it does currently.

27

Critics insist that government regulation of business has made it more difficult for American businesses to operate profitably and has destroyed their ability to compete with foreign producers of consumer goods. This argument is not compelling.

Government regulation of business was never as active in this nation as it was between the years 1975 and 1985, and in those years the average net worth of American family increased more than it had in any previous decade.

The author's argument would be most seriously weakened if it were true that

A. 80 percent of all businesses started during the decade 1975-1985 lost money in their first year.

B. More businesses declared bankruptcy during the period 1975-1985 than in any previous decade.

C. During the decade 1975-1985, America imported more consumer goods than it exported.

D. The increase in net worth of average American families during the years 1975-1985 was largely due to an increase in the value of residential homes.

E. The average interest rate charged on business and home mortgage loans was higher during the decade 1975-1985 than it had been in any previous decade.

28

A recession is not caused by any economic force other than nation wide loss of confidence. If the economy is perceived as being unstable, banks are conservative in lending money, investors take fewer risks and hence economic
growth is slowed.

Which of the following, if true, would most strengthen the argument above.

A. A recession is getting effected by the response of the Federal Reserve's setting of interest rates.
B. A recession can be brought on by the failure of a major bank that had been loaning money.
C. Slowed economic growth is not the only result of a recession.
D. When investors begin taking greater risks it is enough to stimulate economic growth.
E. It is a fallacy to assume that economic growth is necessary for economic stability.

29

In an effort to increase revenues, Arik Air recently partnered with several airlines to create a joint frequent-flier program. In the new program, miles earned on all partner airlines can be combined for reward tickets valid on any airline in the partnership.

Arik Air's CEO cites a recent increase in the number of passengers on all the partner airlines as evidence that the new frequent-flier program is having the desired effect. Industry analysts doubt the CEO's claim.

Which of the following, if true, best supports the analysts' positions?

A. Air travel tends to be seasonal, with more passengers traveling during warmer months and holiday periods.

B. The recent increase in passenger rates for all the partner airlines was predicted by the lowest rates of air travel in the last decade.

C. Many travelers achieved reward tickets more quickly under the new frequent-flier program and redeemed them recently for free travel.

D. Travelers redeemed frequent-flier rewards on Arik Air's partners more frequently than on Arik Air.

E. A study of frequent-flier programs showed that they generally result in increased long-term airline revenues.

This question presents a sentence, part of which or all of which is underlined. Beneath the sentence you will find five ways of rephrasing the underlined part.
The first of these repeats the original; the other four are different. If you think the original is best, choose option A, else pick one of the others

30

Neither my mother nor my father, <u>both of whom are English professors, agree with my contention that James Joyce's novel Ulysses is overrated.</u>

A. Both of whom are English professors, agree with my contention that James Joyce's novel Ulysses is overrated.

B. Both of whom are English professors, agrees with my contention that James Joyce's novel Ulysses is overrated.

C. Both of whom are English professors, agree with my contention that Ulysses, a novel by James Joyce is overrated.

D. Each of whom is an English professor, agree with my contention that James Joyce's novel Ulysses is overrated.

E. English professors the both of them agrees with my contention that James Joyce's novel Ulysses is overrated.

31 A number of military personnel who served in Operation Desert Storm <u>has encountered a series of unexplainable symptoms that were attributed to</u> Gulf War syndrome.

A. has encountered a series of unexplainable symptoms that were attributed to

B. has unexplainably encountered a series of symptoms that have been attributed as

C. have encountered a series of unexplained symptoms that have been attributed as

D. have encountered a series of unexplainable symptoms that have been attributed to

E. have encountered unexplainably a series of symptoms that were attributed as

32 Although Smith <u>once championed the charity</u>, he changed his mind after journalist linked its origin to a corrupt individual.

A. once championed the charity

B had once championed the charity

C has once championed the charity

D was a champion of the charity

E championed the charity at one time

33 A swarm of desert honeybees, a phenomenon seen by <u>few of the select scientists and entomologists, occur when a portion of the colony leave</u> the current nest to find a new home.

A. few of the select scientists and entomologists, occur when a portion of the colony leave

B. a select few scientists and entomologists, only occurs when portions of the colony leaves

C very few selected scientists and entomologists, occur when portions of thecolony leave

D. only very few selected scientists and entomologists, occurs when a portion of the colony leaves

E. only a select few scientists and entomologists, occurs when a portion of the colony leaves

34

Of the numerous decisions facing the Supreme Court this term, <u>the question of an individual's right to die is for certain the more perplexing</u>.

A. the question of an individual's right to die is for certain the more perplexing
B. it seems certain that the more perplexing is the question of an individual's right to die
C. the question of an individual's right to die is certainly the most perplexing
D. it seems certain the question of an individual's right to die is the most perplexing
E. the question of an individual's right to die is certainly the more perplexing

35

The Supreme Court can effectively rule on a case in two ways, <u>either by deciding to hear the case and handling down its judgment, or rather to simplify refuse</u> to hear the case at all.
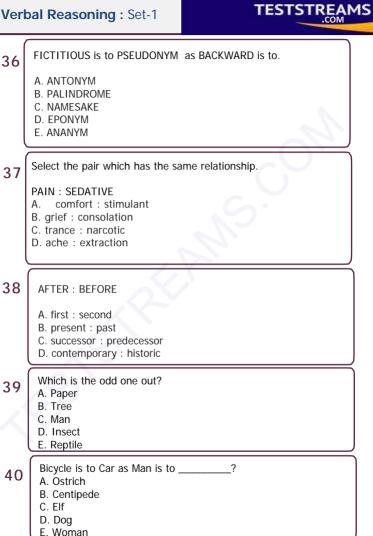
A. either by deciding to hear the case and handing down its judgment, or rather to simplify refuse
B. either by deciding to hear the case and handing down its judgment, or by simplify refusing
C. by either deciding to hear the case and hand down its judgment or to simplify refuse
D. to hear a case and to hand down its judgment, or to refuse simply
E. either by deciding to hear the case and hand down its judgment, or the simple refuse

36

FICTITIOUS is to PSEUDONYM as BACKWARD is to.

A. ANTONYM
B. PALINDROME
C. NAMESAKE
D. EPONYM
E. ANANYM

37

Select the pair which has the same relationship.

PAIN : SEDATIVE
A.   comfort : stimulant
B. grief : consolation
C. trance : narcotic
D. ache : extraction

38

AFTER : BEFORE

A. first : second
B. present : past
C. successor : predecessor
D. contemporary : historic

39

Which is the odd one out?
A. Paper
B. Tree
C. Man
D. Insect
E. Reptile

40

Bicycle is to Car as Man is to _____?
A. Ostrich
B. Centipede
C. Elf
D. Dog
E. Woman

Answer Keys

Answers to Verbal Reasoning (Page 36 - 54)

1	D	2	A	3	D	4	D	5	C	6	B	7	A
8	D	9	B	10	A	11	C	12	D	13	A	14	B
15	A	16	B	17	C	18	C	19	E	20	D	21	D
22	A	23	C	24	A	25	A	26	C	27	D	28	D
29	D	30	B	31	D	32	E	33	C	34	C	35	B
36	E	37	B	38	C	39	A	40	D				

16. (B). Who made a deposit? You can't tell. They is the only pronoun that creates a clear reference and agreement.

17. (C). Use the 2/3 split. The pronoun refers to the average Girl Scout, so it should be she. Eliminate (A) and (B). One difference among the others is has vs. had. vs. was. The verb tense needs to be consistent with joins, so use has and choose (C).

18. (C). They Netherlands is an it (as is the United States) not a they. Eliminate (A) and (B). (D) terminates the Netherlands, always a bad idea. (E) is passive, so choose the active (C).

19. (E). Step 1: The 2/3 split shown in italics (which doesn't happen on the real test) is they vs. the codes. You want the codes because they is ambiguous; it could refer to brokers or codes. Step 2: Eliminate (A), (B), and (C). Step 3: The difference between (D) and (E) is able to be. Codes aren't able (only people are), so choose (E).

20. (D). (A) has a misplaced modifier because it suggests that the troopers were tame and intelligent. (B), (C), and (E) change the words around a little , but they still repeat this error.(D) fixes the misplaced modifier by turning the phrase into a clause. The pronoun it is okay because the only noun it could match is the loose gorilla.

21. (D). Subject is The number, which is singular (a number is plural). Eliminate (A), (B), and (C). (D) is shorter and simpler than (E).

22. (A). The idiom is see/saw...as and only (A) gets it right.

23. (C). Support for the argument are the identifying words. C: Increase egg consumption with health ads. P: None worth mentioning. A: Health is an issue for potential egg-eaters.
(A) and (B) aren't bad, but they require you to infer a connection between eggs, health, and consumers' concerns rather than stating it outright. (C) clearly shows consumers are concerned with eggs' health effects. (D) weakens the argument. (E) is out of scope.

24. (A). ID the question: Assumption is an obvious key word. Work the argument: C: If people maintain the new priorities (changes in diet), the length and quality of their lives will increase. P: People are making changes to their diets (a subsidiary conclusion) because they'd rather be fit than eat foods that are filling and taste good. Gap: better diet——longer life and changes to diet——filling, good-tasting foods. POE: (B) is irrelevant. If anything, this weakens by suggesting that changes in diet aren't enough. (C) is irrelevant. This goes along with the general idea, but it's not strictly necessary. In (D), the time of discovery is irrelevant. In (E), the goals of most citizens are irrelevant. You're only interested in the people who are acting on their goals. (A) fills in the assumption needed to make the subsidiary conclusion true. If eating filling, goodtasting foods is inconsistent with staying in shape and looking fit, people who

want to stay in shape and be fit are willing to give them up. They will maintain good habits and live longer, better lives.

25. (A) ID the question: Assume is an obvious key word. Work the argument: C: Sales of umbrellas at subway exits while it's raining will be greater than normal sales. P: People will be forced to buy umbrellas if they don't want to get wet. A: They don't have umbrellas with them. They are unwilling to get wet. POE: In (B), profitability of normally priced umbrellas is irrelevant. In (C), sales of normally priced umbrellas are irrelevant. (D) doesn't deal with the issue. (E) looks good, but it's not right. Potential customers might have umbrellas, but the issue is whether they have an umbrella with them. (A) makes the link. If it's raining and you don't have an umbrella, you feel the pressure to make a purchase. On some assumption questions, you may have a lot of difficulty spotting the necessary assumption due to the way the answers are worded. This is particularly true with answer choices containing negative words such as not and never.

One way to check whether an answer choice is a necessary assumption is to negate, or reverse, that answer. If the negation would weaken the argument, that answer is a necessary assumption.

26. (C) ID the question: The keys words are casts the most doubt. Work the argument: C: The company will install the faster platform on its computer system. P: The company can't process its records fast enough anymore. Gap: New platform——fixing current problems. A: (1) Speed won't compromise accuracy; (2) the computer can run the program.

(C) attacks assumption #2. (B) strengthens the argument; (A) is irrelevant (what if the platform the company has in mind can do the job?). (D) only addresses the company's expansion, and (E) is irrelevant.

27. (D) ID the question: The key words are most seriously weakened. Work the argument: C: The idea that government regulation hinders profits is invalid. P: From 1975–1985, when government regulation was very active, the average net worth of American families rose. Gap: Business profits——families' net worth. A: The profitability of businesses caused the average net worth of American families to rise. (D) provides an alternate reason why families were richer. (A) Is 80% better or worse than normal? Irrelevant. (B) Isn't strong enough because it doesn't list bankruptcies as a percentage of the whole. (C) Is out of the scope. If (E) were true, how would average net worth of families rise?

28. (D) Identify the question: The key word is strengthen. Work the argument: C: A recession is caused only by a national loss of confidence. P: If people think the economy is sluggish, they won't invest. (D) strengthens the link between investor confidence and economic growth by stating that greater investment strengthens the economy. (A) and (B) weaken the conclusion by offering other causes for a recession. (C) is backward; we don't care what recessions cause; we care what causes a recession. In (E), economic stability is never mentioned.

29. (D) Read the question carefully. It asks you to support the analyst's position, not the CEO's. The analysts argue that the CEO is wrong to say that increase in passengers on partner airlines is evidence that the program is working to increase revenues. P: The joint frequent flier program allows miles earned on partner airlines to be combined for reward tickets on any airline. There's been an increase in the number of passengers on the partner airlines. You need to show that the frequent flier plan is NOT increasing revenues for Arik Air. POE: (A) is irrelevant. (B) is irrelevant. (C) goes along the CEO's position, not that of the analysts. (E) supports the CEO's position. Only (D) supports the analysts' position.

30. (B) Another common subject-verb agreement issue arises when a sentence has a compound subject. The split is agree/agrees. With neither...nor, the verb agrees with the subject closest to it, so father is the subject. Eliminate choices with plural verbs. (A), (C), and (D) are out. Choice (E) contains awkward, unidiomatic wording (English professors the both of them). (B) is the answer.

31. (D) The number/a number is an ETS favorite. A number is plural; eliminate (A) and (B). The next split is attribute...as/attribute...to. The idiom is attribute to, so (C) and (E) are out. (D) is the answer.

32. (B) The tense shifts in the answer choices. Two events happened in the past, and one happened earlier than the other did (Smith championed the charity, and then he changed his mind). The past perfect tense is best to convey this meaning. (A), (C), (D), and (E) don't use the correct tense. Choose (B).

33. (E) This example has modifier problems because only moves around in the answer choices and because of the select/selected split. Only should emphasize a select few scientists. However, it's probably easier to work the subject-verb error first. Start with the leave/leaves or occur/occurs split. The subject, swarm, is singular. Eliminate (A) and (C) because occurs is plural. Eliminate (B) because portions does not agree with leaves.

The choice between (D) and (E) comes down to meaning. Selected means a group chosen by someone, while select means a special group. (E) is better at conveying the meaning of a small group of scientists who have been lucky enough to witness the swarm.

Need more Practice?

Study the next pages carefully.

1

If I give you seven apples, you will then have five times as many as I would then have, however, if you give me seven apples, we will then both have the same number of apples. How many apples do we currently have?

A. I have 24 apples and you have 18 apples.
B. I have 10 apples and you have 32 apples.
C. I have 18 apples and you have 24 apples.
D. I have 14 apples and you have 28 apples.
E. I have 12 apples and you have 20 apples.

The correct answer is option [D]

2

If it takes Seyi twenty minutes to boil an egg in 1.5 litres of water, how long will it take Ala who is 3 years older than Seyi to boil 4 eggs in 1.5 litres of water?

A. 10 minutes
B. 20 minutes
C. 25 minutes
D. 5 minutes
E. 80 minutes
The correct answer is option [B]

3

Amakiri spent N125 for a camera and some film. The camera cost N100 more than the film. What percent of the cost of the two items did Amakiri spend for the camera?

A. 40%
B. 90%
C. 60%
D. 100%
E. 20%
The correct answer is option [B]

4

How many two cent stamps are there in a dozen?

A. 2
B. 10
C. 12
D. 24
E. 30
The correct answer is option [C]

A dozen of anything is twelve (12)

5

The price of garri rose by 40% last week and fell by 40% this week. What is the total rise or fall in percentage?

A. 40%

B. 16%
C. 20%
D. 100%
E. 67%
The correct answer is option [B]

6

The average weight of a class of 24 students is 36 years. When the weight of the teacher is also included, the average weight increases by 1kg.
What is the weight of the teacher?

A. 37kgs
B. 45kgs
C. 61kgs
D. 72kgs
E. 75kgs
The correct answer is option [C]

7

Mr. Kalada is three times as old as his son. After fifteen years, Mr. Kalada will be twice as old as his son's age at that time. Hence, Mr. Kalada's present age is_____.

A. 48
B. 45
C. 42
D. 36
E. 28
The correct answer is option [B]

8

What number comes next in this sequence?
917452, 97452, 9745, 975, ?

A. 975
B. 974
C. 97
D. 95
E. 94
The correct answer is option [C]
97. The least digit in each number gets dropped.

9

There is a pole in a lake. One-half of the pole is in the ground, another one-third of it is covered by water, and 12 ft is out of the water. What is the total length of the pole in ft?

A. 12ft
B. 34ft
C. 56ft
D. 64ft
E. 72ft
The correct answer is option [E]

Student: How did I fare in English?
Teacher: Well, your average in English Language and English Literature is 75.

Student: So, how was my performance in the remaining subjects?
Teacher: I am sure you can figure that out for yourself.

Can you help the student find his average marks in the remaining subjects?

A. 75
B. 78
C. 82
D. 88
E. 89
The correct answer is option [E]

Solution:
Total marks in 4 subjects = 4 x 82 = 328.
Total marks in 2 English subjects = 2 x 75 = 150.
Total marks in remaining 2 subjects = 328 - 150 = 178.
Average marks in remaining 2 subjects = 178/2 = 89.

17
There are ten teams in a basketball league. During the season, each team plays the others five times. How many games are played in the basketball league in total?

A. 45
B. 125
C. 225
D. 450
The correct answer is option [C]
Each team plays 45 games (9 other teams multiplied by 5 games against each). Multiply 45 by the number of teams, and then divide by 2 since each game includes two teams.

18
A garrison of 3300 men has provisions for 32 days when given at a rate of 850 grams per head. At the end of 7 days reinforcement arrives and it was found that now the provisions will last 8 days less when given at the rate of 825 grams per head. How many more men can it feed?

A. 1500 men
B. 1600 men
C. 1700 men
D. 1900 men
E. 2000 men
The correct answer is option [C]

19
If 13 = 13w/(1-w), then (2w)2 =

A. 1/4
B. 1/2
C. 1
D. 2
E. 3
The correct answer is option [C]

20
A cricketer's average in his first 20 innings was 15 runs per innings. After a further 10 innings, his average had increased to 17 runs per innings. What was his average for the last 10 innings?

A. 19 runs
B. 18 runs
C. 17 runs
D. 20 runs
E. 21 runs
The correct answer is option [E]

His average was 21 runs per innings

21
A work is done by two people in 24 min. If one of them can do this work alone in 40 min, how much time is required to do the same work for the second person?

A. 24 min
B. 35 min
C. 40 min
D. 60 min
E. None of the above
The correct answer is option [D]
Solution
(A+B) can do the work in = 1/24 min.
A alone can do the same work in = 1/40 min.
B alone can do the same work in = (A+B)'s - A's = 1/24 - 1/40 = 1/60
Therefore, b can do the same work in = 60 min

22
Find a number whose double exceeds its half by exactly 99.

A. 33
B. 44
C. 55
D. 66
E. 77
The correct answer is option [D]

23

Two cogged wheels of which one has 32 cogs and the other 54 cogs, work into each other. If the latter turns 80 times in three quarters of a minute, how often does the other turn in 8 seconds?

A. 48
B. 24
C. 135
D. 138
E. None of the above
The correct answer is option [B]

24

A snake slides through a long cylindrical hole in the ground at 6 centimetres per second. The hole is 7.5 metres in length. The snake takes 14 seconds to enter the hole. How many seconds does the snake take to exit the hole after entering it?

A. 125 seconds
B. 120 seconds
C. 110 seconds
D. 105 seconds
E. 90 seconds
The correct answer is option [A]

The snake has exited the hole when its tail just leaves the hole. The distance traveled from the time the snake's tail just enters the hole till its tail just leaves the hole equals the length of the hole. Thus,

Time for the snake to exit the hole after entering it = Length of the hole / Speed = = (7.5 m) / (6 cm/s) = (750 cm) / (6 cm/s) = 125 seconds.

25

Seyi, during a half-price sale, bought a book for the usual price and a second book for one-half the usual price. If she paid 90 kobo for the 2 books, what was the usual price for a book?

A. 40k
B. 50k
C. 60k
D. 70k
E. 80k
The correct answer is option [C]

26

An inter-agency task force has representatives from 3 different agencies. Half of the task force members represent agency A, one-third represent agency B and three represent agency C. How many people are on the task force?

A. 12
B. 30
C. 24
D. 18
E. 15
The correct answer is option [D]

27

At 10 a.m. two trains started traveling toward each other from stations 287 miles apart. They passed each other at 1:30 p.m. the same day. If the average speed of the faster train exceeded the average speed of the slower train by 6 miles per hour, which of the following represents the speed of the faster train, in miles per hour?

A. 38 mi/h
B. 40 mi/h
C. 44 mi/h
D. 48 mi/h
E. 50 mi/h
The correct answer is option [C]
$da = a * 3.5 h$
Similarly, the distance traveled by the second train is
$db = b * 3.5 h$
We know that they started 287 miles apart, s
$da + db = 287 mi$
If we plug in our previous equations, we get

$(a * 3.5 h) + (b * 3.5 h) = 287 mi$
$(a + b) * 3.5 h = 287 mi$
$a + b = 287 mi / 3.5 h$
$a + b = 82 mi/h$
Now, the next thing we're told is that the average speed of the faster train exceeded the average speed of the slower train by 6 miles per hour. So

$a = b + 6$
If we plug that into the above equation, we get

$(b + 6) + b = 82 mi/h$
$2b + 6 = 82 mi/h$
$2b = 76 mi/h$
$b = 76 mi/h / 2$
$b = 38 mi/h$
Now that we know the speed of the slow train, we can find the speed of the fast train.

$a = b + 6 mi/h$
$a = 38 mi/h + 6 mi/h$
$a = 44 mi/h$

28

Nnaemeka markets his goods to gain 45%. He allows 10% discount for cash. Find his percentage profit when sold for cash.

A. 30.5%
B. 34.5%
C. 36.5%
D. 38.5%
E. 34.2%
The correct answer is option [A]

29

If during a one-year period, the dividend paid on a certain share of stock was equal to 8 percent of the par value of the stock, then what is the fraction of the dividend paid of the par value of the stock?

A. 1/50
B. 1/25
C. 2/25
D. 2/50
E. 2/100
The correct answer is option [C]

30

Each interger from 1 to 50, whose unit digit is a 3, is written on a separate slip of paper. If the slips are placed in a box and one is picked at random, what is the probability that the number picked is a prime?

A. 1/2
B. 2/3
C. 4/5
D. 3/4
E. 3/5
The correct answer is option [C]

31

One day a slug fell into a hole that was 19 feet deep. Each day he climbed up 4 feet. At night, he slid down 2 feet. How many days did it take him to climb out of the hole?

A. 6 days
B. 13 days
C. 11 days
D. 9 days
E. 7 days
The correct answer is option [D]

32

If 3/p = 6 and 3/q = 15 then p - q = _____.

A. 1/3

B. 2/5
C. 3/10
D. 5/6
E. cannot be determined
The correct answer is option [C]

33

Half the graduating class of a college was accepted by a business school. One third of the class was accepted by a law school. If one-fifth of the class was accepted to both types of school, what fraction of the class was accepted only by a law school?

A. 1/60
B. 2/15
C. 1/3
D. 1/2
E. 4/5
The correct answer is option [B]

34

Tammy bought excercise books at 5,000 naira a gross. What is the price of one exercise book?

A. 36.72 naira
B. 45.72 naira
C. 41.72 naira
D. 34.72 naira
E. Insufficient data
The correct answer is option [D]

35

432 naira is divided amongst three workers Boma, Soty and Titi such that 8 times Boma's share is equal to 12 times Soty's share which is equal to 6 times Titi's share. How much did Boma get?

A. 192 naira
B. 133 naira
C. 144 naira
D. 128 naira
E. 115 naira
The correct answer is option [C]

36

If 1/2 x years ago John was 12 and 1/2x years from now he will be 2x years old, how old will he be 3x years from now?

A. 18
B. 24
C. 30
D. 54
E. It cannot be determined from the information given

The correct answer is option [D]

37
Ala is half as old as Blessing, and Blessing is half as old as Qiana. If Ala is 18 years old, what is the sum of theirages?

A. 126
B. 36
C. 24
D. 45
E. 54
The correct answer is option [A]

38
When a student weighing 45 kgs left a class, the average weight of the remaining 59 students increased by 200g. What is the average weight of the remaining 59 students?

A. 57kgs
B. 56.8kgs
C. 58.2kgs
D. 52.2kgs
E. 50.2kgs
The correct answer is option [A]

39
To 15 litres of water containing 20% alcohol, we add 5 litres of pure water. What is the % of alcohol?

A. 5%
B. 10%
C. 15%
D. 20%
E. 25%
The correct answer is option [C]

40
A set of football matches is to be organized in a "round-robin" fashion, i.e., every participating team plays a match against every other team once and only once. If 21 matches are totally played, how many teams participated?

A. 15
B. 12
C. 7
D. 5
E. 3
The correct answer is option [C]

Solution:

If 7 teams participated, then the first team plays matches against the other 6 teams. The second team has already played against the first team, and so has to play matches against only the other 5 teams. In this manner, the second-last team has to play against only one team, and the last team has already played against all the teams. Thus, the total number of matchesis

$6 + 5 + \ldots\ldots + 2 + 1 = 21.$

If 21 matches are totally played, then 7 teams participated.

41
In 1997, a particular item A cost N2,500. In 1998, the price of A went up 20% because of inflation while in early 1999 there was a 10% increase in the price of A over its 1998 price. In June of 1999, A was put on sale with a 30% decrease in price. What is the actual price it was sold for?

A. 2500
B. 2400
C. 2310
D. 2110
E. 2210
The correct answer is option [C]

42
Two trains running on the same track travel at the rates of 25 and 30 miles an hour. If the first train starts out anhour earlier, how long will it take the second train to catch up with it?

A. 2hr
B. 3hr
C. 4hr
D. 5hr
E. 1hr
The correct answer is option [D]
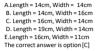
43
A motorcycle stunts man belonging to a fair, rides over the vertical walls of a circular well at an average speed of 54 kph for 5 minutes. If the radius of the well is 5 meters, then the distance traveled is _____ kph.

A. 2.5
B. 3.5
C. 4.5
D. 5.5
E. 6.5
The correct answer is option [C]

44
The length of a rectangle is 9 centimeter more than half the width. Find the length if the perimeter is 60 centimeters.

A. Length = 14cm, Width = 14cm
B. Length = 14cm, Width = 16cm
C. Length = 16cm, Width = 14cm
D. Length = 19cm, Width = 14cm
E. Length = 16cm, Width = 11cm
The correct answer is option [C]

Solution:

Perimeter = 2(length + width)
60cm = 2[width + 9+(1/2width)]
60cm=2width + 2 (9+1/2width)
Distribute the 2 and you get
60cm= 2width + 18 + 1width.
Combine the widths. And subtract 18 from both sides
42cm= 3 width
Divide both sides by 3 to get the length of the width.
Width=14cm.
Then plug it into the equation for the length and you should get 16cm.

45
If I buy a melon and a coconut, the cost will be N1.19. If I buy a melon and a pineapple, the cost will be N1.45. If I buy a coconut and a pineapple, the cost will be N1.40. What are the individual prices?

A. Pineapple = 85k, coconut = 57k, melon = 65k
B. Pineapple = 83k, coconut = 57k, melon = 62k
C. Pineapple = 89k, coconut = 56k, melon = 62k
D. Pineapple = 83k, coconut = 67k, melon = 60k.
E. Pineapple = 82k, coconut = 56k, melon = 61k.
The correct answer is option [B]
Let the price of melon be x, coconut be y, pineapple be z

x + y = 119-----(i)

x + z = 145----(ii)

y + z = 140----(iii)

x = 119 - y----(iv)

substitute in equation (ii)

119 - y + z = 145

z - y = 26---(v)

z = 26 + y----(vi)

substitute the value into equation (iii)

y + 26 + y = 140

2y = 114

y = 57k, z = 83k, x = 62k.

47
The ages of a father and son add up to 66. The digits of the father's age are those of son's age reversed. How old could they be?

A. 42,24
B. 44,22
C. 45,54
D. 47,19
E. None of the above
The correct answer is option [A]

48
There are 200 questions on a 3 hour examination. Among these questions are 50 mathematics problems. It is suggested that twice as much time be spent on each maths problem as for each other question. How many minutes should be spent on mathematics problems?

A. 36
B. 60
C. 72
D. 86
E. 100
The correct answer is option [C]

49
Seyi prefers 16 to 17, 400 to 401 and 100 to 103. Which of the following numbers below does she prefer?

A. 120
B. 301
C. 225
D. 171
E. 404
The correct answer is option [C]
Seyi prefers numbers that are squares i.e. √16 = 4; √400 = 40; √100 = 10. The only number among the options that is a square is 225.

50
The Brainfriend calculator is low on batteries again. The following multiplication is wrong. Each line has the correct numbers, but mixed up. The solution is correct though. What is the correct multiplication?
2147
3725 *

_____
22084429

A. 1427 * 5237
B. 7421 * 3235
C. 2147 * 2735
D. 2147 * 7325
E. 4217 * 5237
The correct answer is option [E]

51
Lovena sells to Onyeka at a gain of 20%. Onyeka sells to Belema at the price Lovena paid. What does Onyeka lose in percentage?

A. 20.67%
B. 17.67%
C. 16.67%
D. 15.67%
E. 14.57%
The correct answer is option [C]

52
A fire engine was rushing to put out a small fire 15 miles away. The fire engine set out with 120 gallons of water, however, the water tank had a leak and the fire engine was losing water at the rate of 2 gallons per minute. The fire engine travelled at a constant speed of 30 miles per hour. If the fire required 50 gallons of water, what was left?

A. 90 gallons
B. 80 gallons
C. 70 gallons
D. 60 gallons
E. 50 gallons
The correct answer is option [D]

53
On my local railway track there is a tunnel which is 5 miles long. A train, which was 440 yards long, entered the tunnel at a speed of 50 miles per hour. How long did it take for the whole of the train to pass completely through the tunnel? [Note: there are 1760 yards in a mile].

A. 6 minutes and 22 seconds
B. 6 minutes and 21 seconds
C. 6 minutes and 20 seconds
D. 6 minutes and 19 seconds
E. 6 minutes and 18 seconds
The correct answer is option [E]

6 minutes and 18 seconds. The train has to effectively travel 5.25 miles at 50 mph. Time = Dist / Speed = 5.25 / 50 = 0.105 hours = 6.3 minutes = 6 minutes 18 seconds.

54
What is N in the series?

6, 9, 27, 54, N, 2241.

A. 108
B. 675
C. 1125
D. 2041
The correct answer is option [B]
The next number in the sequence is n squared minus m or f(n,m) = n2 -m
f(6,9) = 62 - 9 =27
f(9,27) = 92 - 27 = 54
f(27,54) = 272 - 54 = 675
f(54,675) = 542 - 675 = 2241

55
This equation contains the numbers 1-8. Can you complete it?
  6*
  ×
  **
 ‾‾‾‾
3712

A. 48 x 62
B. 54 x 58
C. 63 x 54
D. 64 x 58
E. 61 x 58
The correct answer is option [D]

56
Low temperature at night in a city is 1/3 more than 1/2 high as higher temperature in a day. Sum of the low temperature and highest temperature is 100o . What is the low temp?

A. 20o
B. 30o
C. 40o
D. 50o
E. 60o
The correct answer is option [C]

57
(1/4) 3 + (3/4)3 + 3(1/4)(3/4)(1/4 +1/4) =_____.

A. 1/64

B. 27/64
C. 0
D. 1
E. -1
The correct answer is option [D]

58
Exactly three years before the year in which Anna was born, the year was 1980-x. In terms of x, on Anna's twentieth birthday, the year will be

A. 1977 + x
B. 1997 + x
C. 2003 - x
D. 2003 + x
E. 2003
The correct answer is option [C]

59. Complete the series in the sequence.
18984, 9492, 4746, 2373_____.

A. 1186
B. 1156.2
C. 1186.5
D. 1234.6
E. 19894
The correct answer is option [C]

60
Tonye put six different colored beans in a bag. She had red, blue, pink, orange, yellow, and purple colored beans. There were a total of 30 beans in the bag. If there were 4 red beans, 2 blue beans, 6 pink beans, 5 orange beans, 4 yellow beans, and 9 purple beans, what is the probability that someone could pull a pink or a yellow bean out of the bag?

A. 1/3
B. 1/4
C. 1/5
D. 1/6
E. 1/7
The correct answer is option [A]

You have a one third chance of getting a pink or a yellow bean.
6+4=10
10/30 = 1/3

61
A cube whose edges are 6 inches is painted blue. The cube is then cut into smaller cubes, all of which have edges that are 2 inches long. How many small cubes have no paint on them?

A. 1
B. 2
C. 6
D. 8
E. 18
The correct answer is option [B]

62
Two trains move in the same direction at 50 kmph and 32 kmph respectively. A man in the slower train observes the 15 seconds elapses before the faster train completely passes by him.

What is the length of the faster train?

A. 25m
B. 50m
C. 75m
D. 100m
E. 125m
The correct answer is option [C]

63
The Roman numeral MCMLXXXIV is_____.

A. 1984
B. 1994
C. 1874
D. 1884
E. 1918
The correct answer is option [A]
M - 1000
CM - 900
L - 50
XXX - 30
IV - 4

64
If it is 2:30, what time will it be when the hour hand has moved through an angle of 10 degrees?

A. 2:35
B. 2:50
C. 2:15
D. 3:15
E. 11:15
The correct answer is option [B]

65

Three pipes, A, B, & C are attached to a tank. A & B can fill it in 20 and 30 minutes respectively, while C can empty it in 15 minutes. If A, B & C are kept open successively for 1 minute each, how soon will the tank be filled?

A. 163 minutes
B. 164 minutes
C. 165 minutes
D. 166 minutes
E. 167 minutes
The correct answer is option [E]

66

A boutique in Port Harcourt decided to calculate the percentage of customers who purchase hats. If 40 of the store customers decide to purchase items and of those customers 15 percent purchased hats, what is the percentage of hat customers?

A. 4%
B. 6%
C. 15%
D. 24%
E. 55%
The correct answer is option [B]

67

Juny is now twice as old as Emi, but 6 years ago she was 5 times as old as he was.
How old is Juny now?

A. 10
B. 16
C. 20
D. 24
E. 32
The correct answer is option [B]

68

Divide 80 by 1/2 and add 40 to the result. What is the final answer?

A. 80
B. 120
C. 160
D. 200
E. 240
The correct answer is option [A]

70

Complete the sequence in the series: 1, 2, 10, 37, 101, ____.

A. 156
B. 196
C. 226
D. 256
E. 296
The correct answer is option [C]

2 - 1 = 1; 10 - 2 = 8; 37 - 10 = 27; 101 - 37 = 64;
The differences between two consecutive numbers are 1, 8, 27, 64, … (cubes of integers starting with 1).
So, 101 + 53 = 101 + 125 = 226

71

A man named Ike says "I am only three times my son's age. My father is 40 years more than twice my age. Together the three of us are a mere 1,240 years old." How old is Ike?

A. 360 years old
B. 361 years old
C. 362 years old
D. 363 years old
E. 364 years old
The correct answer is option [A]

72

Complete the sequence in the series: 1, 3, 6, 10, 15, ____.

A. 17
B. 18
C. 19
D. 20
E. 21
The correct answer is option [E]

3 - 1 = 2; 6 - 3 = 3; 10 - 6 = 4; 15 - 10 = 5;
The differences between two consecutive numbers are 2, 3, 4, 5, 6,…
So, 21 - 15 = 6.
Alternatively, 1 + 2 = 3; 1 + 2 + 3 = 6; 1 + 2 + 3 + 4 = 10;
1 + 2 + 3 + 4 + 5 = 15; 1 + 2 + 3 + 4 + 5 + 6 = 21;
The nth term in the sequence is given by n (n + 1)/2. The numbers are often referred to as triangular numbers.

73

Which of the following is the number under 1000 which has the most divisors? e.g. 21 has the divisors, 1, 3, 7, and 21.

A. 670
B. 740
C. 840
D. 980
E. 999
The correct answer is option [C]

840: which has 32 divisors.

75
Mrs. Priscillia receives a salary of N1,500 per week plus 2 percent commission on sales. What was her total earning for a week in which her sales was N29,230?

A. N2,084.60
B. N2,184.60
C. N2,284.60
D. N2,384.60
E. N2,484.60
The correct answer is option [A]

76
If the difference of two numbers is 10 and their product is 13, what is the sum of their squares?

A. 125
B. 126
C. 100
D. 169
E. None of the above
The correct answer is option [B]

Solution:

Let a and b be the two numbers. Then,
a - b = 10 and ab = 13

Now, $(a - b)^2 = (a - b)(a - b) = a^2 - 2ab + b^2$
So, $10^2 = a^2 - 2(13) + b^2$

$100 + 26 = a^2 + b^2$
Thus, $a^2 + b^2 = 126$

77
Can you find three consecutive primes which total 190747 when multiplied together?

A. 53, 59 and 61
B. 59, 61 and 67
C. 53, 67 and 73
D. 59, 61 and 69
E. 53, 69 and 71
The correct answer is option [A]

78
Complete the sequence in the series: 500, 475, 425, 350, 250,_____.

A. 225
B. 200
C. 172
D. 150
E. 125
The correct answer is option [E]

500 - 475 = 25; 475 - 425 = 50; 425 - 350 = 75; 350 - 250 = 100;
The differences between two consecutive numbers are 25, 50, 75, 100, 125,...
So, 250 - 125 = 125.

79
The average wages of a worker during a fortnight comprising 15 consecutive working days was Rs.90 per day. During the first 7 days, his average wages was Rs.87/day and the average wages during the last 7 days was Rs.92 /day.
What was his wage on the 8th day?

A. 83
B. 92
C. 90
D. 97
E. 102
The correct answer is option [D]

80
If Ateli lends N400 for 9 months, Ibikari lends N300 for 8 months, and the interest paid is N25, how much should Ateli receive?

A. N10
B. N12
C. N15
D. N17
E. N18
The correct answer is option [C]

81

The current ratio of boys to girls at a certain school is 2 to 5. If 12 additional boys were added to the school, the new ratio of boys to girls would be 4 to 9. How many boys currently attend the school?

A. 118
B. 108
C. 72
D. 54
The correct answer is option [B]

82
Joan and Jane are sisters. Jean is Joan's daughter and 12 years younger than her aunt. Joan is twice as old as Jean. Four years ago, Joan was the same age as Jane is now, and Jane was twice as old as her niece. How old is Jean?

A. 32
B. 28
C. 22
D. 16
E. 14
The correct answer is option [D]

Joan is 32, Jane is 28, and Jean is 16

83
What is the missing number?

2, 3, 4, 15,12
3, 4, 5, 28,20
4, 5, 6, 45,30
5, 6, 7, 66,42
6, 7, 8, ??,56

A. 132
B. 112
C. 100
D. 91
The correct answer is option [D]
f(n,m) = (n + m) * m
For example, f(2,3) = (2 + 3) * 3 = 15.
Thus f(6,7) = (6 + 7) * 7 = 91

83
What is the missing number?

2, 3, 4, 15,12

3, 4, 5, 28,20

4, 5, 6, 45,30

5, 6, 7, 66,42
6, 7, 8, ??,56

A. 132
B. 112
C. 100
D. 91
The correct answer is option [D]
f(n,m) = (n + m) * m
For example, f(2,3) = (2 + 3) * 3 = 15.
Thus f(6,7) = (6 + 7) * 7 = 91

84
The monthly salaries of Kunle and Femi are in the ratio of 4:7. If each receives an increase of 25 naira in the salary, the ratio is altered to 3: 5. Find their respective salaries.

A. 120 naira and 210 naira
B. 80 naira and 140 naira
C. 180 naira and 300 naira
D. 200 naira and 350 naira
E. 250 naira and 500 naira
The correct answer is option [D]

85
Replace the question marks with one mathematics symbols (e.g. + - / x) and make the equation correct

(9 ? 1) ? (7 ? 6) ? (8 ? 4) =3

A. +
B. -
C. /
D. x
E. None of the above
The correct answer is option [B]

(9 - 1) - (7 - 6) - (8 - 4) = 3.

86
What is the number that is one half of one quarter of one tenth of 400?

A. 5
B. 15
C. 8
D. 10
E. 40
The correct answer is option [B]
Solution:
1/10 of 400 is 40
1/4 of 40 is 10
3/2 of 10 is 15

87

James said that he was born on February 29, 1900. What birthday will he celebrate in the year 2000?

A. 100
B. 1,000
C. 101
D. 1,0001
E. None of the above
The correct answer is option [E]

He celebrates his birthdays in leap years. In 2000, he will be 25years old. However, the year 1900 was not actually a leap year.

88

14,500 people are sitting in a stadium. One of them is picked out. What are the chances that the person's birthday is on a Sunday?

A. 1/14,500
B. 1/7
C. 7/14,500
D. 1/14,501
E. 1/6
The correct answer is option [B]

1/7. The amount of people in the crowd is irrelevant.

89

Obomate is 2 years older than Kunle, who is twice as old as Joe. If the ages of the three total 57 years, how old is Kunle?

A. 10years
B. 11years
C. 22years
D. 33years
E. 44years
The correct answer is option [C]
Solution:
Let Joe's age be represented by x
Kunle's age is 2x

Obomate's age is 2x + 2

57 = x + 2x + 2x + 2
55 = 5x
x = 11
Kunle's age is 2 2years.

90

Diki likes soda very much. At the local convenience store, for 5 empty soda bottles she receives a full bottle. As part of the Girl Guide's recycling initiative, she manages to collect 77 empty bottles. How many bottles of soda will she be able to drink in total?

A. 77
B. 19
C. 20
D. 21
E. 22
The correct answer is option [B]

19 bottles: from the initial 77 bottles, she receives 15 full bottles (with 2 spare empties). From the 17 empties, she receives 3 more full bottles (with 2 spare empties). From the 5 empties she receives one final full bottle.

91

Take the number of your fingers multiplied by the number of your toes divided by half and add it to the number of months in a year. What is the total?

A. 212
B. 202
C. 192
D. 186
E. 172
The correct answer is option [E]

We have 8 fingers and 2 thumbs
= 8x10 = 80÷1/2 = 160 + 12=172

92

A pillar 8 feet tall casts a shadow 4 feet long on the ground. If the pillar was 12 feet tall, how many feet in length would the shadow cast?

A. 12feet
B. 8feet
C. 6feet
D. 4feet
E. 2feet
The correct answer is option [C]

Solution:
The lengths of the shadows are to one another as the heights of the pillars. Thus,
Length of the shadow for a pillar 12 feet tall
= (12 / 8) x 4 = 6feet.

93

Two people start at the same point and walk in opposite directions. If one walks at the rate of 4 miles per hour and the other walks at the rate of 6 miles per hour, in how many hours will they be 40 miles apart?

A. 1
B. 2
C. 3
D. 4
E. 5
The correct answer is option [D]

94

Arrange the following numbers in ascending order of magnitude: 8, 9, 4, 6, 2, 4, 7, 5, 15, 12.

A. 15, 12, 9, 8, 7, 6, 5, 4, 2
B. 2, 4, 4, 5, 6, 7, 8
C. 2, 4, 4, 5, 6, 7, 8, 9, 12, 15
D. 15, 12, 9, 8, 2, 4, 4, 5,
E. None of the above
The correct answer is option [C]

95

What row of numbers comes next?

1
11
21
1211
111221
312211
13112221

A. 1123123111
B. 11123113211
C. 1132113211
D. 1113213211
E. 1111132231

The correct answer is option [D]
Starting with the second line, every line describes the line before it. In writing, it is:
One One
Two Ones
One Two One One etc.

96

What is the smallest number by which 2880 must be divided in order to make it a perfect square?

A. 6
B. 5
C. 4
D. 3

97

If 20 men or 24 women or 40 boys can do a job in 12 days working for 8 hours a day, how many men working with 6 women and 2 boys take to do a job four times as big, working for 5 hours a day for 12 days?

A. 2 men
B. 8 men
C. 12 men
D. 24 men
E. 25 men
The correct answer is option [A]

98

In how many ways can Ann, Bea, Cam, Don, Ella and Fey be seated if Ann and Bea cannot be seated next to each other?

A. 240
B. 360
C. 480
D. 600
The correct answer is option [C]

99

The square of a two digit number is divided by half the number. After 36 is added to the quotient, the sum is then divided by 2. The digits of the resulting number are the same as those in the original number, but they are in reverse order The tens' place of the original number is equal to twice the difference between its digits. What is the number?

A. 40
B. 42
C. 44
D. 46
E. 48
The correct answer is option [D]

100

If two pencils costs 8 kobo, how much will 50,998 pencils cost?

A. N40,708.40
B. N4,079.84
C. N407,984
D. N479.84
E. N4,079.84
The correct answer is option [E]

101
If 9x - 3y = 12 and 3x - 5y = 7 then 6x - 2y=?

A. 2
B. 4
C. 5
D. 8
E. 9
The correct answer is option [D]

102
You're driving your car on the highway at 75 mph, and you notice a sign that says you are 75 miles from   your destination. So if you continue driving at that speed, you'd be there in an hour. When you have driven one mile and you are now 74 miles from your destination, you drop your speed down to 74 mph. So, you drive that first mile at 75 mph; when you are 74 miles from your destination, you drop your speed down to 74 mph; and then 73 mph, 72 mph... and so on. Until, finally, you get down to 1 mile from your destination and you're driving at one mile per hour. If you do this, how long is it going to take you to travel the entire 75 miles, rounding it to the nearest hour?

A. 3 hours
B. 4 hours
C. 5 hours
D. 6 hours
E. 7 hours
The correct answer is option [C]

103
In a km race, A gives B a start of 20 seconds and beats him by 40m. However, when he gives B a start of 25 seconds, they finish in a dead heat. What is A's speed in m/sec?

A. 12.5 mins/sec
B. 20 mins/sec
C. 8 mins/sec
D. 10 mins/sec
E. 12 mins/sec
The correct answer is option [D]

104
The Roman numeral MDCCCLXXXVIII is _____.

A. 1878
B. 1888
C. 1988
D. 1899
E. 1818
The correct answer is option [B]

105
If two typist can type two pages in two minutes, how many typists will it take to type 18 pages in six minutes?

A. 3
B. 4
C. 6
D. 12
E. 36
The correct answer is option [C]

One typist types one page in two minutes.

106
Complete the sequence in the series 25, 100, 225, 400, 625, _____.

A. 725
B. 775
C. 825
D. 900
E. 925
The correct answer is option [D]

107
In a football syndicate, the winnings amounted to N7657. There were more than 30 people in the syndicate, but less than 100. Each won exactly the same number of Naira and no kobo was involved. How much did each win?

A. N255
B. N247
C. N239
D. N232
E. N225
The correct answer is option [B]

31 people: each won N247.

108
The distance between Station Rail Crescent and Station Churchill is 84 miles. A train starts from Rail Crescent towards Churchill. A bird starts at the same time from Churchill straight towards the moving train. On   reaching the train, it instantaneously turns back and returns to Churchill. The bird makes these journeys from Churchill to the train and back to Churchill continuously till the train reaches Churchill. The bird finally returns to Churchill and rests. Calculate the total distance in miles the bird travels if the bird flies at 60 miles per hour and the speed of the train is 80 miles per hour.

A. 84 Miles
B. 76 Miles
C. 72 Miles
D. 48 Miles
E. None of the above
The correct answer is option [C]

In 36 minutes, the bird travels 36 miles, the train travels 48 miles, and the two meet.

Now, the train (which is traveling at a speed greater than that of the bird) will reach Churchill before the bird.

So, the bird simply returns to Churchill (a return journey of 36 miles).

Thus, the total distance traveled by the bird is 72 miles.

109
If a and b are positive integers and (a - b)/3.5 = 4/7, then

A. b < a
B. b > a
C. b = a
D. b >= a
E. none of the above
The correct answer is option [A]

110
From five different green balls, four different blue balls and three different red balls, how many combinations of balls can be chosen, taking at least one green and one blue ball?

A. 3660

B. 3680
C. 3700
D. 3720
E. None of the above
The correct answer is option [D]

111
A merchant buys two articles for N600. He sells one of them at a profit of 22% and the other at a loss of 8% and makes no profit or loss in the end.
What is the selling price of the article that he sold at a loss?

A. N160

B. N404.80
C. N440
D. N536.8
E. N560
The correct answer is option [B]

112
When I add 6 times my age 6 years from now to 7 times my age 7 years from now, I get 14 times my current age. How old will I be 4 years from now?

A. 98
B. 89
C. 78
D. 69
E. 59
The correct answer is option [B]

Solution:

Let x be my present age. My age 6 years from now will be x + 6, and 6 times that will be 6 (x + 6). Similarly, my age 7 years from now will be x + 7, and 7 times that will be 7 (x + 7).
Adding the two gives 14 times my current age. This gives the equation:
6 (x + 6) + 7 (x + 7) = 14x.
Solving the above equation gives
x = (6 x 6) + (7 x 7) = 85.
Thus, I will be 89 years old 4 years from now.

113
Complete the sequence in the series: 1, 3, 6, 10, 15, 21, 28, ____.

A. 30
B. 36
C. 42
D. 48
E. 54
The correct answer is option [B]

1;
1 + 2 = 3;
1 + 2 + 3 = 6;
1 + 2 + 3 + 4 = 10;
1 + 2 + 3 + 4 + 5 = 15;
1 + 2 + 3 + 4 + 5 + 6 = 21;
1 + 2 + 3 + 4 + 5 + 6 + 7 = 28;
1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 = 36;
The nth term in the sequence is given by n (n + 1)/2, and the numbers are often referred to as triangular numbers.

114

If the operation,^ is defined by the equation x ^ y = 2x + y, what is the value of a in 2 ^ a = a ^ 3?

A. 0
B. 1
C. -1
D. 4
E. -4
The correct answer is option [B]

115 The area of the floor of the tank is 6 square feet, and the water in it is 9 inches deep. How much does the water rise if a 1foot metal cube is placed in it? How much further does the water rise if a second 1 foot cube is also placed in the tank?
A.1.8 inches, then another 2.2 inches.
B. 1.2 inches, then another 2.8 inches.
C. 2.2 inches, then another 2.2 inches.
D. 1.8 inches, then another 1.8 inches.
E.2.2 inches, then another 1.8 inches.
The correct answer is option [A]

1.8 inches, then another 2.2 inches. Initially the volume of water is 6 * 9/12 = 4.5 cubic feet. The first cube effectively reduces the cross-sectional area of the tank to 5 square feet, causing the water to be 4.5/5 foot = 10.8 inches deep. Thus it rises 1.8 inches. The second cube is then placed on the floor of the tank, the cross-sectional area is 4 square feet up to a height of 1 foot, and this is filled by 4 cubic feet of water. The remaining 0.5 cubic foot, in a cross-sectional area of 6 square feet, requires a height of 0.5/6 foot = 1 inch. The water is therefore 13 inches deep and has risen by another 2.2 inches.

116
If M = {u, v, w, x, y} and N = {u, x, z}, what is MnN?

A. {u, x}
B. {u, v, w, x, y}
C. {u, x, z}
D. {u, v, w, x, y, z}
E. {x, z}
The correct answer is option [A]

117
If 7 workers can build 7 cars in 7 days, then how many days would it take 5 workers to build 5 cars?

A. 1
B. 5
C. 7
D. 25

The correct answer is option [C]

118
If one-seventh of a number exceeds its eleventh part by 100 then the number is _____

A. 1925
B. 1100
C. 1825
D. 770
The correct answer is option [A]
Let the number be x.
Then X/7 - x/11 =100 11x-7x = 7700x=1925.
119
Last weekend, I went to play in the nearby park. It was real fun! I rode my new bicycle that Mom had given to me on my birthday. On reaching the park, I saw that there were a total of 16 bicycles and tricycles. If the total number of wheels were 39 , how many tricycles were there?

A. 16
B. 15
C. 12
D. 9
E. 7
The correct answer is option [E]

Solution:

Let the number of bicycles be x and the number of tricycles be y
x + y = 16----(i)
2x + 3y = 39----(ii)
Solve for x in equation (i)
x = 16 - y----(iii)
2(16 - y) + 3y = 39
y = 7.

120
If I have a normal coin with a head and tail, a 6-sided die, and a bag containing 4 blue and 2 red marbles, what is the probability of me flipping a head, rolling a 4, and picking out a red marble?

A. 0.0278
B. 0.0367
C. 36
D. 27
E. 0.278
The correct answer is option [A]

Probability of flipping a head is 1/2
Probability of rolling a 4 is 1/6

Probability of selecting a red marble is 2/6 = 1/3.
Then multiply the results to get the probability:
1/2 x 1/6 x 1/3 = 0.0278 (to 3 decimal places)

121
Mr Willie likes to smoke cigars, but he cannot afford cigars so he puts five (5) stubs (which he finds) together to make one full cigar. One day Mr Willie was lucky to get 25 stubs extra. How many cigars could he smoke (maximum number)?

A. 5
B. 6
C. 7
D. 8
E. 4
The correct answer is option [B]

122
600 ladies and 400 guys belong to a choreography group. What are the chances that a person chosen to represent the group in the dance is a lady?

A. 2/3
B. 1/1,000
C. 3/5
D. 3/2
E. 1/600
The correct answer is option [C]

123
Complete the sequence in the series: 213, 426, _____, 852, 1065, 1278.

A. 578
B. 621
C. 639
D. 669
E. 701
The correct answer is option [C]
213 + 213 = 426; 426 + 213 = 639; 639 + 213 = 852;
852 + 213 = 1065; 1065 + 213 = 1278;
The numbers simply increase by 213.

124
Determine the number that should come next in the series below:

3, 8, 14, 21, 29, 38, ?

A. 45
B. 46
C. 47
D. 48

E. 49
The correct answer is option [D]

The differences between the numbers increases by 1, starting with 5 (3 to 8), so the answer is 48 because the difference has to be 10 between 38

125
Bea can paint a house three times faster than Alice can paint a house. If, working together, it takes Alice and Bea 24 hours to paint a house, then how many hours will it take Bea to paint a house alone?

A. 28
B. 30
C. 32
D. 36
The correct answer is option [C]

126
What percent of 15 is 15 percent of 1?

A. 0.001
B. 0.01
C. 0.1
D. 1
The correct answer is option [D]

127
What is the number of triangles in an octagon?

A. 326
B. 120
C. 56
D. 180
E. cannot be determined
The correct answer is option [C]

128
If a sum of money compounded annually amounts to thrice itself in 3 years. In how many years will it become 9 times itself?

A. 4 years
B. 5 years
C. 6 years
D. 7 years
E. 8 years
The correct answer is option [C]

129

2 hours after a freight train leaves Delhi, a passenger train leaves the same station traveling in the same direction at an average speed of 16 km/hr. After traveling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was_____.

A. 30
B. 40
C. 58
D. 60
E. 72
The correct answer is option [B]

130
The average of 5 quantities is 6. The average of 3 of them is 8.
What is the average of the remaining two numbers?

A. 6.5
B. 4
C. 3
D. 3.5
E. 2.5
The correct answer is option [C]

131
There are two dogs in each corner of a room shaped like an octagon. How many dogs are in the room?

A. 8
B. 10
C. 12
D. 14
E. 16
The correct answer is option [E]

132
The monthly incomes of Ada and Betty are in the ratio 4 : 5, their expenses are in the ratio 5 : 6. If Ada saves 25 naira per month and Betty saves 50 naira per month, what are their respective incomes?

A. 400 naira and 500 naira
B. 240 naira and 300 naira
C. 320 naira and 400 naira
D. 440 naira and 550 naira
E. 110 naira and 220 naira
The correct answer is option [A]

133
What is x? if 45/9 = 12 - x

A. 5

B. 7
C. 9
D. 11
E. None of the above
The correct answer is option [B]

134
A painting job can be completed by 7 painters in 50 days. If 21 more painters join the team 10 days after starting work on the job, how many more days are required to complete the job?

A. 6 days
B. 8 days
C. 10 days
D. 12 days
E. 14 days
The correct answer is option [C]

Solution:
Total effort required by 7 painters for 50 days = 7 x 50 = 350 man-days.
Initial effort by 7 painters for 10 days = 7 x 10 = 70 man-days.
Job still requires 350 - 70 = 280 man-days, and there are 28 painters available to do it.

Additional effort required by 28 painters for 280 man-days = 280 / 28 = 10 days.
Thus, 10 more days are required to complete the painting job.

135
Mr. Brown has 8 black gloves and 12 brown gloves in his closet. He blindly picks up some gloves from the closet. What is the minimum number of gloves Mr. Brown will have to pick to be certain to find a pair of gloves of the same color?

A. 3
B. 4
C. 5
D. 6
E. 7
The correct answer is option [A]

136
Which number best completes the series?
2, 3, 5, 7, 11, 13, ?

A. 14
B. 15
C. 16
D. 17
E. 18

The correct answer is option [D]

The series is made up of prime numbers.

137
This multiplication contains the numbers 1-9. Can you complete it?

***

x

3*

_____

7254

A. 186 x 39
B. 186 x 38
C. 186 x 37
D. 186 x 36
E. 186 x 35
The correct answer is option [A]

138
A tennis championship is played on a knock-out basis, i.e., a player is out of the tournament when he loses a match. How many players participated in the tournament if a total of 15 matches are played?

A. 20
B. 16
C. 12
D. 8
E. 6
The correct answer is option [B]

Solution: Since the tennis tournament is played on a knock out basis and there 15 matches played, then the number of players would be 16, that is , 15 players and 1 player(the winner).

139
A bus started from the bus stand at 8.00am, and after 30 minutes of staying at the destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus is 18mph. In the return journey, the bus travels with 50% fast speed. At what time did it return to the bus stand?

A. 10.00am
B. 11.00am
C. 12 noon
D. 1.00pm

E. 2.00pm
The correct answer is option [B]

140
The present ages of Chukwuemeka and Ikechukwu are 6 : 4. Five years ago their ages were in the ratio 5 : 3. Find their present ages.

A. 42,48
B. 36,24
C. 30,20
D. 25,15
E. 35,45
The correct answer is option [C]

141
Last week, I travelled from London to Stoke. On the first day I travelled half of the distance. On day two, I travelled one third of the remaining distance. On day three, I travelled three quarters of the remaining distance. Yesterday I travelled half of the remaining distance. I now have 5 miles left to travel. How far is it from Stoke to London in total?

A. 120 miles
B. 60 miles
C. 40 miles
D. 20 miles
E. 5 miles
The correct answer is option [A]

120 miles. On the first day I travelled 60 miles, leaving 60 miles. On day two I travelled 20 miles, leaving 40 miles On day three I travelled 30 miles, leaving 10 miles. Yesterday I travelled 5 miles, leaving 5 miles.

142
A bank department employs 2800 people of whom 70 percent are cash officers and one-fourth are marketing officers. The number of employees in the bank who are neither cash officers nor marketing officers is_____.

A. 235
B. 250
C. 140
D. 155
E. 160
The correct answer is option [C]

143
Complete the sequence in the series: 1, 2, 6, 24, 120, _____ .

A. 720
B. 620

C. 520
D. 420
E. 320
The correct answer is option [A]

1 = 1;
(1)(2) = 2;
(1)(2)(3) = 6;
(1)(2)(3)(4) = 24;
(1)(2)(3)(4)(5) = 120;
(1)(2)(3)(4)(5)(6) = 720;
The nth term in the sequence is given by n! (factorial of n), which is defined as the product of all integers from 1 to n.

144
Gary began peeling a pile of 44 potatoes at the rate of 3 per minute. Four minutes later, Christen joined him, and peeled at the rate of 5 potatoes per minute. When they were finished, how many potatoes had each peeled?

A. Gary 16, Christen 20
B. Gary 20, Christen 14
C. Gary 24, Christen 20
D. Gary 20, Christen 24
E. Both 27
The correct answer is option [C]

145
In a class composed of x girls and y boys, what part of the class is composed of girls?

A. y/(x + y)
B. x/xy
C. x/(x + y)
D. y/xy
E. None of the above
The correct answer is option [C]

146
Diki likes blueberries and apples. She puts bananas, apples, oranges, cherries, and blueberries into a basket. There are 36 fruits in the basket. There are 7 bananas, 4 apples, 11 oranges, 8 cherries, and the rest blueberries. What is Diki's chance of picking out a fruit that she likes?

A. 1/6

B. 18/5
C. 5/18
D. 1/9
E. 0
The correct answer is option [C]

Solution
Diki has a 5/18 chance of pulling out a fruit she likes.
4 apples + 6 blueberries = 10 fruits
She likes
10/36 = 5/18.

147
A salesperson works 50 weeks each year and makes an average (arithmetic mean) of 100 sales per week. If each sale is worth an average (arithmetic mean) of N1,000, then what is the total value of sales made by the salesperson in a year?

A. N50,000
B. N100,000
C. N500,000
D. N1,000,000
E. N5,000,000
The correct answer is option [E]

148
The price of a product is reduced by 30%. By what percentage should it be increased to make it 100%?

A. 38.758%
B. 42.857%
C. 62%
D. 70%
E. None of the above
The correct answer is option [B]

149
Five years ago, Sharon's age was three times that of Sommy. Ten years ago, Sharon's age was one half that of Ela. If E represents Ela's current age, which of the following represents Sommy's current age?

A. E/6 + 5
B. 2E
C. (E - 10)/3
D. 3E - 5
E. None of the above
The correct answer is option [A]

150
A portion of $7200 is invested at a 4% annual return, while the remainder is invested at a 5% annual return. If the annual income from both portions is the same, what is the total income from the two investments?

A. $160
B. $320
C. $400
D. $720
E. None of the above
The correct answer is option [B]

151
In a group of 15, 7 have studied Latin, 8 have studied Hints, and 3 have not studied either. How many of these studied both Latin and Hints?

A. 0
B. 3
C. 4
D. 5
E. 6
The correct answer is option [B]

152
From me to you with LOVE. How many times does the word LOVE appear in this grid?

```
L V E V O L E E V O L E V O L
O O V E O O E V O L L V V O L
V L O V E V V O O O L O V E O
E O L O V E O L V L E L E V V
E V O L E E L E O L E V O L E
V V O L V V O L O V O L O V E
O V O L O O V V O L E L O L E
L V O L L L E L O V E L O V E
E V L O V E V V O L O V E V E
E E L L E V O L O E E V O L E
L V V O L L L V L L V L L L V
L O E V V O E O O E V O L O O
O L V E V E V V V V E V O L V L
V O O E L E E E E E L O V E O
E V L E V O L O V E V O L O V
```

A. 71 times
B. 72 times
C. 73 times
D. 74 times
E. 75 times
The correct answer is option [C]

153
My bath has two taps and a plug hole. The cold tap on its own fills the bath in 18 minutes, the hot one in 15 minutes. The plug hole can drain the bath in 10 minutes with the taps off. How long will the bath take to fill if I leave both taps on with the plug left out?

A. 46 minutes

B. 45 minutes
C. 44 minutes
D. 43 minutes
E. 42 minutes
The correct answer is option [B]

45 minutes. In 24 hours, the cold tap could fill 80 baths, the hot tap could fill 96 baths and the plug could drain 144 baths. Therefore, in 24 hours, we have 80 + 96 - 144 baths full = 32 baths. Therefore each bath would take 45 minutes to fill.

154
Replace the question marks with one mathematics symbol (e.g. + - / x) and make the equation correct
(7 ? 1) ? (5 ? 2) ? (2 ? 3) = 20

A. +
B. -
C. x
D. /
E. None of the above
The correct answer is option [A]

155
Determine the number that should come next in the series below:

0, 5, 8, 17, 24, 37, ?

A. 48
B. 49
C. 50
D. 51
E. 52
The correct answer is option [A]

12 - 1, 22 + 1, 32 - 1, 42 + 1, 52 - 1, 62 + 1, 72 -1

156
I was having trouble sleeping last night and tossed and turned well into the night. Our local town hall has a clock which strikes on the hour and also strikes just once on the half hour. During one of my more awake moments I heard the clock strike once, but I could not tell what time it was. Half an hour later it struck once again, but I still could not tell what time it was. Finally, half an hour later it struck once again and I knew what the time was. What time was it?

A. 1.00 in the morning
B. 1.30 in the morning

C. 2.00 in the morning
D. 3.00 in the morning
E. 4.00 in the morning
The correct answer is option [B]

1.30 in the morning. The initial single strike was at 12.30.

157
In a certain year, corporation X produced 20 percent of the total world production of a certain drug. If corporation X produced 9kg of the drug, how many kg were produced by producers other than corporation X?

A. 45
B. 40
C. 36
D. 27
E. 22
The correct answer is option [A]

158
1/3 of girls and 1/2 of boys go to the canteen .What fraction of the total number of classmates go to the canteen?

A. 5/6
B. 1/3
C. 1/5
D. 1/6
E. Cannot be determined
The correct answer is option [A]

159
Each child in a family has at least 2 brothers and 4 sisters. What is the smallest number of children the family might have?

A. 2
B. 4
C. 6
D. 8
E. 10
The correct answer is option [D]

Solution:
If each boy in the family has at least 2 brothers, then the smallest number of boys is 3.
Similarly, if each girl in the family has at least 4 sisters, then the smallest number of girls is 5.
Thus, the smallest number of children the family might have is 8.

160
Batubo sold 6 eggs at the price for which he bought 10 eggs. What is his profit percent?

A. 20%
B. 12%
C. 47.9%
D. 57.6%
E. 66.67%
The correct answer is option [E]

161
I have a jar of sweets. 114 red, 35 blue, 67 green and 9 yellow. What percentage chance do I have of picking a yellow one with my eyes shut?

A. 7%
B. 5%
C. 4%
D. 2%
E. 1%
The correct answer is option [C]
4 percent, or 1 in 25.

162
The ratio of Rita's age to her mother's age is 3:8. The difference of their ages is 35 years. The ratio of their ages after 4 years will be _____

A. 7:12
B. 5:12
C. 38:43
D. 43:47
The correct answer is option [B]
Let their ages be 3x and 8x
8x - 3x=35
x=7
Their present ages are 21 and 56 years.
Ratio of their ages after 4 years are 25:60 = 5:12

163
If on an item a company gives 25% discount and earns 25% profit. If they now give 10% discount, what is the profit percentage?

A. 30%
B. 35%
C. 40%
D. 45%
E. Insufficient data
The correct answer is option [A]

164
Boma borrowed N240 interest free from her parents to pay for her college education. If she pays back 21/2 percent of this amount quarterly and has already paid N42, for how many months has she been paying back her loan?

A. 6

B. 7
C. 19
D. 21
E. 24
The correct answer is option [D]

165
There are 1,200 dresses in a wardrobe. If one third of the dresses are all pink, some are all blue, and others have pink and green stripes. Would 400 clothes be definitely blue?

A. Yes
B. No
C. Cannot be determined by the information given
D. None of the above
The correct answer is option [C]

The other 800 clothes can be any mix of all blue and pink and green stripes.

166
A Crocodile's tail was three times as long as its head. Its body was half as long as its tail. The body and tail measured 13 feet 6 inches. How long was its head?

A. 13 feet 6 inches
B. 9 feet
C. 6 feet
D. 3 feet
E. 2 feet 6 inches
The correct answer is option [D]

167
Three athletes A, B, and C are to run a race. B and C have equal chances of winning, but A is twice as likely to win as either. What is the probability of each athlete winning?

A. 3/5
B. 1/4
C. 3/4
D. 1/3
E. 2/3
The correct answer is option [B]

168
Last week I spent half of my money on a new jacket and then I spent half of that amount on some new trousers. I was left with N32.94. How much did I spend?

A. N98.82
B. N198.82
C. N98.98
D. N128.88
E. N119.28
The correct answer is option [A]

I spent N98.82. I started with N131.76 and initially spent N65.88 and then spent another N32.94, which left me with N32.94, which meant that I'd spent N98.82 of my original N131.76.

169
A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 % gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain, he would lose N10 in the bargain. The amount paid by him was N_____ for the horse and N_____ for the cart.

A. 450,250
B. 480,280
C. 500,300
D. 400,200
The correct answer is option [D]

170
Joe sells 12 eggs at the price for which he bought 20 eggs. What is his profit percent?

A. 57.6%
B. 66.67%
C. 47.96%
D. 12%
E. 20%
The correct answer is option [B]

171
The proportion of milk and water in 3 samples is 2:1, 3:2 and 5:3. A mixture comprising of equal quantities of all 3 samples is made. The proportion of milk and water in the mixture is _____.

A. 2 : 1
B. 5 : 1
C. 99 : 61
D. 227 : 133
E. 4 : 5
The correct answer is option [D]

172
A 5cm cube is cut into as many 1cm cubes as possible. What is the ratio of the surface area of the larger cube to that of the sum of the surface areas of the smaller cubes?

A. 1 : 5
B. 1 : 6
C. 1 : 25
D. 1 : 125
E. 1.734
The correct answer is option [A]

173
What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can of cream (2 pt.=1 qt. and 4 qt.=1 gal)?

A. 16
B. 24
C. 30
D. 64
E. 68
The correct answer is option [D]

174
Following the pattern shown in the number sequence below, what is the missing number?

1, 4, 9, ?, 25, 36

A. 10
B. 12
C. 14
D. 16
E. 18
The correct answer is option [D]

Each number is the square of the sequence 1, 2, 3, 4, 5, 6

175
(I) Multiply 50 by 50 one thousand times.
(II) Multiply 100 by 100 five hundred times.
How many times would you have to multiply the result of (2) to get (1)?

A. One billion times (58)
B. 50 to the 10th power
C. 25 by 25 five hundred times
D. 100 by 100 one thousand times
E. 2.5 to the 25th power
The correct answer is option [C]

176
1900 is written in Roman numeral as_____.

A. MCD
B. MCM
C. CM
D. CD
E. DC
The correct answer is option [B]
M is 1000;
CM is 900.

177
Faka bought yam at 1,000 naira a score. What is the price of one tuber of yam?

A. 50 naira
B. 40 naira
C. 60 naira
D. 65 naira
E. Cannot be determined
The correct answer is option [A]

178
The distance between Station Wilson and Station Harold is 84 miles. A train starts from Wilson towards Harold. A bird starts at the same time from Harold straight towards the moving train. On reaching the train, it instantaneously turns back and returns to Harold. The bird makes these journeys from Harold to the train and back to Harold continuously till the train reaches Harold. The bird finally returns to Harold and rests. Calculate the total distance in miles the bird travels if the bird flies at 80 miles per hour and the speed of the train is 60 miles per hour.

A. 122 Miles
B. 112 Miles
C. 80 Miles
D. 60 Miles
E. None of the above
The correct answer is option [B]

Solution:

Bird flies at a speed greater than that of the train
The train (at a speed of 60 miles per hour) travels 60 miles in 60 minutes.
Therefore, the train travels from Wilson to Harold (84 miles) in 84 minutes.
Importantly, the bird makes the journeys continuously back and forth for this same amount of time (namely, 84 minutes).
Thus, the total distance traveled by the bird
= 80 miles per hour x 84 minutes = 80 x 84/60 miles = 112 miles

179
A snake slides through a long cylindrical hole in the ground at 6 centimetres per second. The hole is 7.5 metres in length. The snake takes 14 seconds to enter the hole. What is the length in centimetres of the snake?

A. 125cm
B. 100cm
C. 90cm

D. 84cm
E. 204cm
The correct answer is option [D]

Distance = Speed x Time.
(a) The snake has entered the hole when its tail just comes into the hole. It is given that 14 seconds elapse from the time the snake's head enters the hole till its tail enters. Thus,

Length of the snake = Distance traveled in 14 seconds
= (6 cm/s) x (14 s) = 84 centimetres.

180
Complete the series: 144, 121, 100,_____, 64, 49

A. 99
B. 91
C. 89
D. 81
E. 79
The correct answer is option [D]

The terms are merely the squares of integers starting with 12 in descending order. Thus,
12^2 = 12 x 12 = 144; 11^2 = 11 x 11 = 121; 10^2 = 10 x 10 = 100;
9^2 = 9 x 9 = 81; 8^2 = 8 x 8 = 64; 7^2 = 7 x 7 = 49;
Alternatively, the differences between consecutive terms form the following simple sequence: 23, 21, 19, 17, 15.

181
Tonye drives to Boma's house at an average speed of 40 mph. If he can drive 2/3 of the way there in an hour, how far away is Boma's house?

A. 20 miles
B. 50 miles
C. 55 miles
D. 60 miles
The correct answer is option [D]
Dan travels 40 miles in an hour, and he needs to go half this distance to reach Cheryl's house (that is, he has traveled two-thirds of the way and needs to travel one more third). Divide 40 by 2 to determine a third of the total distance, and then add this to the distance traveled so far: 40 + 20 = 60.

182
Take the number of days in a leap year, add the number of months with 30 days, divide it by the number of loafs in a baker's dozen, add the number of days in March, add the square root of nine, divide by the number of days in a week. Which month are you left with?

A. June
B. July
C. August
D. September
E. October
The correct answer is option [D]

September. The numbers used are 366, +11, /13, +31, +3, /7 =9.

183
A zookeeper counted the heads of the animals in a zoo and found it to be 80. When he counted the legs of the animals he found it to be 260. If the zoo had either pigeons or horses, how many horses were there in the zoo?

A. 30
B. 40
C. 50
D. 60
E. 70
The correct answer is option [C]

184
One year payment to the servant is N200 plus one shirt. The servant leaves after 9 months and receives N120 and a shirt. Find the price of the shirt.

A. N60
B. N80
C. N100
D. N120
E. N140
The correct answer is option [D]

185
Haretown and Tortoiseville are 52 miles apart. A hare travels at 10 miles per hour from Haretown to Tortoiseville, while a tortoise travels at 3 miles per hour from Tortoiseville to Haretown. If both set out at the same time, how many miles will the hare have to travel before meeting the tortoise en route?

A. 26 miles
B. 30 miles
C. 39 miles
D. 40 miles
E. None of the above
The correct answer is option [D]

Solution
The hare and the tortoise are together covering the distance at 13 miles per hour (i.e., on adding their speeds). So, they will cover the distance of 52 miles in 4 hours.

Thus, in 4 hours, they will meet and the hare will have traveled 40miles.
Alternative Solution through Equations:
Note that : Distance = Speed x Time
Let t be the time before the hare and the tortoise meet.
In t hours, the hare will travel 10 t miles.
In t hours, the tortoise will travel 3 t miles.
Now,

10 t + 3 t = 52
So, t = 52/13 = 4 hours.

Thus, distance traveled by hare before meeting = 10 x 4 = 40miles

186
At a local village gala, the entire population turned up 500 people. The event raised N3,000. Tickets were priced as follows:
N7.48 men,
N7.12 women, and
N0.45 children.
How many children were there?

A. 92
B. 149
C. 259
D. 262
E. 267
The correct answer is option [A]

187
An empty swimming pool can be filled to capacity through an inlet pipe in 3 hours, and it can be completely drained by a drainpipe in 6 hours. If both pipes are fully open at the same time, in how many hours will the empty pool be filled to capacity?

A. 4.5
B. 5
C. 5.5
D. 6
E. 6.5
The correct answer is option [D]

188
Last week I lost my measuring tape. I had to measure Daniel's toy box. Luckily, I could remember that the top had an area of 720 square inches, the side was 800 square inches and the end was 360 square inches. What were the true dimensions of the toy box

A. Length = 44, width = 24, depth = 22
B. Length = 40, width = 18, depth = 20
C. Length = 20, width = 40, depth = 18
D. Length = 18, width = 40, depth = 20
E. Length = 40, width = 20, depth = 18
The correct answer is option [B]

189
How many 7s are there between 1 and 100?

A. 10
B. 11
C. 18
D. 19
E. 20
The correct answer is option [E]

190
Place the numbers 1-9 in the following formula, substituting each for a letter to get a valid equation.
x/yz + u/vw + r/st = 1

A. 5/34 + 7/68 + 9/1 = 1
B. 5/34 + 7/6 + 9/12 = 1
C. 5/34 + 7/68 + 9/12 = 1
D. 5/3 + 7/68 + 9/12 = 1
E. 5/34 + 7/8 + 9/12 = 1
The correct answer is option [C]

191
If the perimeter of square 1 and the diagonal of square 11 have the same length, what is the ratio of square 1 to the area of square 11?

A. 12:5
B. 5:12
C. 1:8
D. 3:4
E. 2:1

The correct answer is option [C]

192
A man insures 80% of his property and pays a 2.5% premium amounting to N348. What is the total value of his property?

A. N19,000
B. N18,400
C. N18,000
D. N17,400
E. N13,920
The correct answer is option [D]

193
A doctor gave a patient three pills to take one every half hour. How long will the pills last?

A. one and half hours

B. one hour
C. 3 hours
D. 0 hour
E. None of the above
The correct answer is option [B]

You take the fist pill at the start of the hour, the second pill thirty minutes after and the last pill at the end of the hour.

194 A rich merchant had collected many gold coins. He did not want anybody to know about them. One day, his wife asked, "How many gold coins do we have?" After pausing a moment, he replied, "Well, if I divide the coins into two unequal numbers, the difference between the numbers gives 15, then 75 times the difference between the two numbers equals the difference between the squares of the two numbers." The wife looked puzzled. Can you help the merchant's wife by finding out how many gold coins they have?

A. 100 coins
B. 95 coins
C. 85 coins
D. 75 coins
E. 65 coins
The correct answer is option [D]
Solution:

Let the unequal numbers be x and y
$x - y = 15$ ------(i)
$75(x - y) = x2 - y2$
$75(x - y) = (x + y)(x -y)$ ---------(ii)
Putting equation (i) into equation (ii), $75(15) = (x + y)(15)$
$(x + y) = 75$.
Therefore the number of coins is 75.

194
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D. 75 coins
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$x - y = 15$ ------(i)
$75(x - y) = x2 - y2$
$75(x - y) = (x + y)(x -y)$ ---------(ii)
Putting equation (i) into equation (ii), $75(15) = (x + y)(15)$
$(x + y) = 75$.
Therefore the number of coins is 75.

195
A farmer had 51 sheep. All, but 17 sheep died through a plague, how many does he have left?

A. 17
B. 34
C. 51
D. 68
E. None of the above
The correct answer is option [A]

196
Can you find a quick and elegant way to add the numbers from 1 to 30 ? In other words, what is the sum you obtain in the following case: $1 + 2 + 3 + ... + 30=$

A. 461
B. 462
C. 463
D. 464
E. 465
The correct answer is option [E]

Solution:
Here's an elegant way:
$1 + 30 = 31$
$2 + 29 = 31$
$3 + 28 = 31$
....
....
$15 + 16 = 31$

Adding the above equations gives

$1 + 2 + 3 + ... + 30 = 15 \times 31 = 465$

197
A woman delivering pizzas drives from the pizza parlor to make 3 deliveries. She drives East at 30 miles per hour for 10 minutes for the first delivery, West at 40 miles per hour for 15 minutes for the second delivery, and East at 20 miles per hour for 45 minutes for the last delivery. At this point, how far is she (in miles) from the pizza parlor?

A. 0
B. 4

C. 6

D. 8

E. 10

The correct answer is option [E]

Solution:

The first miles due east is $30 \times 1/6 = 5$ miles

The second miles due west is $40 \times 1/4 = 10$ miles

The total miles covered for the first and second deliveries = 10 - 5 = 5 miles

The third miles due east is $20 \times 3/4 = 15$ miles

The distance from the pizza parlor is 15 - 5 = 10 miles.

198
In my money box, I found \$36.80 made up of equal numbers of quarters, dimes and nickels. How many of each coin did I find?

A. 88

B. 89

C. 90

D. 91

E. 92

The correct answer is option [E]

199 Yesterday I went for a long bicycle ride around the local lakes. As the ride was quite long, I rode in various stages. In the first stage I rode half of the overall distance. Stage two saw half of the remaining distance plus 35 metres covered. Stage three covered three-quarters of the remaining distance. Stage four completed half of the remaining distance plus 75 metres. Stage five completed the journey with a final burst of 150 metres. How far did I cycle in total?

A. 7040 metres.

B. 7340 metres.

C. 7343 metres.

D. 7340 metres.

E. 7340 metres.

The correct answer is option [B]

Stage 1: cycled 3670 leaving 3670

Stage 2: cycled 1870 leaving 1800

Stage 3: cycled 1350 leaving 450

Stage 4: cycled 300 leaving 150

Stage 5: cycled 150 leaving 0

200
What 4-digit number abcd satisfies this equation?
4 * abcd = dcba

A. 2178

B. 1287

C. 7128

D. 8712

The correct answer is option [A]

201
Following the pattern shown in the number sequence below, what is the missing number?

1, 8, 27, ?, 125, 216

A. 36

B. 45

C. 46

D. 64

E. 99

The correct answer is option [D]

Each number in the question is the cube of the sequence 1, 2, 3, 4, 5, 6

202
If 1cm on a map corresponds to an actual distance of 40 kms, and the distance on the map between Abalama and Kalio-Ama is 37.5 cm, then the actual distance between them is _____ kms.

A. 375

B. 3750

C. 1500

D. 1375

E. 1543

The correct answer is option [C]

203
Recently, Amakiri, the extremely rich father of Young Harry had passed away. He had left one million dollars to Young Harry. However, the money was locked in a safe, and Young Harry would not get the money unless he knew the combination. Amakiri left a number series for his son to work out. If he could not figure it out, he wouldn't get anything. The combination is a 3-digit number, and to stop him from randomly guessing he would only be able to try once every day. Here is the series:

3, 11, 31, 55, 91, … Young Harry managed to finish the series, and get the million dollars. What is the correct number?

A. 146

B. 131

C. 130

D. 129

E. 128

The correct answer is option [B]

Solution

The series works from:

1 * 2 = 2 (+ 1) =3

3 * 4 = 12 (- 1)=11

5 * 6 = 30 (+ 1)=31

7 * 8 = 56 (- 1) =55
9 * 10 = 90 (+ 1) =91
11 * 12 = 132 (-1) =131

204
Divide 30 by 1/2 and add 10. What is the answer?

A. 25
B. 40
C. 70
D. -25
E. None of the above
The correct answer is option [C]

205
How many times does the word AUGUST appear in this grid?

A A G A U G U A A T S U G U A
A U G U S T A U G U T U T U A
A G G G A U G U S T S A S U A
T U A U G U S T U A U G U S T
A S G S S A G A U G G U G U A
U T U T U T T S U G U A U A U
T S U G U A U S T G A A A U G
A U U T U G T A U S U A T G U
A S T G S A U A U G U S T U S
T U U S U U A A U G U G T S T
A S G G U U G S U G U A U T S
T U U U G G T U U G U S A A U
A U G U S T U A A G U S T U G
U U S U A T U A U G U S T G U
A T G U A G T S U G U A T U A

A. 34 times
B. 35 times
C. 36 times
D. 37 times
E. 38 times
The correct answer is option [C]

206
If 2 karms equal 4 foz, and 1 foz equals 3 burs, how many karms are 24 burs?

A. 2 karms
B. 4 karms
C. 6 karms
D. 8 karms
E. 10 karms
The correct answer is option [B]
Solution:

2 karms equal 4 foz and 1 foz equals 3 burs
1/2 karms equals 3 burs
? karms equals 24 burs
1 × 24/2 × 3 = 4 karms.

207
Complete the sequence in the series: 6, 24, 60, 120,_____, 336, 504, 720.

A. 190
B. 210
C. 230
D. 250
E. 270
The correct answer is option [B]

(1)(2)(3) = 6;
(2)(3)(4) = 24;
(3)(4)(5) = 60;
(4)(5)(6) = 120;
(5)(6)(7) = 210;
(6)(7)(8) = 336;
(7)(8)(9) = 504;
(8)(9)(10) = 720;
The nth term in the sequence is given by n (n + 1) (n + 2).

208
During a recent trip to Scotland, I filled my petrol tank to the top with a total of 10 gallons. I travelled at 60 mph up the motorway and I knew that I could average 40 miles per gallon. However, the moment I started, my petrol tank had a leakage and four hours later I came to a halt having run out of petrol. How much petrol had I lost through the leakage?

A. 1 gallons
B. 2 gallons
C. 3 gallons
D. 4 gallons
E. 5 gallons
The correct answer is option [D]
Solution:

The miles travelled is 60mph × 4hrs = 240 miles; i.e, Speed× Time = Distance

The number of gallons used within the four hours is

240/40 = 6 gallons

The difference will be the amount lost 10 - 6 = 4 gallons.

209

Bernard weighs 100 pounds more than his sister Betsy. Their combined weight is 120 pounds. How many pounds does Bernard weigh?

A. 210
B. 200
C. 110
D. 100
E. None of the above
The correct answer is option [C]

Solution:

Let Betsy weight be x
Let Bernard weight be x + 100
x + x + 100 = 120
2x = 120 - 100
2x = 20
x = 20/2 = 10
Betsy weighs 10 pounds while Bernard weighs 10 + 100 = 110.

211

If a certain chemical costs N50 for 30 gallons, how many gallons of the chemical can be purchased for N625?

A. 12.5
B. 24
C. 325
D. 375
E. 425
The correct answer is option [D]

212

If you take 29 oranges from 60 oranges, how many oranges will you have?

A. 89
B. 60
C. 31
D. 29
E. None of the above
The correct answer is option [D]

213

A numismatist decides to divide his coin collection between his children. The oldest gets 1/2 of the collection, the next gets 1/4, the next gets 1/5, and the youngest gets the remaining 49 coins. How many coins are in the collection?

A. 980
B. 1,080
C. 1,980
D. 2,000
E. 490
The correct answer is option [A]

There are 980 coins in the collection.
Let the number of coins be x
x - (x/2 + x/4 + x/5) = 49
x - 19x/20 = 49
20x - 19x = 49(20)

x = 980.

214

What is the greatest value of a positive integer n, such that 3n is a factor of 1815?

A. 15
B. 18
C. 30
D. 33
E. 35
The correct answer is option [C]

215

Mr. and Mrs. Okon have 4 daughters and each of those daughters have 4 brothers, how many people make up the family?

A. 22
B. 20
C. 16
D. 10
E. 8
The correct answer is option [D]

216

If the average of x, y and 15 is 5, then the average of x and y is_____.

A. 5
B. 15
C. 20/2
D. 10
E. 0
The correct answer is option [E]

217

2 tyres of a car were replaced at the cost of 17 naira per tyre. If 40 naira had been expected to be paid for the 2 tyres, what percent of the expected cost was saved?

A. 75.0
B. 57.5

C. 17.6
D. 7.5
E. none of the above
The correct answer is option [E]

218
The average age of a group of 12 students is 20years. If 4 more students join the group, the average age increases by 1 year. The average age of the new student is _____.

A. 22
B. 23
C. 24
D. 26
E. 28
The correct answer is option [C]

219
If zn + qp = 6pz, and pz > o, then n/p + q/z = ?

A. zn = qp
B. 0
C. 6n +6q
D. 6zq
E. 6
The correct answer is option [E]

220
A tennis championship is played on a knock-out basis, i.e., a player is out of the tournament when he loses a match. How many matches are played in the tournament if 107 players totally participated?

A. 102
B. 103
C. 104
D. 105
E. 106
The correct answer is option [E]

221
Which two numbers best complete the series?

1, 10, 3, 9, 5, 8, 7, 7, 9, 6, ?, ?

A. 11,5
B. 10,5
C. 10,4
D. 11,6
E. 11,8
The correct answer is option [A]

Alternating numbers go up by 2, and down by 1.

222
What is the smallest number which when divided by 10 leaves a remainder of 9, when divided by 9 leaves a remainder of 8, when divided by 8 leaves a remainder of 7, when divided by 7 leaves a remainder of 6, and so on until when divided by 2 leaves a remainder of 1?

A. 2,131
B. 2,337
C. 2,519
D. 2,477
E. 2,517
The correct answer is option [C]

223
Imagine that you are building a tower of play bricks. A yellow brick is 19 millimetres tall and a green brick is 21 millimetres tall. How many of each are required to build a tower that is exactly 562 millimetres tall?

A. 15 yellow and 15 green bricks.
B. 13 yellow and 15 green bricks.
C. 13 yellow and 18 green bricks.
D. 10 yellow and 11 green bricks.
E. 17 yellow and 13 green bricks.

The correct answer is option [B]

224
The average of 5 quantities is 10 and the average of 3 of them is 9. What is the average of the remaining 2?

A. 12.5
B. 11.5
C. 12
D. 11
E. 9
The correct answer is option [B]

225
Justin takes the underground train to work and uses an escalator at the railway station. If Justin runs up 6 steps of the escalator, it will take him 60 seconds to reach the top of the escalator. If he runs up 13 steps of the escalator, it will take him only 42.5 seconds to reach the top.

How many seconds would it take Justin to reach the top if he did not run up the escalator at all?

A. 75.0
B. 70.0
C. 60.0
D. 42.5
E. 17.5
The correct answer is option [A]

If he runs up 6 steps, then he needs 60.0 seconds to reach the top.
If he runs up 13 steps, then he needs 42.5 seconds to reach the top.

The 7 additional steps take 17.5 seconds.
Therefore, each step takes 2.5 seconds.

Total steps in escalator = 6 + 60.0 / 2.5 = 30 or Total steps in escalator = 13 + 42.5 / 2.5 = 30.

If Justin did not run up any steps at all,
he would reach the top of the escalator in 75.0 seconds (i.e., 30 steps x 2.5 seconds/step).

226
Diki prefers 9 to 10 and 1,600 to 1,700 and 3,600 to 3,700. Which of the following numbers below does she prefer?

A. 25
B. 27
C. 29
D. 31
E. 33
The correct answer is option [A]
Diki prefers numbers that are squares i.e. √9 = 3; √1,600 = 40; √3,600 = 60 . The only number among the options that is a square is 25.

227
If seven people were chosen at random, what chance is there that one or more were born on a Sunday?

A. 70.5%
B. 69.1%
C. 68.9%
D. 66.1%
E. 65.3%
The correct answer is option [D]

1 - [6/7]7 = 0.661 or 66.1%

228
A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days, Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days, Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

A. 7
B. 9
C. 11
D. 12
E. 14
The correct answer is option [C]

229
The Bar Z ranch was a dude ranch. One day a new "dude" asked one of the stable hands how many men were tending the horses in the corral. Having a mischievous sense of humor, he replied, "I saw eighty-two feet and twenty-six heads". He then walked away, leaving the dude scratching his head trying to figure it out. How many men were tending the horses?

A. 15
B. 22
C. 60
D. 11
E. 82
The correct answer is option [D]

Eleven men (and 15 horses). 11 (men) x 2 (feet per man)=22

15 (horses) x 4 (feet per horse) = 60, and 22 (men's feet) + 60 (horse's feet) = 82 feet

Also, 11 (men) + 15 (horses) = 26 (total heads).

230
Complete the sequence in the series: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, _____

A. 40
B. 45
C. 50
D. 55
E. 60
The correct answer is option [D]

0 + 1 = 1;
1 + 1 = 2;
1 + 2 = 3;
2 + 3 = 5;
3 + 5 = 8;
5 + 8 = 13;
8 + 13 = 21;
13 + 21 = 34;
21 + 34 = 55;
Each term (starting with the third term) in the sequence is the sum of the two terms preceding it. The series is often referred to as the Fibonacci series. Fibonacci (1175) believed that this series was followed by various natural phenomena. In fact, the number of leaves on the stems of particular plants follows this series.

231
A box contains 90 nails each of 100 gms and 100 bolts each of 150 gms. If the entire box weighs 35.5 kg., the weight of the empty box is_____kg.

A. 10
B. 10.5
C. 11
D. 11.5
E. 11.7
The correct answer is option [C]

232
Mr. Ofori George spent one-fourth of his life as a boy, one-eighth as a youth, and one-half as an active man. If Mr. Ofori George spent 9 years as an old man, then how many years did he spend as an active man?

A. 50 years
B. 63 years
C. 36 years
D. 72 years
E. 82 years
The correct answer is option [C]

Solution:
Fraction of life as a boy = 1/4
Fraction of life as a youth = 1/8
Fraction of life as an active man = 1/2
Fraction of life as boy, youth and active man = 1/4 + 1/8 + 1/2 = (2 + 1 + 4)/8 = 7/8
Fraction of life as an old man = 1 - 7/8 = 1/8
Thus, one-eighth of Mr. Ofori's life (as an old man) is 9 years.
So, Mr. Ofori's Age = 72 years.

It may be noted that:
Life as boy = 72/4 = 18 years.
Life as youth = 72/8 = 9 years.
Life as active man = 72/2 = 36 years.
Life as old man = 72/8 = 9 years.

233
A Father, son and grandson are walking in the park. A man approaches them and ask for their age. The Father replies, "My son is as many weeks as my grandson is in days, and my grandson is as many months old as I am in years. We are all 100 years together." How old were each?

A. Father = 65 years, Son = 30 years, Grandson = 5 years
B. Father = 70 years, Son = 25 years, Grandson = 5 years
C. Father = 68 years, Son = 22 years, Grandson = 10 years
D. Father = 60 years, Son = 35 years, Grandson = 5 years
E. Father = 60 years, Son = 25 years, Grandson = 15 years
The correct answer is option [D]

234
What is the area of a triangle with sides 1, 3, and 4 inches?

A. 0
B. 1
C. 3
D. 4
E. 12
The correct answer is option [A]

It's impossible to have a triangle with those sides. The sum of two of the sides is equal to the third side. The result would be a straight line, and the area would be zero.

235
If 6 workers can build 4 cars in 2 days, then how many days would it take 8 workers to build 6 cars?

A. 5/3
B. 9/4
C. 8/3
D. 11/4
The correct answer is option [B]

236
Which of the following is the greatest?

A. 40% of 30
B. 3/5 of 25
C. 6.5% of 200
D. 1/2 of 34
E. All of the above
The correct answer is option [D]

237
The average temperature on Wednesday, Thursday and Friday was 250. The average temperature on Thursday, Friday and Saturday was 240. If the temperature on Saturday was 270, what was the temperature on Wednesday?

A. 240
B. 210
C. 270
D. 300
E. 304
The correct answer is option [D]

Therefore the price of Tom tom = N4, Trebor = N23 and Buttermint = N13.

247
Qiana can have a piece of work done in 8 days, Nissi can work three times faster than Qiana, Ala can work five times faster than Qiana. How many days will they take to do the work together?

A. 3 days
B. 8/9 days
C. 4 days
D. 5 days
E. Cannot be determined
The correct answer is option [B]

248
Which letter comes next in the series of alphabets?
B, A, C, B, D, C, E, D, F, ?

A. C
B. D
C. E
D. F
E. G
The correct answer is option [C]

Alternating letters increase by one.

249
x% of y is y% of_____.

A. x
B. y
C. x/y
D. 2x
E. cannot be determined
The correct answer is option [A]

250
Following the pattern shown in the number sequence below, what is the missing number?

1, 81, ?, 2401

A. 89
B. 625
C. 526
D. 296
E. 605
The correct answer is option [B]

Each number is in the fourth power to the sequence 1, 3, 5, 7.

251
James and Steve were busy emptying their book shelves from one room to another. James on his own could have cleared the room in 18 hours. Steve also would take 18 hours. Unfortunately, John was moving the books back into the first room from the second room. He could fill the first room in 36 hours. How long will it take the three of them to complete the task?

A. 24 hours
B. 18 hours
C. 16 hours
D. 12 hours
E. 8 hours
The correct answer is option [D]

252
Tom, Dick and Harry went for lunch to a restaurant. Tom had $100 with him, Dick had $60 and Harry had $409. They got a bill for $104 and decided to give a tip of $16. They further decided to share the total expenses in the ratio of the amounts of money each carried. The amount of money Tom paid is more than what Harry paid by_____.

A. 24
B. 36
C. 48
D. 60
E. 72
The correct answer is option [B]

253
During a recent cricket match, the total number of runs scored by the first six batmen was 103. The first batman scored half the runs of the second batman, who in turn scored 6 runs less than the third batman. The third batman in turn scored two thirds the runs of the fourth batman. The fifth batman managed to score the same number of runs as the difference between the first and fourth batman's runs. Finally, the sixth batman scored 14 less than the fifth batman. Can you determine how many runs the sixth batman managed to score?

A. 9 runs
B. 8 runs
C. 7 runs
D. 6 runs
E. 5 runs
The correct answer is option [A]

9 runs: Respectively the scores were 7, 14, 20, 30, 23, 9.

254

Each child in a family has at least five brothers and four sisters. What is the smallest number of children the family might have?

A. 9
B. 11
C. 13
D. 15
E. 20
The correct answer is option [B]

Solution:
If each boy in the family has at least 5 brothers, then the smallest number of boys is 6.

Similarly, if each girl in the family has at least 4 sisters, then the smallest number of girls is 5.

Thus, the smallest number of children the family might have is 11.

255

Complete the sequence in the series: 2, 3, 4, 12, 6, 23, 8, 36, 10,_____.

A. 40
B. 44
C. 51
D. 55
E. 59
The correct answer is option [C]

The odd terms of the sequence are simply even numbers.
The even terms are 3, 12, 23, 36, ...
12 - 3 = 9; 23 - 12 = 11; 36 - 23 = 13;
The differences between two consecutive even terms are 9, 11, 13, 15, ...
So, 51 - 36 = 15.

256

As my birthday approaches, I start to collect leaves. If on the first day of the month I collect one leaf, on the second day I collect two and so on. By my birthday I would have collected 276 leaves altogether. On which day of the month is my birthday?

A. 21st
B. 22nd
C. 23rd
D. 24th
E. 25th
The correct answer is option [C]
Solution

On the 23rd. 276 = 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 + 11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 + 21 + 22 + 23.

257

If a building b feet high casts a shadow f feet long, then, at the same time of day, a tree t feet high will cast a   shadow of how many feet long?

A. ft/b
B. fb/t
C. b/ft
D. tb/f
E. Insufficient data
The correct answer is option [A]

258

If a class begins at 2:21pm and ends at 4:36pm the same afternoon, how many minutes long is the class?

A. 75 minutes
B. 135 minutes
C. 150 minutes
D. 215 minutes
E. 285 minutes
The correct answer is option [B]

260

What is the missing number in the sequence?
1, 4, 9, ? 25.

A. 12
B. 14
C. 16
D. 18
E. 20
The correct answer is option [C]

261

A certain number of men can finish a piece of work in 10 days. If there were 10 men less, it will take 10 days more for the work to be finished. How many men were there originally?

A. 100 men
B. 110 men
C. 125 men
D. 135 men
E. None of the above
The correct answer is option [B]

263

A person was fined for exceeding the speed limit by 10mph. Another person was also fined for exceeding the same speed limit by twice the same. If the second person was travelling at a speed of 35 mph, what is the speed limit?.

A. 15mph
B. 16mph
C. 17mph
D. 18mph
E. 19mph
The correct answer is option [A]
Solution
Let 'x' be the speed limit
Person 'A' was fined for exceeding the speed limit by = 10mph
Person 'B' was fined for exceeding the speed limit by = twice of 'A' = 2*10mph=20mph
Given that the second person was traveling at the speed of 35mph
=> 35mph - 20mph = 15mph

Therefore the speed limit is =15 mph

264

If you count from 1 to 100, how many 8's will you pass on the way?

A. 10
B. 11
C. 19
D. 20
E. 21
The correct answer is option [C]
Solution:

8, 18, 28, 38, 48, 58, 68, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 98

Counting the numbers gives19.

265

Assume that you have just heard of a scandal and that you are the first one to know. You pass it on to 4 persons in a matter of 30 minutes. Each of these 4 persons in turn passes it to 4 other persons in the next 30 minutes and so on. Assume that no one hears it more than once and that the world population is 5.6 billion. How long will it take for everybody in the world to get to know the scandal?

A. 10 hours
B. 8 hours
C. 6 hours
D. 4 hours
E. 17 hours

The correct answer is option [B]

266

With 4/5 full tank a vehicle travels 12 miles. With 1/3 full tank, how much distance will the vehicle travel?

A. 10 miles
B. 8 miles
C. 7 miles
D. 6 miles
E. 5 miles
The correct answer is option [E]

267

Amakiri does as much work in three hours as Kunle does in four hours. Kunle's son works half as fast as Kunle. If the three working together are paid N8.50k, how much should Kunle's son receive?

A. N2.00
B. N4.50
C. N3.00
D. N1.50
E. N2.20
The correct answer is option [D]

268

The Cintel mechanical computer is a very sensitive device. It consists of four sequential cog wheels which are in constant mesh. The largest cog has 63 teeth and the others have 42, 35 and 27 respectively. By accident, Daniel started to rotate the largest cog. How many revolutions must the largest cog make before the computer is back in its starting position (with all of the cogs where they started)?

A. 30 revolutions
B. 35 revolutions
C. 40 revolutions
D. 45 revolutions
E. 50 revolutions
The correct answer is option [A]

269

Six gross of special drawing pencils were purchased for use in a department. If the pencils were used at the rate of 24 a week, the maximum number of weeks that the six gross of pencils would last is _____ weeks.

A. 6
B. 12
C. 24
D. 36

E.18
The correct answer is option [D]

270
 Start with a number larger than 0, square it, add 4, double it, take away 3, multiply by 4 and finally subtract the original number from it. If you were now left with 20, what number did you start with?

A. 1/8
B. 1/7
C. 1/6
D. 1/5
E. 1/4
The correct answer is option [A]

271
 It was Flourish's first day at school. The teacher suggested that it would be a good idea for each child to meet every other child in the class. The teacher said, "When you meet, please shake hands and introduce yourself by name." If there were 12 children in the class, how many total handshakes were there?

A. 11
B. 12
C. 60
D. 66
E. 67
The correct answer is option [D]

The class has 12 children. The first child shakes hands with the other 11 children. The second child has already shaken hands with the first child, and so has to shake hands with only the other 10 children. In this manner, the second-last child has to shake hands with only one child, and the last child has already met all the children. Thus, the number of handshakes is:

11 + 10 + ... + 2 + 1 =66.

If there were 12 children in the class, then there were 66 total handshakes.

272
 Which of the following number is 9 times the sum of its digits?

A.9
B. 10
C. 26
D.81
E. 118
The correct answer is option [D]

Solution:

The number is 81, simply because
81 = 9 (8 +1).

273
 N5887 is divided between Helen and Bryan, such that Helen's share at the end of 9 years is equal to Bryan's share at the end of 11 years compounded annually at the rate of 5%. What is Helen's share?

A. N2088
B. N2000
C. N3087
D. N1967
E. None of the above
The correct answer is option [C]

274
 Diki, Ala, Nissi, and Qiana shared a N2000 prize, Ala got twice as much as Diki, Nissi got 3 times as much as Diki, and Qiana got N200. How much, in naira, did Diki get?

A. N300
B. N200
C. N400
D. N500
E. N600
The correct answer is option [A]

275
 Complete the sequence in the series: 2, 6, 12, 20, 30, 42, 56,_____.

A. 64
B. 69
C. 72
D. 79
E. 82
The correct answer is option [C]

(1)(2) =2;
(2)(3) =6;
(3)(4) =12;
(4)(5) =20;
(5)(6) =30;
(6)(7) =42;
(7)(8) =56;
(8)(9) =72;
The nth term in the sequence is given by n (n +1).

276
 A merchant marks his goods in such a way that the profit on sale of 50 articles is equal to the selling price of 25 articles. What is his profit margin?

A.25%
B.50%

C. 66.67%
D. 100%
E. 125%
The correct answer is option [D]

277
The price of sugar increases by 20%. By what % should a housewife reduce the consumption of sugar so that expenditure on sugar can be same as before?

A. 9%
B. 12%
C. 15.55%
D. 16.16%
E. 17%
The correct answer is option [D]

278
How many integers between 100 and 150 inclusive, can be evenly divided by neither 3 nor 5?

A. 33
B. 28
C. 27
D. 26
E. 24
The correct answer is option [C]

279
Tarela buys three items at the store for exactly N100. The second item costs half as much as the first item, and the third item is half as much as the second. How much did each one cost?

A. First: N50, Second: N25, Third: N12.5
B. First: N60, Second: N30, Third: N15
C. First: N57.14, Second: N28.57, Third: N14.285
D. First: N65, Second: N32.5, Third: N15.25
The correct answer is option [C]

279
Tarela buys three items at the store for exactly N100. The second item costs half as much as the first item, and the third item is half as much as the second. How much did each one cost?

A. First: N50, Second: N25, Third: N12.5
B. First: N60, Second: N30, Third: N15
C. First: N57.14, Second: N28.57, Third: N14.285
D. First: N65, Second: N32.5, Third: N15.25
The correct answer is option [C]

280

Ann purchased a house for N139,547. She wants to sell it for a profit of exactly 15%. However, she does not want to sell it herself, she wants a real estate agent to sell it for her. The agent must make a commission of exactly 5.6% (in addition to Ann's 15% profit). How much must the Agent sell the house? Give your answer to the nearest Naira.

A. N178,000
B. N177,500
C. N174,000
D. N170,000
E. N169,200
The correct answer is option [D]

Solution:

The Agent must sell Ann's house for N170,000. The Agent gets N9,520 as commission (i.e., 0.056 x 170000).

Ann gets (including profit) N160,480, i.e., 170,000 - 9,520. It may be noted that: (160,480 - 139,547) /139,547 x 100 = 15%.

Importantly, the profit is calculated on the purchase cost (by Ann) and the commission is calculated on the selling price (by the Agent).

The problem may also be solved by setting up the following equation:

Purchase Cost + Ann's Profit + Agent's Commission = Selling Price

139,547 + (15/100) 139,547 + (5.6/100) S = S
where S is the Selling Price in Naira.

The equation may be solved as shown below.
160,480 + 0.056 S = S

S = 160,480/(1 - 0.056) = 170,000.

281
My local greengrocer is a would-be mathematician. He likes to arrange his apples in nice rows. However, when he lays his apples in rows of 3, he has one left over. When he lays them in rows of 5, he also has one left over. Remarkably he also has one left over when he arranges them in rows of 7 and 9. 11 seems to be the magic number, for in rows of 11 there are no apples left over. How many apples does the greengrocer have?

A. 946
B. 964
C. 469
D. 496

E.694
The correct answer is option [A]

282
If 0.2t = 2.2 - 0.6s and 0.5s = 0.2t + 1.1, then s =

A. 1
B. 3
C. 10
D. 11
E. 13
The correct answer is option [B]

283
Pricillia put six different colored beans in a bag. She had red, blue, pink, orange, yellow, and purple colored beans. There were 30 beans total in the bag. If there were 4 red beans, 2 blue beans, 6 pink beans, 5 orange beans, 4 yellow beans, and 9 purple beans. What is the probability that someone could pull a pink or a yellow bean out of the bag?

A. 0
B. 1/5
C. 2/15
D. 1/15
E. 1/3
The correct answer is option [E]

Solution
You have a one third chance of getting a pink or a yellow bean.
6 + 4 = 10
10/30 = 1/3

284 In Hints International High School, the science department has three disciplines. In total, 280 students study chemistry, 254 students study physics and 280 students study biology. 97 students study both chemistry and physics, 138 students study both physics and biology, 152 students study both chemistry and biology. 73 students study all three disciplines. How many students are there in the science department?

A. 73
B. 387
C. 460
D. 500
E. 814
The correct answer is option [D]

285

I once cashed a cheque at the bank. I had spent N4.49 before I realised the bank clerk had made a mistake. He had transposed the Naira with the Kobo. I now had exactly 5 times the value of the original cheque. What was the original cheque value?

A. N9.98
B. N52.9
C. N9.52
D. N25.9
E. N9.25
The correct answer is option [C]

286
How many litres of water should be added to a 30 litre mixture of milk and water, containing milk and water in the ratio of 7 : 3, such that the resultant mixture has 40% water in it?

A. 7 Litres
B. 10 Litre
C. 5 Litres
D. 6 Litres
E. None of the above
The correct answer is option [C]

287
Two identical taps fill 2/5 of a tank in 20 minutes. In how many minutes will the remaining one tap fill the rest of the tank when one of the taps goes dry?

A. 5 minutes
B. 10 minutes
C. 15 minutes
D. 20 minutes
E. 28 minutes
The correct answer is option [C]

288
A man bought a motor cycle for N160.00, sold it for N170.00, then bought it back for N180.00, and finally sold it for N190.00. How much did he make or lose in this series of transactions?

A. N10 lose
B. N30 profit
C. N10 profit
D. N20 profit
E. N20 lose
The correct answer is option [D]

288
A man bought a motor cycle for N160.00, sold it for N170.00, then bought it back for N180.00, and finally sold it for N190.00. How much did he make or lose in this series of transactions?

A. N10 lose
B. N30 profit
C. N10 profit
D. N20 profit
E. N20 lose
The correct answer is option [D]

289
(Use the information to answer the question, the list of vowels is 1000 miles and consonant is 2000 miles.)

My Hints electronic world atlas, has developed a fault. I did a listing of miles from Scotland to particular countries and here is the result:

England 12,000 miles
Peru 6,000 miles
Egypt 9,000 miles
Iceland 11,000 miles
How far away did it list Ethiopia as?

A. 11,000 miles.
B. 12,000 miles
C. 9,000 miles
D. 6,000 miles
E. None of the above
The correct answer is option [A]

Solution:

11,000 miles.
Each vowel is worth 1,000 miles, each consonant is worth 2,000 miles. So, you add up all the vowels in Ethiopia which comes up to 5,000 miles and all the consonants add up to 6,000 miles; this sums up to 11,000 miles.

290
Last week I decided to cycle to my grandmother's house. On the first day, I cycled half of the distance. On day 2, I cycled one half of the remaining distance. On day 3, I cycled three quarters of the remaining distance. On day 4, I cycled 10 miles. On day 5, I cycled two thirds of the remaining distance and on the final day, I cycled the remaining 5 miles. How far is it to my grandmother's house?

A. 475 miles
B. 450 miles
C. 425 miles
D. 400 miles
E. 375 miles

The correct answer is option [D]

291
What is the value of (0.75 * 0.75 * 0.75 - 0.001)/(0.75 * 0.75 - 0.075 + 0.01)?

A. 0.845
B. 1.908
C. 2.312
D. 0.001
E. 0
The correct answer is option [A]

292
Following the pattern shown in the number sequence, what is the missing number?
100, 400, 900, 1600, 2500, ?, 4900.

A. 2800
B. 3000
C. 3200
D. 3400
E. 3600
The correct answer is option [E]
Each number is the square of the sequence 10, 20, 30, 40, 50, 60, 70

293
Desmond is renovating the local hospital. He has to number each of the rooms in the hospital with plastic numbers. However, he ran out of the number 9. How many 9's must Desmond buy in order to number all 999 rooms?

A. 304
B. 303
C. 302
D. 301
E. 300
The correct answer is option [E]

He required 300 9's. Start with: 9, 19, 29, 39, 49, 59, 69, 79, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99 - which has 20 9's. We then repeat this for 100, 200, 300, up to 900 - which is 200 9's. But from 900 to 999 we have an extra 100 9's as each starts with a 9. So the total is 300.

294

A monk has a very specific ritual for climbing up the steps to the temple. First he climbs up to the middle step and meditates for 1 minute. Then he climbs up 8 steps and faces east until he hears a bird singing. Then he walks down 12 steps and picks up a pebble. He takes one step up and tosses the pebble over his left shoulder. Now, he walks up the remaining steps three at a time which only takes him 9 paces. How many steps are there?

A. 120
B. 200
C. 60
D. 49
E. 18
The correct answer is option [D]

He hears the bird singing on step 33. He picks up the pebble on the 21st step and tosses it on the 22nd step. The remaining 27 steps are taken three at a time which is 9 paces.

295

There are 5 red shoes, 4 green shoes. If one randomly draws a shoe, what is the probability of getting a red shoe?

A. 5/9
B. 4/9
C. 1/9
D. 9
E. 0
The correct answer is option [A]

297

A plane maintains an average speed of 696mph from London to New York. It then returns from New York to London at an average speed of 145mph. What is the average speed for the entire journey?

A. 204mph
B. 145mph
C. 240mph
D. 274mph
E. None of the above
The correct answer is option [C]

240mph: let the distance be x miles. Therefore, the outward trip takes x/696 hours and the return trip takes x/145 hours. The total distance travelled is hence 2x, in a time of (x/696 + x/145). Therefore the speed (distance / time) is given by 2x/(x/696 + x/145) = 240mph.

299

If one third of sixty is added to one fourth of 80 and 40 is subtracted from this sum, what will be the remainder?

A. 0
B. 20
C. 40
D. 80
E. 100
The correct answer is option [A]

300

What is sum of half of two plus two?

A. 2
B. 3
C. 4
D. 5
E. None of the above
The correct answer is option [B]

$2 + [1/2 × 2] = 3$.

301

A car is filled with four and half gallons of oil for full round trip. Fuel is taken 1/4 gallon more in going than coming. What is the fuel consumed in coming (approximate the answer to a whole number)?

A. 2
B. 3
C. 4
D. 5
E. 6
The correct answer is option [A]

Solution
Before the trip, car is filled with = 4 ½ gallon of oil
Let 'X' be the quantity of fuel consumed for the trip in one direction
The fuel consumed while going = X + ¼
The fuel consumed while coming = X
Therefore, the fuel consumed for the trip = (X + ¼) + X = 4 ½
2X + ¼ = 4 ½ => 2X = 4 ½ - ¼ => 2X = 4 ¼ => X= 2. approx
Therefore the fuel consumed while coming = 2 gallon

302

A stairway 10ft high is such that each step accounts for half a foot upward and one-foot forward. What distance will an ant travel if it starts from ground level to reach the top of the stairway?

A. 29ft
B. 33ft

C. 10ft
D. 30ft
E. 26ft
The correct answer is option [A]

303
 A rectangle is 14cm long and 10cm wide. If the length is reduced by Xcm and its width increased also by Xcm so   as to make it a square, then its area will change by_____cm.

A. 4
B. 144
C. 12
D. 2
E. 1
The correct answer is option [A]

304
 A snail creeps 9 ft up a wall during the daytime. After all the labour it does throughout the day, it stops to rest a while, but falls asleep. The next morning, it wakes up and discovers that it has slipped down 5 ft while sleeping. If this happens every day, how many days will the snail take to reach the top of a wall 17ft in height?

A. 5 days
B. 4 days
C. 3 days
D. 2 days
E. 1 day
The correct answer is option [C]

Solution:
On the first day, the snail climbs up 9 ft and slips down 5 ft while sleeping. So, next morning, it is 4 ft from where it started. The snail thus travels 4 ft upwards every day. Therefore, in 2 days, it has traveled a distance of 8 ft from the bottom.

Here lies the catch to the problem! On the last day, the snail travels 9 ft upwards and hence reaches the top of the wall in a total of 3 days.

305
 If Ala prefers 225 to 224, 900 to 145, and 144 to 145, which of the options below does she prefer?

A. 1,600
B. 1,700
C. 1,800
D. 1,900
E. 2,000
The correct answer is option [A].

Ala prefers numbers that are squares i.e. √225 = 15; √900 = 30; √144 = 12. The only number among the options that is a square is 1,600.

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

1
As a disease
P : and breaks up marriages
Q: accidents and suicides
R : alcoholism leads to
S : affecting all ages
The proper sequence should be_____.

A. SRPQ
B. RPSQ
C. SRQP
D. RQPS
The correct answer is option [C]

2
Car is to Engine as Rowboat is to_____.

A. Oar
B. Human
C. Ocean
D. Wood
E. Sail
The correct answer is option [B]

3
What is the missing letter in this series?
.....h g ? e d.

A. a
B. b
C. c
D. f
E. i
The correct answer is option [D]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
4
TEN : DECIMAL

A. seven : septet
B. four : quartet
C. two : binary
D. five : quince
The correct answer is option [C]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

5
CORPOREAL : SPIRITUAL

A. moron : savant
B. mesa : plateau
C. foreigner : immigrant
D. pedagogue :teacher
The correct answer is option [A]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

6
Arrange the words given below in a meaningful sequence.
1. Caste 2. Family 3. Newly married Couple 4. Clan 5. Species

A. 2, 3, 1, 4,5
B. 3, 4, 5, 1,2
C. 3, 2, 1, 4,5
D. 4, 5, 3, 2,1
The correct answer is option [C]

7
Add a letter to the beginning of me, and then read me backwards, and you have a word that means "to run away secretly with the intention of getting married." Someone resides at one of me - add a letter to the end of his last name, and you have a provision in a document. What am I?

A. Escape
B. House
C. Pole
D. Kidnap
E. Continent
The correct answer is option [C]

Pole. The other word referred to was elope.

8
Which three-letter word can be placed in front of the following words to make a new word?
FELLOW, PLATE, POST

A. BEG
B. BED
C. BID
D. CAR
E. CAP

The correct answer is option [B]

9

During the recent Hints cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.

Which country does 101011000011110 stand for?

A. Japan
B. Jamaica
C. Jericho
D. Jerusalem
E. Johannesburg
The correct answer is option [A]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

10

Arrange the words given below in a meaningful sequence.
1. Infant 2. Old 3. Adult 4. Adolescent 5. Child

A. 5, 4, 3, 2, 1
B. 3, 4, 2, 1, 5
C. 2, 3, 4, 5, 1
D. 1, 5, 4, 3, 2
The correct answer is option [D]

11

Which is the odd one in the option?

A. Regularly
B. Annually
C. Weekly
D. Fortnightly
E. Monthly
The correct answer is option [A]

12

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

When he

P: did not know

Q: he was nervous and

R: heard the hue and cry at midnight

S: what to do

The proper sequence should be _____.

A. RQPS
B. SQPR
C. QSPR
D. PQRS
The correct answer is option [A]

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to beat variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:

(A) If only (1) conclusion follows

(B) If only (2) conclusion follows

(C) If either (1) or (2) follows

(D) If both (1) and (2) follow.

13

Statements: All the harmoniums are instruments. All the instruments are flutes.
Conclusions:
All the flutes are instruments.
All the harmoniums are flutes.

A. Only (1) conclusion follows
B. Only (2) conclusion follows
C. Either (1) or (2) follows
D. Both (1) and (2) follow
The correct answer is option [B]

14

The sentence "neither of them are guilty" is correct.

A. True
B. False
The correct answer is option [B]

The correct sentence is 'neither of them is guilty'.

15

During the recent Brainfriend cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.

Which country does the code 1101111111011111111110010011 represent?

A. Mongolia
B. Malaysia
C. Mali
D. Mauritania
E. Mauritius
The correct answer is option [A]

16

Which is the odd one out?

A. Arrow
B. Dagger
C. Spear
D. Shield
E. None of the above
The correct answer is option [D]

Shield is the odd one out because it is the only piece of defensive armor. Arrow, dagger and spear are pointed weapons used to attack.

17

Arrange the words given below in a meaningful sequence.
1. Adult 2. Child 3. Infant 4. Boy 5. Adolescent

A. 1, 3, 4, 5, 2
B. 2, 3, 5, 4, 1
C. 2, 3, 4, 1, 5
D. 3, 2, 4, 5, 1
The correct answer is option [D]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

18
Frenchwoman

P : committed suicide

Q : where she had put up

R : who had come to Calcutta

S : by jumping from the first floor balcony of the hotel

The proper sequence should be _____.

A. PRQS
B. QSRP
C. RPSQ
D. SRQP
The correct answer is option [C]

19

Which is the odd one in the options?

A. Locker
B. Carpet
C. Bench
D. Drawer
E. Cupboard
The correct answer is option [B]

20

Which is the odd one out?

A. Farm
B. Duplex
C. Bungalow
D. Cottage
E. Hut
The correct answer is option [A]

Farm is the odd one out because it usually refers to piece of cultivated land. Bungalow, cottage and hut are types of houses.

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

21
WAN : COLOUR

A. corpulent : weight
B. pallid : complexion
C. insipid : flavour
D. enigmatic : puzzle

The correct answer is option [C]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

22

LIGHT : BLIND

A. speech : dumb
B. language : deaf
C. tongue : sound
D. voice : vibration
The correct answer is option [A]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.

23

To leave someone in the lurch is to_____.

A.come to compromise with someone
B. constant source of annoyance to someone
C. put someone at ease
D.desert someone in time of difficulty
The correct answer is option [D]

24

North Pole, Arctic Circle,_____, Equator.

A. West pole
B. Tropic of Cancer
C. Antarctic Circle
D. Tropic of Capricorn
E. South Pole
The correct answer is option [B]

Here latitudes are arranged from the North Pole to the Equator. Tropic of Cancer lies between the Arctic Circle and the Equator.

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

25

THRUST : SPEAR

A. mangle : iron
B. scabbard : sword
C. bow : arrow
D. fence : epee
The correct answer is option [D]

26

The sentence " she said that she was leaving" can be written in a direct quotation form as_____.

A. she said' I am leaving'
B. she said; I am leaving
C. she said, "I am leaving"
D. "she said" I am leaving
E. None of the above
The correct answer is option [C]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

27

It has been established that

P : Einstein was
Q: although a great scientist
R : weak in arithmetic
S: right from his school days

The proper sequence should be_____.

A. SRPQ
B. QPRS
C. QPSR
D. RQPS
The correct answer is option [B]

28

If ERROR is related to practice; SOUND is related to _____.

A. DEAFNESS
B. NOISE
C. MUFFLER
D. HORN
E. None of the above
The correct answer is option [C]
A MUFFLER reduces noise as PRACTICE reduces error.

29

If PAINTER is related to BRUSH; PLUMBER is related to _____.

A. HAMMER
B. PIPE

C. SHOP
D. WRENCH
E. None of the above
The correct answer is option [D]

30
During the recent Buckles cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.
Which country does the code 101111110010110011 represent?

A. West Malaysia
B. West Germany
C. West Indies
D. Washington
E. Wales
The correct answer is option [E]

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:
(A) If only (1) conclusion follows
(B) If only (2) conclusion follows
(C) If either (1) or (2) follows
(D) If both (1) and (2) follow.

31
Statements: Some mangoes are yellow. Some tixo are mangoes.

Conclusions:
Some mangoes are green.
Tixo is a yellow.

A. Only (1) conclusion follows
B. Only (2) conclusion follows
C. Either (1) or (2) follows
D. Both (1) and (2) follow

The correct answer is option [D]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
32
HOPE : ASPIRES

A. love : elevates
B. fib : lie
C. film : flam
D. fake : ordinary
The correct answer is option [B]

33
Which is the odd one out?

A. Ear
B. Lip
C. Nose
D. Eye
E. Chest
The correct answer is option [E]

Chest is the odd one out because it is not a part of the face. Ear, lip, eye and nose are parts of the face.

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
34
People

P : at his dispensary

Q : went to him

R : of all professions

S : for medicine and treatment

The proper sequence should be _____.

A. QPRS
B. RPQS
C. RQSP
D. QRPS
The correct answer is option [C]

35
Which is the odd one out?

A. Eagle
B. Plane
C. Rocket
D. Squirrel
E. Cloud
The correct answer is option [D]

Squirrel is the odd one out because the eagle, cloud and plane can be seen moving in the sky.

36
Which is the odd one out?

A. Table
B. Wood
C. Chair
D. Cupboard
E. Cabinet
The correct answer is option [B]

Wood is the odd one out because it is a material used to make furniture such as the table, chair and cupboard.

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

37
Arrange the words given below in a meaningful sequence.
1. Leaves 2. Branch 3. Flower
4. Tree 5. Fruit

A. 4, 3, 1, 2,5
B. 4, 2, 5, 1,3
C. 4, 3, 2, 1,5
D. 4, 2, 1, 3,5
The correct answer is option [D]

38
Belema, Furo, Ibimina, Ibisiki, and Tekena were the top five finishers in the national 700-mile race. They drove yellow, orange, green, red and blue cars but not necessarily in that order. Neither Ibisiki nor Tekena drove the green car. Ibisiki finished faster than Belema and Tekena. The blue car finished earlier than Tekena 's and Ibimina 's car. The yellow car finished faster than the green car and the orange car. Belema 's and Tekena 's car finished ahead of the orange car. Furo 's car finished before the blue and the yellow car.
Who drove the blue car and what place did he finish?

A. Ibimina: 5th
B. Ibisiki: 2nd
C. Tekena: 3rd
D. Tekena: 1st

The correct answer is option [B]

39
Which three-letter word can be placed in front of the following words to make a new word?
LIGHT, BREAK, TIME

A. BOX
B. SAP
C. DAY
D. BED
E. PAN
The correct answer is option [C]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
40
To hit the nail right on the head is to_____.

A. be exactly correct
B. destroy one's reputation
C. announce one's fixed views
D. teach someone a lesson
The correct answer is option [A]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
41
A shot in the dark is to_____.

A. be able to see in the dark
B. tell a big fat lie
C. floor a person with a punch to the face
D. take a wild guess
The correct answer is option [D]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
42
To drive home a point is to_____.

A. find one's roots
B. return to place of rest
C. be back to original position
D. emphasize
The correct answer is option [D]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

43

Arrange the words given below in a meaningful sequence.
1. Presentation 2. Recommendation 3. Arrival 4. Discussion 5. Introduction

A. 5, 3, 4, 1, 2
B. 3, 5, 4, 2, 1
C. 3, 5, 1, 4, 2
D. 5, 3, 1, 2, 4
The correct answer is option [C]

44

Identify the word that can be formed from the complete letters in the word 'INSATIABLE'.

A. Satiable
B. Banalities
C. Table
D. Basin
E. None of the above
The correct answer is option [B]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

45

Arrange the words given below in a meaningful sequence.
1. Cut 2. Puon 3. Mark 4. Measure 5. Tailor

A. 3, 1, 5, 4, 2
B. 2, 4, 3, 1, 5
C. 1, 3, 2, 4, 5
D. 4, 3, 1, 5, 2
The correct answer is option [D]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

46

Arrange the words given below in a meaningful sequence.
1. Yarn 2. Pleat 3. Saree 4. Cotton 5. Cloth

A. 2, 4, 5, 1, 3
B. 2, 4, 3, 5, 1
C. 2, 4, 1, 5, 3
D. 2, 4, 5, 3, 1
The correct answer is option [C]

47

Rearrange the scrambled word below to form a proper word.

HCPRAATEU

A. APATHCUTE
B. CUTEPATH
C. PARACUTE
D. PARACHUTE
E. CATEPARA
The correct answer is option [D]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

48

It was to be

P : before their school examination
Q : which was due to start
R : the last expedition
S : in a month's

The proper sequence should be _____.

A. SRQP
B. RQSP
C. RPQS
D. SPRQ
The correct answer is option [C]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

49

This time

P : exactly what he had been told
Q : the young man did?
R : beyond his dreams
S : and the plan succeeded

The proper sequence should be _____.

A. QPRS
B. QPSR
C. PQSR

D. QSRP

The correct answer is option [B]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

50

He knew that

P : and then to save himself
Q : was to save all the lives
R : entrusted to his care
S : the duty of a captain

The proper sequence should be_____.

A. PQRS
B. SQRP
C. SPRQ
D. QSRP

The correct answer is option [B]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

51

Arrange the words given below in a meaningful sequence.
1. Heel 2. Shoulder 3. Skull 4. Neck 5. Knee 6. Chest 7. Thigh 8. Stomach 9. Face 10. Hand

A. 3, 4, 7, 9, 2, 5, 8, 10, 6, 1
B. 3, 9, 4, 2, 10, 6, 8, 7, 5, 1
C. 2, 4, 7, 10, 1, 5, 8, 9, 6, 3
D. 4, 7, 10, 1, 9, 6, 2, 5, 8, 3

The correct answer is option [B]

52

80 is to octogenarian as 90 is to_____.

A. nonagenarian
B. novagenarian
C. novascotian
D. nanogenarian
E. nacogenarian

The correct answer is option [A]

An octogenarian is between 80 and 90 years old, and a nonagenarian is between 90 and 100 years old.

53

There are 900 bottles to be filled. Jim and Molly working independently but at the same time take 30 minutes to fill the bottles. How long should it take Molly working by herself to fill the bottles?

Statement 1 -Molly fills half as many bottles as Jim.

Statement 2 -Jim would take 45 minutes by himself.

Which of the statements above make it possible to answer the question?

A. Statement 1 alone is sufficient, but statement 2 alone is not sufficient.

B. Statement 2 alone is sufficient, but statement 1 alone is not sufficient.

C. Both statements together are sufficient, but neither statement alone is sufficient.

D. Each statement alone is sufficient.

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:

(A) If only (1) conclusion follows

(B) If only (2) conclusion follows

(C) If either (1) or (2) follows

(D) If both (1) and (2) follow.

54

Statements: Some papers are pens. All the pencils are pens.

Conclusions:

Some pens are pencils.
Some pens are papers.

A. Only (1) conclusion follows
B. Only (2) conclusion follows
C. Either (1) or (2) follows
D. Both (1) and (2) follow
The correct answer is option [D]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

55
GRAVITY : PULL

A. iron : metal
B. north pole : directions
C. magnetism : attraction
D. dust : desert
The correct answer is option [C]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

56
t is not, therefore

P : that I pay a tribute

Q : to conductors as a class

R : with any feeling of unfriendliness

S : to a particular member of that class

The proper sequence should be _____.

A. PQRS
B. RQPS
C. RSPQ
D. PSRQ
The correct answer is option [C]

57
The figure of speech   'simile' is the same thing as 'personification'.

A. True

B. False
The correct answer is option [B]

Simile is comparing things with the use of "like or as' Personification is the act of giving human qualities to inanimate or lifeless objects.

59
Which is the odd one out?

A. Walk
B. Jog
C. Run
D. Sit
E. Jump
The correct answer is option [D]

Sit is the odd one out because the legs are not used here. When we walk, run and jog, the legs are used to move.

60
Egg, _____, pupa, butterfly.

A. tadpole
B. larva
C. spawn
D. cocoon
E. None of the above
The correct answer is option [B]

Here a life cycle is given according to stages from the initial stage to the adult stage. Larva is the stage between the egg and the pupa. Spawn is the term for fish eggs or frog's eggs. Cocoon is the covering in the pupa stage. Tadpole is an intermediate stage in the life cycle of a frog.

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

61
He told us that

P : and enjoyed it immensely

Q : in a prose translation

R : he had read Milton

S : which he had borrowed from his teacher

The proper sequence should be _____.

A. RSQP

B. QRPS
C. RQSP
D. RQPS
The correct answer is option [C]

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:

(A) If only (1) conclusion follows

(B) If only (2) conclusion follows

(C) If either (1) or (2) follows

(D) If both (1) and (2) follow.

62
Statements: Some ants are parrots. All the parrots are apples.
Conclusions:
All the apples are parrots.
Some ants are apples.

A. Only (1) conclusion follows
B. Only (2) conclusion follows
C. Either (1) or (2) follows
D. Both (1) and (2) follow
The correct answer is option [B]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

63
Arrange the words given below in a meaningful sequence.
1. Protect 2. Pressure 3. Relief
4. Rain 5. Flood

A. 2, 4, 3, 1,5
B. 2, 4, 5, 1,3
C. 2, 5, 4, 1,3
D. 3, 2, 4, 5,1
The correct answer is option [B]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
64
Education is

P : of the proper sense of responsibilities

Q : the first need

R : in a citizen

S : for the development

The proper sequence should be _____.

A. SQPR
B. QSRP
C. QSPR
D. PQRS
The correct answer is option [C]

The sample below shows two words which have a certain relationship. From the list of options, select the pair which does not have the same relationship.
65
FILTER : WATER

A. curtail : activity
B. edit : book
C. expunge : text
D. censor : play
The correct answer is option [D]
You cannot censor a play but you can censor a movie.

66
Of the teams competing in the world archery championships, twenty percent are from Europe. Half as many are from the United States and one twentieth are from Africa. What fraction of teams are from neither Europe, the US or Africa?

A. 13/20
B. 15/20
C. 20/13
D.17/20
The correct answer is option [A]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.

67
To smell a rat is to_____.

A. see signs of plague epidemic
B. percieve the odour of a dead rat
C. be in a bad mood
D. suspect foul dealings
The correct answer is option [D]

68
Day,_____, month, year.

A. century
B. decade
C. hour
D. fortnight
E. minute
The correct answer is option [D]

Here time periods are arranged according to duration from short periods to long ones. A fortnight is fifteen days and therefore it naturally comes between day and month. Decade (10 years) and century (100 years) are too long whereas hour is too short

Some proverbs/idioms are given together with their meanings. Choose the correct meaning of the proverb/idiom.
69
To cry wolf is to_____.

A. listen eagerly
B. give false alarm
C. turn pale
D. keep off starvation
The correct answer is option [B]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
69
To cry wolf is to_____.

A. listen eagerly
B. give false alarm
C. turn pale
D. keep off starvation
The correct answer is option [B]

70
Which of the following is least like the others?

A. Poem
B. Novel
C. Painting
D. Statue
E. Flower
The correct answer is option [E]

Flower is the only one not made by man.

71
Point, segment,_____, line.

A. dot
B. ray
C. dash
D. arc
E. none of the above
The correct answer is option [B]

Here geometrical terms are arranged according to length. A ray lies between a segment and line. A ray extends indefinitely in one direction whereas a line extends indefinitely in both directions. A segment has a definite length. Here, dot, dash and arc are clearly irrelevant options.

72
Which is the odd one out?

A. Brook
B. Pond
C. River
D. Stream
E. Ocean
The correct answer is option [B]

Pond is the odd one out because it is still water. Brook, river, ocean and stream refer to flowing water.

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
73
Arrange the words given below in a meaningful sequence.

1. Word 2. Paragrap 3. Sentence
4. Letters 5. Phrase

A. 4, 1, 5, 2, 3

B. 4, 1, 3, 5, 2
C. 4, 2, 5, 1, 3
D. 4, 1, 5, 3, 2
The correct answer is option [D]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
74
ARMY : LOGISTICS

A. business : strategy
B. war : logic
C. soldier : students
D. team : individual
The correct answer is option [A]

75
During the recent Applause cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.
Which country does the code 100001111110011110100 represent?

A. Philippines
B. Portugal
C. Poland
D. Puerto rico
E. None of the above
The correct answer is option [C]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
76
DISTANCE : MILE

A. weight : scale
B. liquid : litre
C. bushel : corn
D. fame : television
The correct answer is option [B]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
77
Since the beginning of history

P : have managed to catch

Q : the Eskimos and Red Indians

R : by a very difficulty method

S : a few specimens of this aquatic animal

The proper sequence should be _____.

A. QRPS

B. SQPR
C. SQRP
D. QPSR
The correct answer is option [D]

78
During the recent Dexco cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.
Which country does the code 10100110011011111110 represent

A. Tanzania
B. Taiwan
C. Thailand
D. Togo
E. None of the above
The correct answer is option [B]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
79
PORK : PIG

A. rooster : chicken
B. steer : beef
C. lobster : crustacean
D. mutton : sheep

The correct answer is option [D]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.

80
To end up in smoke is to _____.

A. make to completely understand

B. ruin oneself
C. excite great applause
D. inhale cigarette smoke
The correct answer is option [B]

81
Which is the odd one in the option?

A. Air force
B. Navy
C. Boys Scout
D. Police
E. Army
The correct answer is option [C]

Each question consist of two words which have a certain relationship to each other followed by four pairs ofrelated words, Select the pair which has the same relationship.

82
MUNDANE : SPIRITUAL

A. common : ghostly
B. routine : novel
C. secular : clerical
D. worldly : unworldly
The correct answer is option [D]

83
The cost of manufacturing tractors in Korea is twenty percent less than the cost of manufacturing tractors in Germany. Even after transportation fees and import taxes are added, it is still cheaper to import tractors from Korea to Germany than to produce tractors in Germany.
Which of the following assertions is best supported by this information?

A.Labor costs in Korea are twenty percent below those in Germany.
B. Importing tractors into Germany will eliminate twenty percent of the manufacturing jobs in Germany.

C.The costs of transporting a tractor from Korea to Germany is more than twenty percent of the cost of manufacturing the tractor in Korea.
D.The import taxes on a tractor imported from Korea to Germany is less than twenty percent of the cost of manufacturing the tractor in Germany.
The correct answer is option [D]

84
Which is the odd one out?

A. Pool
B. Lake
C. Water
D. Pond
E. None of the above
The correct answer is option [C]

Water is the odd one out because pool, pond and lake are bodies of water typically surrounded by land.

85
Which of the following word is the opposite of "Probity"?

A. Turpitude
B. Veracious
C. Devotion
D. Dignity
E. Allegiance
The correct answer is option [A]

85
Which of the following word is the opposite of "Probity"?

A. Turpitude
B. Veracious
C. Devotion
D. Dignity
E. Allegiance
The correct answer is option [A]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.

86
To catch a tarter is to _____.

A.trap a wanted criminal with great difficulty
B. catch a dangerous person
C. meet with disaster
D.deal with a person who is more than one's match
The correct answer is option [B]

87
Which word is the odd one out?

First, Second, Third, Forth, Fifth, Sixth, Seventh, Eighth

A. Second
B. Forth
C. Sixth
D. Eighth
E. Seventh
The correct answer is option [B]

'Forth' is the odd one because it is incorrectly spelt. It ought to be 'Fourth'.

88
Bat, sheep, _____, elephant.

A. squirrel
B. rat
C. blue whale
D. porcupine
E. horse
The correct answer is option [E]

Here mammals are arranged according to size from small to big. A horse is bigger than a sheep and smaller than an elephant. A squirrel and a rat are too small and a blue whale is too big. In fact, the blue whale is the largest mammal.

89
Which of the following does not belong with the others? (Hint: Think of how they are used).

A. Knife
B. Screw
C. Nail
D. Wrench
E. Scythe
The correct answer is option [D]
The knife and scythe are used to cut, and the nail and screw are used to pierce; the wrench is the only item that is not used to cut or pierce.

90
Pedro goes either hunting or fishing every day. If it is snowing & windy then Pedro goes hunting. If it is sunny and not windy then Pedro goes fishing. Sometimes it can be snowing and sunny.

QUESTION: Which of the following statements must be true:

A. If it is not sunny and it is snowing then Pedro goes hunting.
B. If it is windy and Pedro does not go hunting then it is not snowing.
C. If it is windy and not sunny then Pedro goes hunting.
D. If it is windy and sunny then Pedro goes hunting.

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

91
Arrange the words given below in a meaningful sequence.
1. Family 2. Community 3. Member 4. Locality 5. Country

A. 3, 1, 2, 4, 5
B. 3, 1, 2, 5, 4
C. 3, 1, 4, 2, 5
D. 3, 1, 4, 5, 2
The correct answer is option [A]

92
During the recent Tijays cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.
Which country does the code 110100101101111101 represent?

A. Finland
B. France
C. Florida
D. Fox Islands
E. None of the above
The correct answer is option [B]

93
Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
A man of straw is _____.

A. a man of no substance
B. a very active person
C. a worthy fellow

D. an unreasonable person
The correct answer is option [A]

94
Inyang's dog timmy is 40years old now. In the next two years, it will be_____years old.

A. 6
B. 42
C. 80
D. 60
E. none of the above
The correct answer is option [D]
A year is equivalent to 10 years of a dog's life; thus, in the next two years, timmy will be 40 + 20years old.

95
Some proverbs/idioms are given below with their meanings. Choose the correct meaning of the proverb/idiom.
To make a clean breast of is to_____.

A.gain prominence
B. praise oneself
C. confess without reserve
D.destroy before it blooms The correct answer is option [C]

96
Which of the following word can be added to the end of LIFT and the beginning of MAN to form two other English words?

A. CLOSE
B. BANK
C. GATE
D. PLAY
E. DOWN
The correct answer is option [C]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
97
Arrange the words given below in a meaningful sequence.
1. Wall 2. Clan 3. House 4. Room 5. Bricks

A. 5, 2, 1, 4, 3

B. 2, 5, 4, 1, 3
C. 2, 5, 1, 4, 3
D. 1, 2, 3, 4,5
The correct answer is option [C]

98
Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
To be above board is to_____.

A.have a great height
B. be honest in all business dealings
C. be free of any debt
D.be outstandingly beautiful
The correct answer is option [B]

99
Which is the odd one out?

A. Pencil
B. Crayon
C. Paper
D. Pen
E. Marker
The correct answer is option [C]

Paper is the odd one out because it is the medium on which we write or draw. Crayon, pen and pencil are devices with which we write or draw.

100
In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

When it began to rain suddenly on the first of January

P : to celebrate the new year
Q : we ran for shelter

R : to the neighbouring house
S : where many people had gathered
The proper sequence should be_____.

A. QRPS
B. PSQR
C. PRSQ
D. QRSP
The correct answer is option [D]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

101
DIVA : OPERA

A. producer : theatre
B. director : drama
C. conductor : bus
D. thespian : play
The correct answer is option [D]

102
In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

In the darkness

P : the long, narrow beard
Q : was clearly visible with
R : the tall stooping figure of the doctor
S : and the aquiline nose

The proper sequence should be_____.

A. RQPS
B. PSQR
C. RSQP
D. QPRS
The correct answer is option [A]

103
Which word of four letters can be added to the front of the following words to create other English words?

CARD, BOX, CODE, BAG, HASTE

A. BACK
B. PALM
C. CLAP
D. POST
E. TOSS
The correct answer is option [D]

POSTcard, POSTbox, POSTcode, POSTbag, POSThaste

104 Belema, Furo, Ibimina, Ibisiki, and Tekena were the top five finishers in the national 700-mile race. They drove yellow, orange, green, red and blue cars but not necessarily in that order. Neither Ibisiki nor Tekena drove the green car. Ibisiki finished faster than Belema and Tekena. The blue car finished earlier than Tekena 's and Ibimina 's car. The yellow car finished faster than the green car and the orange car. Belema 's and Tekena 's car finished ahead of the orange car. Furo 's car finished before the blue and the yellow car.
Who drove the red car and what place did he finish?

A. Furo: 1st
B. Ibisiki: 2nd
C. Tekena: 3rd
D. Belema: 4th
The correct answer is option [A]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

105
It is easier
P : to venture into space
Q : for men
R : beneath their feet
S : than to explore

The proper sequence should be_____.

A. QRPS
B. QPSR
C. PSRQ
D. PQSR
The correct answer is option [B]

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). You have to take the given two statements to be true even if they seem to beat variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer:
(A) If only (1) conclusion follows
(B) If only (2) conclusion follows
(C) If either (1) or (2) follows
(D) If both (1) and (2) follow.

106

Statements: Some actors are singers. All the singers are dancers.
Conclusions:
Some actors are dancers.
No singer is an actor.

A. Only (1) conclusion follows
B. Only (2) conclusion follows
C. Either (1) or (2) follows
D. Both (1) and (2) follow.
The correct answer is option [A]

107

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

Arrange the words given below in a meaningful sequence.
1. Probation 2. Interview 3. Selection 4. Appointment 5. Advertisemet 6. Application

A. 5, 6, 3, 2, 4,1
B. 5, 6, 4, 2, 3,1
C. 5, 6, 2, 3, 4, 1
D. 6, 5, 4, 2, 3,1
The correct answer is option [C]

108
Pear is to Apple as Potato is to_____.

A. banana
B. radish
C. strawberry
D. peach
E. lettuce
The correct answer is option [B]

Both grow under ground.

109
In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

Then
P : it struck me
Q: of course
R : suitable it was
S: how eminently

The proper sequence should be_____.

A. SPQR

B. QSRP
C. PSRQ
D. QPSR
The correct answer is option [C]

110
Which is the odd word in the option?

A. Aim
B. Gain
C. Reason
D. Purpose
E. Motive
The correct answer is option [B]

111
Which vowel comes midway between J and T?

A. A
B. E
C. I
D. O
E. U
The correct answer is option [D]

JKLMN - O - PQRST

112
What is as light as a feather that even the strongest man cannot hold for more than 4 minutes?

A. Foam
B. His breath
C. Fire
D. Tissue paper
E. None of the above
The correct answer is option [B]

113
During the recent Sylbil cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.
Which country does the code 11010111011010011 represent?

A. Zambia

B. Zimbabwe
C. Zion
D. Zaire
E. None of the above
The correct answer is option [A]

114
Fold is to Tear as Alter is to_____.

A. Effrontery
B. Reprobate
C. Assess
D. Eradicate
E. Verve
The correct answer is option [D]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
115
It is easy to excuse
P : but it is hard
Q : in a boy of fourteen
R : the mischief of early childhood
S : to tolerate even unavoidable faults

The proper sequence should be_____.

A. RPQS
B. QRSP
C. QRPS
D. RPSQ
The correct answer is option [D]

116
Which is the odd one out?

A. Carbon
B. Aluminium
C. Copper
D. Iron
E. Zinc
The correct answer is option [A]

Carbon is the odd one out because it is not a   metal. Aluminum, copper, Zinc and Iron are metals.

A. Ibisiki
B. Tekena
C. Ibimina
D. Belema
The correct answer is option [D]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
118
If you need help

P : promptly and politely
Q : ask for attendants
R : to help our customers
S : who have instructions

The proper sequence should be_____.

A. SQPR
B. QPSR
C. QSRP
D. SQRP
The correct answer is option [C]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the proper sequence.
119
They felt safer

P : to watch the mountain
Q : of more than five miles
R : as they settled down
S : from a distance

The proper sequence should be_____.

A. RPSQ

B. RSQP
C. PQSR
D. PRSQ
The correct answer is option [A]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

120
Of many artists

P : those who impressed me the most
Q : I was a child
R : but those with unique personalities off stage
S : were not always the successful ones

The proper sequence should be_____.

A. SRQP
B. QRSP
C. RSPQ
D. QPSR
The correct answer is option [D]

121
Amble,_____, jog, run.

A. sprint
B. walk
C. crawl
D. creep
E. none of the above
The correct answer is option [B]

Here actions are arranged according to speed from slow to fast. Walk is faster than amble and slower than jog. Crawl and creep are too slow whereas sprint is too fast.

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.

122
Arrange the words given below in a meaningful sequence.
1. Elephant 2. Cat 3. Mosquito
4. Tiger 5. Whale

A. 5, 3, 1, 2, 4

B. 3, 2, 4, 1, 5
C. 1, 3, 5, 4, 2
D. 2, 5, 1, 4, 3
The correct answer is option [B]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
123
INDIGENT : WEALTHY

A. gauche : graceful
B. native : affluent
C. scholarly : erudite
D. angry : rich
The correct answer is option [A]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
124
The national unity of a free people

P : to make it impracticable
Q : for there to be an arbitrary administration
R : depends upon a sufficiently even balance of political power
S : against a revolutionary opposition that is irreconcilably opposed to it

The proper sequence should be_____.

A. QRPS
B. QRSP
C. RPQS
D. RSPQ
The correct answer is option [D]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
125
the majestic mahogany table

P : belongs to an old prince

Q : which has one leg missing

R : who is no impoverished

S : but not without some pride

The proper sequence should be_____.

A. PQSR
B. QRSP
C. PRSQ
D. QPRS
The correct answer is option [D]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
126
To have an axe to grind is_____.

A. a private end to serve
B. to fail to arouse interest
C. to have no result
D. to work for both sides
The correct answer is option [A]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
127
Arrange the words given below in a meaningful sequence.
1. Income 2. Status 3. Education
4. Well-being 5. Job

A. 3, 1, 5, 2, 4
B. 1, 3, 2, 5, 4
C. 1, 2, 5, 3, 4
D. 3, 5, 1, 2, 4
The correct answer is option [D]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
128
Arrange the words given below in a meaningful sequence.
1. Leaf 2. Fruit 3. Stem 4. Root 5. Flower

A. 3, 4, 5, 1, 2
B. 4, 3, 1, 5, 2
C. 4, 1, 3, 5, 2
D. 4, 3, 1, 2, 5
The correct answer is option [B]

129
Bmrng is to Rtrn as Qcksnd is to_____.

A. Bnk
B. Jmp
C. Lck

D. Snk
E. Bttl
The correct answer is option [D]

The analogy is "Boomerang is to Return as Quicksand is to Sink", but with all of the vowels removed. A boomerang is well known as an object that returns (or is supposed to) when thrown, and quicksand is something that things can sink into.

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
130
To pick holes is to_____.

A. find some reason to quarrel
B. destroy something
C. criticise someone
D. cut some part of an item The correct answer is option [C]

131
Which is the odd one out?

A. Paper
B. Tree
C. Man
D. Insect
E. Reptile
The correct answer is option [A]

Paper is the odd one out because it is the only   non-living thing. Tree, mouse and man are living things.

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
132
To play second fiddle is to_____.

A. be happy, cheerful and healthy
B. reduce importance of one's senior
C. support the role and view of another person
D. do back seat driving
The correct answer is option [C]

133
Which of the following word can be added to the end of GRASS and the beginning of SCAPE to form two other English words?

A. GREEN
B. EXTRA

C. LAND
D. FRESH
E. CARPET
The correct answer is option [C]

134
Which is the odd one out?

A. Cheese
B. Yoghurt
C. Butter
D. Margarine
E. Milk
The correct answer is option [E]

Milk is the odd one out because butter, cheese, margarine and yoghurt are products made from milk.

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

135
We have to

P : as we see it

Q : speak the truth

R : there is falsehood and weakness

S : even if all around us

The proper sequence should be_____.

A. RQSP
B. QRPS
C. RSQP
D. QPSR
The correct answer is option [D]

136
A group or flock of crows goes by another name. What is it?

A. Fortune
B. Cluster
C. Murder
D. Cacophony
E. Bluster
The correct answer is option [B]

A. personification
B. metaphor
C. onomatopoeia
D. simile
E. none of the above
The correct answer is option [A]
'Beauty' is given the attribute of a living thing 'die'. It is only living things that die.

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.

138
AFTER : BEFORE

A. first : second
B. present : past
C. successor : predecessor
D. contemporary : historic
The correct answer is option [C]

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

139
The grocer

P : did not listen to the protests of customer
Q : who was in the habit of weighing less
R : whom he had cheated
S : with great audacity

The proper sequence should be_____.

A. PRSQ
B. QSPR
C. QPRS
D. PQSR
The correct answer is option [C]

140

Belema, Furo, Ibimina, Ibisiki, and Tekena were the top five finishers in the national 700-mile race. They drove yellow, orange, green, red and blue cars but not necessarily in that order. Neither Ibisiki nor Tekena drove the green car. Ibisiki finished faster than Belema and Tekena. The blue car finished earlier than Tekena 's and Ibimina 's car. The yellow car finished faster than the green car and the orange car. Belema 's and Tekena 's car finished ahead of the orange car. Furo 's car finished before the blue and the yellow car.

Who drove the orange car?

A. Ibisiki
B. Belema
C. Ibimina
D. Furo
The correct answer is option [C]

141
Which is the odd one out?

A. Enormous
B. Mighty
C. Great
D. Tiny
E. Huge
The correct answer is option [D]

142
Building, town,_____, country.

A. planet
B. continet
C. apartment
D. room
E. state
The correct answer is option [E]

Here places are arranged according to size from small to big. A state is bigger than a town and smaller than a country. Continent and planet are too big whereas apartment is too small.

143
During the recent Silverscreen cipher convention, a binary code contest took place. The contest consisted of a binary code transmission where the spaces between the letters were missing and there was no punctuation. Each letter of the alphabet was translated into its binary equivalent based on its position in the alphabet: a=1, b=10, c=11, d=100, e=101, f=110, g=111, h=1000, i=1001, j=1010, k=1011, l=1100, m=1101, n=1110, o=1111, p=10000, q=10001, r=10010, s=10011, t=10100, u=10101, v=10110, w=10111, x=11000, y=11001, z=11010.

Which country does the code 1101111111001011111111111111 represent?

A. Malaysia
B. Mali
C. Mauritania
D. Morocco
E. Mauritius
The correct answer is option [D]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
144
Arrange the words given below in a meaningful sequence.
1. Tree 2. See 3. Flowers
4. Fruit 5. Plant

A. 5, 2, 1, 3,4
B. 2, 5, 1, 4,3
C. 2, 5, 1, 3,4
D. 2, 5, 3, 1,4
The correct answer is option [C]

145
Which is the odd word in the option?

A. Right
B. True
C. Correct
D. Accurate
E. Left
The correct answer is option [E]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
146
Arrange the words given below in a meaningful sequence.
1. Poverty 2. Population 3. Death
4. Unemployment 5. Disease

A. 2, 3, 4, 5,1
B. 3, 4, 2, 5,1
C. 2, 4, 1, 5,3
D. 1, 2, 3, 4,5
The correct answer is option [C]

147
Choose the option that does not belong to the group.

A. Town
B. Street
C. Path

D. Road
E. Lane
The correct answer is option [A]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
148
Arrange the words given below in a meaningful sequence.
1. Rainbow 2. Rain 3. Sun
4. Happy 5. Child

A. 4, 2, 3, 5, 1
B. 2, 3, 1, 5, 4
C. 4, 5, 1, 2, 3
D. 2, 1, 4, 5, 3
The correct answer is option [B]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
148
Arrange the words given below in a meaningful sequence.
1. Rainbow 2. Rain 3. Sun
4. Happy 5. Child

A. 4, 2, 3, 5, 1
B. 2, 3, 1, 5, 4
C. 4, 5, 1, 2, 3
D. 2, 1, 4, 5, 3
The correct answer is option [B]

Each question consist of two words which have a certain relationship to each other followed by four pairs ofrelated words, Select the pair which has the same relationship.
149
PAIN : SEDATIVE

A. comfort : stimulant
B. grief : consolation
C. trance : narcotic
D. ache : extraction
The correct answer is option [B]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
150
Arrange the words given below in a meaningful sequence.
1. Nation 2. Village 3. City 4. District 5. State

A. 2, 3, 4, 5, 1
B. 2, 3, 4, 1, 5

C. 1, 3, 5, 4, 2

D. 1, 2, 3, 4, 5
The correct answer is option [A]

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of the proverb/idiom.
151
To put one's hand to plough is to_____.

A. take up a difficult task
B. take to agricultural farming
C. get entangled into unnecessary things
D. take interest in technical work
The correct answer is option [A]

152
Which word is odd in the option?

A. Aeroplane
B. Canoe
C. Train
D. Car
E. Passenger
The correct answer is option [E]

153
FICTITIOUS is to PSEUDONYM as BACKWARD is to _____.

A. ANTONYM
B. PALINDROME
C. NAMESAKE
D. EPONYM
E. ANANYM
The correct answer is option [E]

A pseudonym is a fictitious name, and an ananym is a backward spelling of a name.

In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.
156
I read an advertisement that said

P : posh, air-conditioned

Q : gentleman of taste

R : are available for

S : fully furnished rooms

The proper sequence should be_____.

A. PQRS
B. PSRQ
C. PSQR
D. SRPQ
The correct answer is option [B]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
157
SYMPHONY : COMPOSER

A. Leonardo : music
B. colours : pallet
C. art : appreciation
D. fresco : painter
The correct answer is option [D]

158
Bicycle is to Car as Man is to_____.

A. Ostrich
B. Centipede
C. Elf
D. Dog
E. Woman
The correct answer is option [D]

Just as a bicycle has 2 wheels and a car has 4, a man has 2 legs and a dog has 4.

159
Which five letter word can be placed in front of the following words to make a new word?
COUNT, SHOT, THIRSTY

A. CHECK
B. BOARD
C. CHESS
D. CHEAP
E. BLOOD
The correct answer is option [E]

160
Captain is to Private as Master is to_____.

A. Corporal
B. Prisoner
C. Commander
D. King
E. Slave
The correct answer is option [E]

Each question consist of two words which have a certain relationship to each other followed by four pairs of related words, Select the pair which has the same relationship.
161
GRAIN : SALT

A. shard : pottery
B. shred : wood
C. blades : grass
D. chip : glass
The correct answer is option [D]

In each of the following questions, arrange the given words in a meaningful sequence and thus find the correct answer from alternatives.
162
Arrange the words given below in a meaningful sequence.
1. Police 2. Punishment 3. Crime
4. Judge 5. Judgement

A. 3, 1, 2, 4,5
B. 1, 2, 4, 3,5
C. 5, 4, 3, 2,1
D. 3, 1, 4, 5,2
The correct answer is option [D]
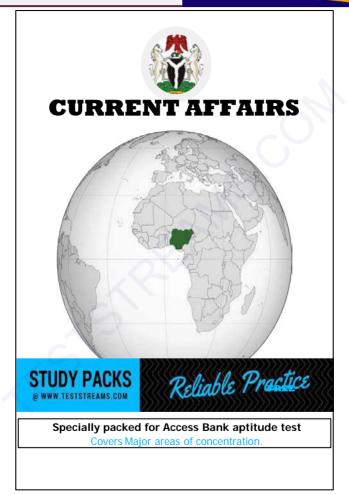
163
Which of these is the odd one out?

A. Cat
B. Dog
C. Hamster
D. Rabbit
E. Elk
The correct answer is option [E]

The elk is the only option that is not a pet. It is a large gregarious deer.

164
Which of the sentences given below means the same as the proverb: "Dont count your chickens until they are hatched"?

A. Some eggs have double yolks, so you can't really count eggs and chicken

CURRENT AFFAIRS

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Make sure you have practiced every questions that
you see in the study note, both verbal and
quantitative reasoning.

Good luck

- *Note that only a few questions is usually drawn from this section.*
- **In addition , you should learn the Nigerian States and Capital, Just in case**

----

1. On 20th January, 2013, Senator Barrack Obama was sworn in as the president of United States of America for the second time in office.
2. Senator Barrack Obama is the first African-American president. He became present in January, 2009.
3. On 7th January 2013, John Dramain Mahama took the oath as the fourth elected president and commander-in-chief of the fourth Republic of Ghana. He won the 7th Dec, 2012 election.
4. The oldest capital city in the world is Damascus. It has been inhabited since 2500BC.
5. Japan has the second of strongest economy in the world.
6. United state of America has the largest National debt of $129 trillion as at 1996 but today has the strongest economy in the world.
7. In 1779, USA got her independence from Britain.
8. On 10th October 2002, Nigeria rejected the ruling of the International Court of Justice (ICJ) over the ownership of Bakassi. The rulings which favour the Cameroons.
9. The shortest man in the world is Calvin Philips of Bridgewater, Massachusetts, USA measuring 26 inches.
10. The tallest man in the world is Mohammed Alam Channa from Pakistan, measuring 8ft and 3in tall.

11.   The white house which is the official residence of USA president was built in 1814.

12.   Abraham Lincoln was born on February 16th 1809 and was   elected president in 1861.

13. The first unmarried president in America was James Buchan

14.   The largest church in the world is Redeem Christian Church of God along km 46 Lagos-Ibadan Expressway, in Mowe, Ogun state Nigeria and is 2km by length.

15. The largest mosque in the world is Shah Faisal Mosque, Pakistan. It   can accommodate 300,000 worshipers.

16.   The longest river in the world is River Mississippi.

17.   Vatican city is the smallest independent country in the world.

18. Australia is the smallest continent in the world while Asia is the   largest continent

19.   The Organization of African Unity (OAU) was formed on 25th May   1965 and has its headquarters in Addis Ababa Ethiopia.

20.   The sea route to India was discovered by Vasco Dagama in 1498.

21.   The largest ocean in the world is the Pacific ocean which is   about 64,000,000 sq miles in area.

22. Queen Elizabeth II of England is the head of common wealth. She was born in 1926 and coronated on 2nd June 1952.

23. The United Nations (UN) started on 1947 and the current secretary general is Mr. Banki-Moon

24.   The NIG COMSAT I was launched on 13th May 2007 in China.

25.   Gulf war was between 19th January 1991 to 2nd March 1991

26.   The first world war started in 1914 and ended in 1918.

27. The second world war(Hitler war) started in 1939 and ended in 1945.

28.   The highest building in the world is Ears Tower, Chicago, USA.

29. The highest mountain in the world above the sea level is Mt. Everest   in the Himalayas. It is 8.349mhigh.

30.   Economic Community of West African States (ECOWAS) was   established in 1975. The headquarters is in Abuja and the first chairman was Gen. Yakubu Gowon.

31.   The highest mountain in Africa is Mt. Kilimanjaro in Tanzania.

32. The African Union (AU) was founded in 22nd May 2002, headed by Joaquin Chusago and Amera Essay as secretary.

33.   Liberia is the first African country to gain independence.

34.   Ethiopia is the only African country not colonized.

35. On 11th September 2001, terrorist attacked the World Trade Centre building in USA.

36. Amerigo Vespucci discovered America in 1494. America was derived from Amerigo Vespucci.

37. The largest university in the world is National Autonoma in Mexico. It has an average population of 237,000 students.

38.   Venus is the hottest planet maintaining a surface temperature of $46^{0}C$.

39.   The current inspector general of police is Mr. Solomon Arase.

40. The highest rank in the army is the Field Marshal, while that of the navy is Admiral of the state and that of the Airforce is Marshal of Airforce.

31.   The highest rank in the police is the inspector general.

32.   The military coup in Nigeria took place   in 1st January, 1966 by Major Kaduna Nzeogwu.

43.   The current chief of the army staff is Gen. Tukur Burutai

44. The current managing director of the NNPC is Mr. Ibekachikwu?

45. The current speaker of the house of representative is Alhaji Yakubu Dogara?

46. The current president of the senate is Alhaji Abubakar Saraki?

47. The first senate president in Nigeria is Akwaeke Nwazor Orizu?

48. The first speaker of the National Assembly is Edwin Umezeoke.

49. The current secretary to the federal government (SFG) is Engr. Babbachir lawal ?

50. The first female chief justice of Nigeria is Justice Aloma Mariam Mukhtar.

51. The first executive president of Nigeria is Alh. Shehu Shagari (1st Oct. 1976-31st Dec.1983)

52. The first military head of state was Late Thomas Aguiyi Ironsi (Jan 1966-Jun 1966)

53. The current managing director of NDDC is Ibinabo Sementari (Acting chairman)

54. The current chairman of EFCC is Ibrahim Magu?

55. The current managing director of NAFDAC is? *Find Out Recent Info*

56. The first senior advocate of Nigeria (SAN) was Rotimi Williams

57. The first woman to drive a vehicle in Nigeria was Funmilayo Kuti.

58. The first chattered accountant general in Nigeria was Akintola Williams

59. The first female novelist in Nigeria was Mrs. Flora Nwamkpa.

60. The first Nigerian Olympic gold medalist was Chioma Ajunwa (USA'94)

61. The first woman governor in Nigeria was Chief Mrs. Virginia Etiaba of Anambra state.

62. The first female vice-chancellor was Prof. Grace Allele Williams

63. The first female speaker of the house of representative was Mrs. Patricia Etteh

64. The naira note was introduced in 1973 to replace the pound.

65. Fifty naira was introduced in 27th August, 1991

66. The N100 note was introduced in November, 1999.

67. The N200 note was introduced in November, 2000.

68. The N500 note was introduced in April, 2001.

69. The N1000 note was introduced in 12st October, 2005.

70. On February 28th 2007, N50, N20, N10, N5, N1, 50k were issued with a new design while a new denomination N2 coin was introduced.

71. N20 is the first currency note to bear the portrait of a Nigerian citizen and that is Gen. Murtala Mohammed. It was introduced in 11th February, 1977.

72. On 15th December, 2012, navy helicopter crashed in Okoroba, Bayelsa state claimed the lives of Governor Ibrahim Yakowa of Kaduna state, General Andrew Owoye Azai (former national security adviser NSA and four others).

73. The first civilian transition took place in Nigeria on 29th May, 2007 from Chief Olusegun Obasanjo to Alh. Umar Musa Yar'adua.

74. There are 450 languages in Nigeria with about 374 cultures

75. There are 774 local government areas in Nigeria.

76. There are 109 senators in Nigeria.

77. There are 360 members in the house of representatives.

78. Ikeja cantonment explosion took place in 2002.

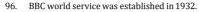79. On 26th November, 2011, Dim Chukwuemeka Odumegwu Ojukwu died at the age of 78.

80. Nigerian first lady Mrs Stella Obasanjo died in Spanish hospital on 23rd October, 2005.

81. Pastor Ayo Oritsejafor is the current president of the Christian Association of Nigeria (CAN).

82. The first eclipse of the sun by the moon occurred in Nigeria in 1947.

83. The second eclipse of the sun by the moon occurred in Nigeria in March 9th, 2006.

84. The Nigerian Police Force (NPF) went on strike action for the first time in the history of Nigeria on 1st February 2002 during Musiliu Smith Tenure.

85. The first oil well was dug in a town called Oloibiri in Rivers state in the year 1958.

86. Prof. Dora Akunyili is the female Nigerian with highest awards of over 200.

87. The first governor of central bank of Nigeria was Dr. Clement Isong.

88. The former chairman of National Electoral Commission that ever conducted free and fair election in the history of Nigeria was Prof. Humphrey Nwosu. (He conducted June 12 election that was annulled by Gen. Ibrahim Babngida)

89. The first US president to be impeached was Mr. Andrew Johnson.

90. The first airplane landed in Nigeria in Kano in 1975.

91. Nigeria changed from right to left hand drive in 2nd April, 1972.

92. The Nigerian civil war started on 6th July 1967 and ended 15th January, 1970.

93. Aba women riot took place in 1929.

94. The first female pilot in Nigeria was Miss Chinyere Onyemaucheya

95. Herbert Macaulay was the first to own a car in Nigeria.

96. BBC world service was established in 1932.

97. The first Nigerian inspector general of police was Louis Edet.

98. The first university graduate inspector general of police was TafaBalogun.

99. AIDS was discovered first in USA in 18th July,1981.

100. The Nigerian national flag was designed by Mr.Michael Taiwo Akinkumi

101. On February 10th 2013, the super eagles of Nigeria won the African cup of nations for the third time in history. Nigeria defeated Burkina Faso by a lone goal in South Africa.

102. The motto of Nigeria is unity, faith, peace and progress.

103. The Nigeria's first university graduate president was Alh. Umaru Musa Yar'adua.

104. The GSM intercellular telecommunication was introducedin Nigeria in July, 2001

105. On Sunday, 29th October, 2006, the ADC boeing 737 aircraft crashed few minutes after taking off from Abuja airport with prominent traditional ruler Sultan Muhammed Maccido and his son Senator Maccido.

106. On 10th December, 2005, the Sosoliso plane crashed in Port-Harcourt killing 106 passengers and among them was Pst.Mrs. Bimbo Odukoya.

107. On 22nd October, 2005, the Bellview Airline Boeing 737 crashed at Lisa Village in Ifo local government in Ogun state, killing 117 people on board.

108. The president of the Nigerian Labour Congress (NLC) is? *Find Out Recent Info*.

109. Mary Slessor stopped the killing of twins in Calabar.

110. The widest river in Africa is River Congo.

111. The Republican constitution of 1963 erased the last traces of colonialism in Nigeria.

112. The longest river in Africa is River Nile.

113. The first woman to head paramilitary in Nigeria is Lady Uzoamaka Nwizu (former controller of Nigerian Immigration).

114. The first American elected president was George Washington.

115. Mauritania has withdrawn its membership from ECOWAS.

116. The largest lake in Africa is Lake Victoria.

117. The green colour of the Nigerian flag represents agriculture.

118. The current governor of central bank is Sanusi Lamido Sanusi

119. Three banks acquired by the Asset Management Corporation of Nigeria (AMCON) are Keystone bank limited (formerly bank PHB), Mainstreet bank limited (formerly Afribank) and Enterprise bank limited (formerly Spring Bank).

120. The seven continents of the earth are: Africa, North America, South America, Australia, Asia, Antarctica and Europe.

SOME TRADITIONAL TITLES IN NIGERIA

121. Owa Obokun of Ijesha land

122. Emir of Kano

123. Obi of Onistha

124. Alake of Egba land

125. Ooni of Ife

126. Sultan of Sokoto
127. Alaafin of Oyo
128. Awujale of Ijebu land
129. Attah of Igala land
130. Emir of Zauzau
131. Emir of Ilorin
132. Bong Gwong of Jos
133. Emir of Bauchi
134. Deji of Akure
135. Olowo of Owo
136. EtsuNupe of Nupeland
137. Ewi of Ado Ekiti
138. Lamido of Adamawa
139. Shehu of Borno
140. Oluibadan of Ibadan
141. Oba of Lagos
142. Oba of Benin
143. Tor Tiv of Tiv land

COMMON ABBREVIATIONS AND THEIR MEANINGS

144. EFCC - Economic and Financial Crimes Commission
145. FBI – Federal Bureau of Investigation
146. SEEDS – State Economics Empowerment and Development Strategies
147. SARS – Severe Acute Respiratory Syndrome
148. ATM – Automatic Teller Machine

149. NCE – National Certificate of Education
150. SSS – State security service
151. CID – Criminal Investigation Department
152. BON – Broadcasting Organization of Nigeria
153. NOA – National Orientation Agency
154. FESTAC – Festival of Arts and Culture
155. RTEAN – Road Transport Employer's Association of Nigeria.
156. EPI – Expanded Programme on Immunization
157. NAN – News Agency of Nigeria
158. NIGCOMSAT – Nigeria Communication Satellite
159. CAC – Corporate Affairs Commission
160. PPPRA – Petroleum Product Pricing Regulatory Agency
161. NACA – National Action Committee on AIDS
162. FRCN – Federal Radio Corporation of Nigeria
163. UBE – Universal basic Education
164. VAT – Value Added Tax
165. GDP – Gross Domestic Product
166. PAP – Poverty Alleviation Programme
167. GCFR – Grand Commander of the Federal Republic
168. GCON – Grand Commander of the Order of the Niger
169. OFR – Officer of the Federal Republic
170. NAPEP – National Poverty Eradication Programme
171. NDE – National Directorate of Employment
172. UNESCO – United Nations Education, Scientific and Cultural Organization
173. Nigeria has won the African cup of nations in 1980, 1994 and

2013.

AFRICAN FOOTBALLER OF THE YEAR AWARD WINNERS AND YEARS (2000-2012)

174. 2000 – Patrick Mboma
175. 2001 – El haji Diouf
176. 2002 – El Haji Diouf
177. 2003 – Samuel Eto'o
178. 2004 – Samuel Eto'o
179. 2005 – Samule Eto'o
180. 2006 – Didier Drogba
181. 2007 – Kanoute Frederick
182. 2008 – Emmanuel Adebayo
183. 2009 – Didier Drogba
184. 2010 – Samuel Eto'o
185. 2011 – Yahaya Toure
186. 2012 – Yahaya Toure
187. 2013 – Yahaya Toure
188. 2014 – Yahaya Toure
189.

FIFA WORLD PLAYERS FROM 2005-2013

190. 2005 – Ronaldinho
191. 2006 – Fabio Cannavaro
192. 2007 – Ricardo Izecson (Kaka)
193. 2008 – Cristiano Ronaldo
194. 2009 – Lionel Messi
195. 2010 – Lionel Messi

196. 2011 – Lionel Messi
197. 2012 – Lionel Messi
198. 2013 – Cristiano Ronaldo
199. The 2010 world cup was won by Spain.
200. The 2014 world cup will hold in Brazil.
201. The 2012 Olympic was won by Mexico
202. On December 12th 1991, the capital of Nigeria was moved from Lagos to Abuja by Gen. Ibrahim Babangida.
203. The first managing director of NNPC is F.R.T.Mourinho
204. The first Nigerian to obtain Ph.D in mathematics is Prof.Chike Obi
205. The four service chiefs in Nigeria are: the chief of defence staff, the chief of army staff, the chief of air staff and the chief of naval staff.
206. The director general of SSS is Daura Lawal? *Find Out Recent Info*
207. The new national security adviser is **find out**?
208. The six geo-political zones of Nigeria are: the south-east, the south-south, the south-west, the north central, the northeast and the north-west.
209. The first chief judge of Nigeria is Adetokunbo Ademola
210. The first director general of NYSC is Col. Alhmadu Ali
211. The current chief of the air staff is ? *Find Out Recent Info*
212. The first Nigerian to speak foreign language was Oba Esiege of Benin in 1503.
213. The first Nigerian traditional ruler to be dethroned by colonist is King Jaja of

Opobo

214. In 1906, FCT was taken from Calabar to Lokoja, from Lokoja to Lagos and from

Lagos to Abuja on Thursday 12th December, 1991.

215. OdumegwuOjukwu is the first university graduate out of the Nigerian Defence

Academy.

216. The first wrestler in Nigeria to win World Belt was MikeOkpala

217. The first storey building in Nigeria was in Badagry, Lagos.

218. Pope John Paul II died on 2nd April, 1005 at the age84yrs.

219. The current pope of the catholic church is Pope Francis Jorge Bergoglio and he became pope on March 13th, 2013

BIRTH AND TERMS

220. One offspring is called singleton

221. Two offspring is called twins

222. Three offspring is called triplets

223. Four offspring is called quadruplets

224. Five offspring is called quintuplets

225. Six offspring is called sextuplets

226. Seven offspring is called septuplets

227. Eight offspring is called octuplets

228. Nine offspring is called nonuplets

229. Ten offspring is called decaplets

230. Eleven offspring is called undecaplets

231. Twelve offspring is called duodecaplets

THE FUNDAMENTAL HUMAN RIGHTS

232. Right of life
233. Right to dignity of human person
234. Right to personal liberty
235. Right of fair hearing
236. Right to private family
237. Right to freedom of expression and the press
238. Right of peaceful association
239. Right to freedom and movement
240. Right to freedom from discrimination
241. Right to acquire and own immovable property anywhere in Nigeria
242. Compulsory acquisition of property
243. Special jurisdiction of high court and legal aid
244. The green colour in the Nigerian flag depicts country's land and agricultural potential while the white colour stand for peace and unity
245. The red eagle in the Nigerian coat of arm represents Nigeria's strength
246. The black shield signifies the abundant qualities of the land in agriculture, solid mineral resources.
247. The Y silver wavy band represents the two major rivers in the country (Niger and Benue).
248. The white horse represents dignity
249. The base upon which the shield rests is coctus spectabilis, a wild flower grown in many parts of Nigeria.
250. Underneath is the motto: Unity and faith, peace and progress.
251. Miss Agbani Darego of Nigeria became the first to win Miss

World in the whole Africa on Nov. 17,2001

252. World bank was founded on the 27th of Dec. 1945 in Switzerland.

253. 1848 Mary sleasor stopped killing of twins in Nigeria. She died in 1915.

254. The largest library in the world is the united state library of congress Washington D.C.

255. The first female president in the world is Isabela Porte of Argentina in 1974.

256. The youngest pope was Benedict IX at age 11-12 in 1032 AD.

257. The estimated age of the earth is 4.6 billion years.

258. The highest mountain in the world is mount Everest about 8848m high.

259. The largest stadium in the world is maracana stadium Brazil with about 245,000 capacity.

260. The youngest professor is Colin Mclaurin in mathematics at age of 19.

261. The first man to travel to space is Yuri Gagarin in April 1961- Russia.

262. The first man to walk on the moon is Neli Armstrong July 1969- USA.

263. The largest desert in the world is Sahara desert in North Africa.

264. The coolest place in the world is Plateau Station Anterctica.

265. The driest place in the world is Atacama desert Chile.

266. The largest ocean in the world is Pacific ocean about 64,000sq. mile.

267. The largest continent is Asia and Oceania the smallest.

268. On 21st may, 1904. FIFA was formed.

269. The first African female president is Mrs. Ellen Johnson from Liberia.

270. The first African country to gain independent is Liberia on 26th July, 1847.

271. The smallest independent country in the world is Vatican City.

272. The first Eclipse of the sun was on 20th July, 1947.

273. The longest river in the world is River Nile. About 6,825km.

274. On Sept. 11th 2001 world trade centre was bombed in America, Osama Bin laden was the prime suspect.

275. On March, 20th 2003. Golf war between Iraq and America and Sadam Hussein was Overthrown by American Forces.

276. The first country to lose national team in plane crash is Zambia 1993.

277. The first coup in Ghana was on 29th February, 1966.

278. The first coup in Togo was on 13th January 1963.

279. On 12th Aug,1989. Sam Oparaji died on the field while playing for Nigeria at the national stadium Surulere, Lagos.

280. On 3rd Dec, 2001 the Attorney General of the federation Bola Ige was assassinated.

281. The first execution of arm robbers in Nigeria took place on 1st April 1971.

282. The first execution of drug traffickers in Nigeria took place on

1st April 1986 at   Kirikiri. Lagos.

283. On 16th Aug, 2003. IDi Amin of Uganda died in Exile.

284. On 13th Dec, 2003 Sadam Hussein was capture by American forces.

285. On 16th of Jan, 2006 Mrs. Ellen Johnson Saleaf becomethe president of Liberia.

286. The largest international organization is FIFA, with 208 nations.

287. The largest country by population is China, with 1.32 billion people.

288. The smallest country by population is   Vatican City, with 786.

289. The first country to allow woman to vote is New Zealand in 1893.

290. The first country to allow women stand for election is Finland, 1905.

291. The oldest parliament person to win an election is Senator Storm Thurmond, of South Carolina for the republicans, United Sate of America in1995.

292. The longest serving head of state is king Bhumibol Adulyadej of Thailand currently, since 9th June 1946.

293. The longest serving head of state ever is Pharaoh Papi II of Egypt, from c. 227 BC-c.2184 BC (94 years).

294. The shortest reigning Monarch is Lous-Antonio, Duke of Angouleme, approximately 20min on 2nd Aug , 1830.

295. The oldest serving president of a country is Ratu Josefa Hoilo

Uluivuda of the Fiji, at 86 years as of year 2006.45.   The
longest monarchy by age is king

Louis XIV at age 5, rule lasted 72 years.

296. The largest empire is British Empire, 37 million km2 (1912).

297. The largest air battle is Battle of Britain in 1940.

298. The largest tank battle is the Battle of Kurst in 1943.

299. The first radio news program: 8MK in Detriot,Michinga, USA
on 31st Aug, 1920.

300. The longest continuously operating television channel is BBC
One, started on the 2nd Nov, 1936.

301. The largest audience for a TV series is Baywatch, 1.1 billion
viewers.

302. The longest movie is The Cure for Insomnia, 5220 minutes
(87 hours).

303. The highest paid actor are; Chris Tuker, Will Smith, Tom
Cruise, all $100+million dollars with only two or more movie.

304. The largest film studio is Son Ramoji Film City in Hyderabed,
Indian; 674 ha.

305. The best selling male artist; under dispute Michael Jackson.

306. The best selling Female artist; under dispute Celine Dion,
Madonna or Mariah Carey.

307. The best selling rap/hip-hop artist under dispute 2pac or
Eminem. (Both approx. 80 Million.

308. The best selling album; Thriller by Michael Jackson. (104
million copies).

309. The best selling history; Michael Jackson.(18 million, 16

million)

310. The best selling remix album; blood on the dance floor-Michael Jackson.

311. The best selling album by a female; Shania Twain-Come On Over.

312. The best selling gospel album; The preacher's wife soundtrack- Whitney Houston. (16 million copies).

313. The best selling non-English album; Billo De Ghar -Abr-ul-haq. (16 million).

314. The highest earning entertainer of all time is Michael Jackson.

315. The largest recording contract- Michael Jackson. (Sony music $890 million)

316. Highest earning female singer of all time: Madonna.

317. The longest music video: Ghost by Micheal Jackson. (35 min).

318. The most awarded recording artist: Michael Jackson with 538 awards.

319. The most awarded female artist: Whitney Houston, with 411 awards.

320. The most expensive music video ever: Scream by Michael Jackson and Janet Jackson.

321. The highest number of song sung by a person. Lata mangeshkar, 30,000 songs.

322. The language with most number of speakers. Manderin Chinese. (1.08 billion).

323. The language isolated with most number of speakers: Esperantor (between 100,000 and 2 million)

324. The most wide spread spoken language: English (73 countries and territories).

325. The country with most number of languages: Indian, at least 800 different languages and around 200 dialect.

326. The country with most numbers of official languages, Indian with total of 23 official languages.

327. The first political party in Nigeria was formed by Herbert Macauly

328. The first political party in Nigeria is Nigerian National Democratic party

329. The eagle in the Nigerian coat of arm represents Strength

330. The two horses on the Nigerian coat of arm represent Dignity

331. The first capital city in Nigeria is Calabar

332. When did Nigerian Golden eaglets win the world under-17 FIFA world cup? 1985, 1993, 2007, 2013

333. The first female vice chancellor in Nigerian university is Prof. Grace Alele Williams

334. The Nigerian flag was designed by Michael Taiwo Akinkunmi

335. The first man to buy a car in Nigeria is Bob Jensen

336. The first woman to buy and drive a car in Nigeria is Funmilayo Ransome Kuti

337. The first TV station in Nigeria is The Western Nigerian Government Broadcasting Corporation (WNTV) in 1959

338. Crude oil was first discovered in Nigeria in Oloibiri Oilfield, located in Oloibiri in Ogbia LGA of Bayelsa State

339. The first Nigerian to become a Noble Laureate is Prof. Wole Soyinka

340. The current chief justice of Nigeria is Mahmoud Mohammed.

341. When was the first military coup carried out in Nigeria? 1966

342. What is the largest continent in the world? ASIA with population of 3,641,000,000 while Australia & Oceania is the smallest continent

343. The five Oceans in the world are: Pacific Ocean, Atlantic Ocean, Indian Ocean, Southern Ocean, Arctic Ocean

344. What is the full meaning of UNICEF? United Nations International Children's Emergency Fund

345. Which country's flag is called the Union Jack? Great Britain

346. Coal was discover at Enugu in 1912.

347. The National Stadium in Lagos was Commissioned on Dec. 4th 1972.

348. Operation WETTIE happened after 1965 election

349. Lagos-Ibadan Railway line was completed in 1901

350. War against Indiscipline was inaugurated in March 20th 1984.

351. First wrestler Nigeria to win a world Belt is Mike Okpala.

352. The seat of the Federal Government was move from Lagos to Abuja on Dec. 12th 1991.

353. Queen Elizabeth visited Nigeria in 1956 and again in 2003. She has only visited Nigeria twice·

354. Pound sterling was introduce as Nigeria currency in 1945.

355. First motor road in Nigeria (Ibadan-Oyo) was completed in 1905.

356. University College Hospital Ibadan was established and headed by Dr. Kenneth Mallany in 1948.

357. Niger Dam (Kanji Dam) was opened in 1970

358. Alhaji Shehu Shagari became the first Nigeria executive President on Oct. 1st 1979.

359. Slave trade was abolish in Nigeria between 1976-1898.

360. Prof. Wole Shoyinka became the first Africa and Nigeria to win the world Noble price for literature in Stock-ham Sweden on Oct. 16th 1986.

361. The first Nigeria Hospital was built by Father Coquard at Abeokuta.

362. Gen I.B Babangida became 1st Millitary President in August 27th, 1986.

363. Nigeria change into metric system of currency (Naira and Kobbo) on Jan. 1st 1958.

364. Central Bank of Nigeria was Opened for business on 1958.

365. The first Landing of Aeroplane in Nigeria took place in Kano in 1925.

366. The first woman Pilot in Nigeria was Chinyere Onyemaucheya.

367. Hitler War started in 1939.

368. The first chairman of P.D.P was chief Solomon Lar.

369. The first chairman of A.D was Mamman A.D was Mamman Yusuf.

370. The first chairman of A.P.P was Alhji Yusuf Ali.

LIST OF BUHARI'S APPOINTMENTS

1.Aide de Camp to president: Lt. Col Abubakar Lawal, [Kano State, North-West and husband to President Buhari's foster daughter].

2.Special Adviser, Media and Publicity to the president: Femi Adesina, [Osun State, South-West].

3.Senior Special Assistant, Media and Publicity: Garba Shehu, [Kano State, North-West].

4.State Chief of Protocol/Special Assistant (Presidential Matters): Lawal Abdullahi Kazaure, [Jigawa State, North-West].

5.Accountant General of the Federation: Ahmed Idris [Kano State, North-West].

6. National Security Adviser: Babagana Monguno [Borno State, North-East].

7. Chief of Defence Staff, Abayomi Olonishakin, [Ekiti State, South-West].

8. Chief of Army Staff: Tukur Buratai, [Borno State, North-East].

9. Chief of Naval Staff: Ibok-Ete Ekwe Ibas, [Cross Rivers, South-South].

10. Chief of Air Staff, Sadique Abubakar, [Bauchi State, North-East].

11. Chief of Defence Intelligence: Monday Riku Morgan [Benue State, North-Central].

12. Director General, State Security Services, SSS: Lawal Daura, [Katsina State, North-West].

13. Acting Chairperson, Independent National Electoral Commission, INEC, Amina Zakari, [Jigawa State, North-West].

14. Managing Director, Nigerian Ports Authority, NPA: Habibu Abdulahi [Kano State, North-West].

15. Special Adviser, Niger Delta Amnesty Office: Paul Boroh, [Bayelsa State, South-South]

16. Acting Director General, Nigerian Maritime Administration, Safety and Security Agency, NIMASA: Baba Haruna Jauro [Yobe State, North-East].

17. Executive Vice Chairman/ Chief Executive Officer, Nigerian Communications Commission: Umaru Dambatta [Kano State, North-West].

18. Executive Chairman, Federal Inland Revenue Service, FIRS: Babatunde Fowler, [Lagos State, South-West].

19. Director General, Budget Office of the Federation: Aliyu Gusau, [Zamfara State, North-West].

20. Group Managing Director, Nigeria National Petroleum Corporation, NNPC, Emmanuel Kachikwu, [Delta State, South-South].

21. Secretary to Government of the Federation, Babachir David Lawal, [Adamawa, North East]

22. Chief of Staff to the President: Abba Kyari, [Borno, North-East].

23. Comptroller-General, Nigerian Customs Service: Hameed Ibrahim Ali, [Kaduna State, North-Central].

24. Comptroller-General, Nigerian Immigration Service: Kure Martin Abeshi, [Nasarawa State, North-Central].

25. Senior Special Assistant on National Assembly Matters (Senate): Ita Enang, [Akwa Ibom State, South-South].

26. Senior Special Assistant on National Assembly Matters (House of Representatives): Suleiman Kawu, [Kano State, North-West].

27. Director, Department Of Petroleum Resources, DPR, Modecai Baba Ladan. [Kano, North West].

28. Managing Director, Asset Management Company of Nigeria, AMCON, Ahmed Lawan Kuru.

29. Commissioner for Insurance and Chief Executive of the National Insurance Commission, Mohammed Kari [North-West]

29. Executive Director AMCON: Kola Ayeye.

30. Executive Director, AMCON: EberechukwuUneze.

31. Executive Director, AMCON: AminuIsmail.

32. Group Executive Director, NNPC, MaikantiBaru.

33. Group Executive Director, NNPC, IsiakaAbdulrazaq.

34. Group Executive Director, NNPC: Dennis Nnamdi Ajulu.

35. Group Executive Director, NNPC: Babatunde Victor Adeniran.

LIST OF BUHARI'S MINISTERS

1. Chris Ngige – (Anambra) Minister of Labour & Employment

2. Kayode Fayemi- (Ekiti) Minister of Solid Minerals

3. Rotimi Amaechi – (Rivers) Minister of Transportation

4. Babatunde Fashola -(Lagos) Minister of Power, Works and Housing

5. Abdulrahman Dambazau- (Kano) Minister of Interior

6. Aisha Alhassan – (Taraba) Minister of Women Affairs

7. Ogbonaya Onu- (Ebonyi) Minister of Science and Technology

8. Kemi Adeosun – (Ogun) Minister of Finance

9. Abubakar Malami – (Kebbi) Minister of Justice & Attorney-General

10. Sen Hadi Sirika – (Katsina) Minister of State, Aviation

11. Barr. Adebayo Shittu – (Oyo) Minister of Communication

12. Suleiman Adamu – (Jigawa) Minister of Water Resources

13. Solomon Dalong – (Plateau) Minister for Youth and Sports

14. Ibe Kachikwu – (Delta) Minister of State, Petroleum

15. Osagie Ehanire – (Edo) Minister of State, Health

16. Audu Ogbeh – (Benue) Minister of Agriculture

17. Udo Udo Udoma – (Akwa Ibom) Minister of Budget & National Planning

18. Lai Mohammed – (Kwara) Minister of Information

19. Amina Mohammed – (Gombe) Minister of Environment

20. Ibrahim Usman Jibril – (Nasarawa) Minister of State, Environment

21. Hajia Khadija Bukar Ibrahim- (Yobe) Minister of State, Foreign Affairs

22. Cladius Omoleye Daramola (Ondo) Minister of State, Niger Delta

23. Prof Anthony Onwuka (Imo) Minister of State, Education

24. Geoffrey Onyema (Enugu) Minister of Foreign Affairs

25. Dan Ali (Zamfara) Minister of Defence

26. Barr James Ocholi (Kogi) Minister of State, Labour & Employment

27. Zainab Ahmed (Kaduna) Minister of State Budget and National Planning

28. Okechukwu Enelamah (Abia) Minister of Trade, Investment & Industry

29. Muhammadu Bello (Adamawa) Minister of Federal Capital Territory

30. Mustapha Baba Shehuri (Bornu) Minister of State, Power

31. Aisha Abubakar (Sokoto) Minister of State, Trade & Investment

32. Heineken Lokpobiri (Bayelsa) Minister of State, Agriculture

33. Adamu Adamu (Bauchi) Minister of Education

34. Isaac Adewole (Osun) Minister of Health

35. Abubakar Bawa Bwari (Niger) Minister of State, Solid Minerals

36. Pastor Usani Uguru (Cross River) Minister of Niger Delta

* President Muhammadu Buhari- Minister of Petroleum

State	Current Governor	Party
Abia State	Okezie Ikpeazu	PDP
Adamawa State	Jibrilla Bindow	APC
Akwa Ibom State	Udom Gabriel Emmanuel	PDP
Anambra State	Willie Obiano	APGA
Bauchi State	Mohammed Abdullahi Abubakar	APC
Bayelsa State	Henry Seriake Dickson	PDP
Benue State	Samuel Ortom	APC
Borno State	Kashim Shettima	APC

State	CurrentGovernor	Party
Cross River State	BenedictAyade	PDP
DeltaState	IfeanyiOkowa	PDP
EbonyiState	DaveUmahi	PDP
EdoState	AdamsOshiomhole	APC
EkitiState	AyoFayose	PDP
EnuguState	IfeanyiUgwuanyi	PDP
GombeState	Ibrahim HassanDankwambo	PDP
ImoState	Owelle RochasOkorocha	APC
JigawaState	BadaruAbubakar	APC
KadunaState	Nasir Ahmad el-Rufai	APC
KanoState	Abdullahi UmarGanduje	APC
KatsinaState	Aminu BelloMasari	APC
KebbiState	Abubakar Atiku Bagudu	APC

State	Current Governor	Party
Kogi State	Idris Wada*	PDP
Kwara State	Abdulfatah Ahmed	APC
Lagos State	Akinwunmi Ambode	APC
Nasarawa State	Umaru Tanko Al-Makura	APC
Niger State	Abubakar Sani Bello	APC
Ogun State	Ibikunle Oyelaja Amosun	APC
Ondo State	Olusegun Mimiko	PDP
Osun State	Rauf Aregbesola	APC
Oyo State	Isiaka Abiola Ajimobi	APC
Plateau State	Simon Lalong	APC
Rivers State	Ezenwo Nyesom Wike	PDP
Sokoto State	Aminu Waziri Tambuwal	APC
Taraba State	Mr. Darius Ishaku	PDP

State	CurrentGovernor	Party
YobeState	IbrahimGeidam	APC
ZamfaraState	Abdul-Aziz YariAbubakar	APC

*The just concluded Kogi Election has Yahaya Bello as the Governor – elect   to be sworn in on 20th January, 2016. He replaced Audu Abubakar who died on 22nd November, 2015. James Faleke is controversial the deputy-governor elect.

TOURIST ATTRACTIONS IN NIGERIA	
NIGERIA	LOCATION
NATIONAL WAR MUSEUM	ABIA STATE
ZUMA ROCK	ABUJA
THREE SISTERS HILL	ADAMAWA
ORON MUSEUM	AKWA-IBOM
ODINANI MUSEUM	ANAMBRA
WIKKI LAME BURRA GAME RESERVE	BAUCHI
USHANGO HILLS	BENUE
KYARINMI PARK	BORNO
NGEJI WARM SPRING	BORNO
ODUDU CATTLE RANCH	CROSS-RIVER
AGBOKUN FALLS	CROSS-RIVER
OGBA ZOO	BENIN
NIKE LAKE	ENUGU
OGUTA LAKE	IMO
ROLLIN HILL,OKIGWE	IMO
KUFENA HILL ,ZARIA	KADUNA
TIGA DAM	KANO
GADAN MAKAMAN MUSEUM	KANO

KUSUGU WELL	KASTINA
KANTA MUSEUM	KEBBI
BORGU GAME RESERVE	KOGI
ESE MUSEUM OF STONE FIGURES	KWARA
OWU WATER FALLS	KWARA
NATIONAL MUSEUM	LAGOS
NATIONAL THEATRE	LAGOS
SHIRORO DAM	NIGER
OLUMO ROCK	OGUN
NATIONAL MUSEUM ,OWO	ONDO
IKOGOSI WARM SPRINGS	ONDO
ERIN IJESA WATER FALL	OSUN
AGODI ZOOLOGICAL GARDEN	OYO
ZOOLOGICAL GARDEN	PLATEAU
SHERE HILL	PLATEAU
ISAAC BORO PACK	RIVERS
GIBADI ROCKS	SOKOTO
TOMB OF USMAN DAM FODIO	SOKOTO
MAMBILA PLATEAU GASHAKA	TARABA
KARIMBELA GAME RESERVES	TARABA

The former colonial masters in Nigeria are:

Sir Frederick Lord Lugard (1900 - 1919).

Sir Hugh Clifford (1919 - 1925).

Sir Creamer Thompson (1925 -1931).

Sir Donald Cameroon (1931-1935).

Sir Bernard Bourdilion (1935 –1943).

Sir Anthony Richard (1943 – 1948).

Sir John McPherson (1948 – 1958).

Sir James Robertson (1958 – 19600).

Past Presidents & Heads of State

1.1st Oct. 1960 – 1st Oct. 1963:Dr. Nnamdi Azikiwe (Governor General)

Sir. Abubakar Tafawa Balewa; (Prime Minister)

1st Oct. 1963 – 16thJan.1966:Dr. NnamdiAzikiwe(President)

Sir. Abubakar Tafawa Balewa; (Prime Minister)

2.16th Jan. 1966 – 29th July 1966: Gen J.T.U Aguyi Ironsi (Military Head of State)

Brig. Babafemi Ogundipe (Chief of Staff, SupremeHq.)

3.1st Aug. – 29th July 1975:Gen. Yakubu Gowon (Military Head ofState)

Vice Admiral Joseph Edet AkinwaleWey, (Chief of Staff, SupremeHq.)

4. 29th July 1975 – 13th Feb. 1976:Gen. Murtala Ramat Muhammed (Military Head of State)

Gen. Olusegun Obasanjo (Chief of Staff, SupremeHq.)

5.13th Feb. 1976 – 1st Oct. 1979:Gen. Olusegun Obasanjo (Military Head of State)

Maj. Gen. Shehu Musa Yar'Adua (Chief of Staff, Supreme Hq.)

6.1st Oct. 1979 – 31st Dec. 1983: Alhaji Shehu Shagari (President)

Dr. Alex Ifeanyichukwu Ekweme (VicePresident)

7. 31st Dec. 1983 – 27th Aug. 1985 Maj. Gen. Muhammadu Buhari (Military Head of State)

Brig. Babatunde Idiagbon (Chief of Staff, Supreme Hq.)

8. 27th Aug. 1985 – 26th Aug. 1993 Gen. Ibrahim Badamosi Babangida (Military President)

Commodore Ebitu Ukiwe (Chief of General Staff;1985-1986),

Admiral Augustus Aikhomu (Chief of General Staff;1986-1993)

9. 26th Aug. – 17th Nov. 1993: Ernest Shonekan (Head of Interim National Government)

10. 17th Nov. 1993 - 8th June 1998: Gen. Sani Abacha (Military Head of State) Lt. Gen.

Oladipo Diya (Chief of General Staff)

11. 8th June 1998 – 29th May 1999: Gen. Abdulsalami Abubakar (Military Head of State)

Vice Admiral Mike Okhai Akhigbe (Chief of General Staff)

12. 29th May 1999 – 29th May 2007: Chief Olusegun Obasanjo(President) Alhaji Atiku

Abubakar (Vice President)

13. 29th May 2007 – 5th May 2010:Umaru Musa Yar'Adua(President) Dr. Goodluck

Ebele Jonathan Vice President)

14. 9th Feb.2010 – 6th May 2010:Dr. Goodluck Ebele Jonathan   (Acting President,
Acted for Umaru M. Yar'Adua who was indisposed due to ill health)

15.6th May 2010- 29th May 2011:Dr. Goodluck Ebele Jonathan(President)

Arc. Namadi sambo; (Vice president)

16.29th May 2011 - 28th May 2015: Goodluck Jonathan(President) Arc. Namadi sambo

 (Vice president)

16.29th May2015 -to date: President MuhammduBuhari Prof. Yemi Osinbanjo (Vice President)

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