Aptitude Test
(Questions & Answers)

LOGICAL

1. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?

   a) 120 metres
   b) 180 metres
   c) 324 metres
   d) 150 metres

   Answer: Option d

   Explanation:

   $$\text{Speed} = \left[60 \times \frac{5}{18}\right] \text{m/sec} = \frac{50}{3} \text{ m/sec.}$$

   Length of the train = (Speed x Time).

   $$\text{Length of the train} = \left[\frac{50}{3} \times 9\right] \text{m} = 150 \text{ m.}$$

2. A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:

   a) 45 km/hr
   b) 50 km/hr
   c) 54 km/hr
   d) 55 km/hr

   Answer: Option b

   Explanation:

   $$\text{Speed of the train relative to man} = \left[\frac{125}{10}\right] \text{m/sec}$$

   $$= \left[\frac{25}{2}\right] \text{m/sec.}$$

   $$= \left[\frac{25}{2} \times \frac{18}{5}\right] \text{km/hr}$$

   $$= 45 \text{ km/hr.}$$

   Let the speed of the train be x km/hr. Then, relative speed = (x - 5) km/hr.

   x - 5 = 45   x = 50 km/hr.

3. A train 240 m long passes a pole in 24 seconds. How long will it take to pass a platform 650 m long?

    a) 65 sec
    b) 89 sec
    c) 100 sec
    d) 150 sec

    Answer: Option b

    Explanation:

    $$\text{Speed} = \left[\frac{240}{24} \right] \text{m/sec} = 10 \text{ m/sec.}$$

    $$\text{Required time} = \left[\frac{240 + 650}{10} \right] \text{sec} = 89 \text{ sec.}$$

4. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

    a) Sunday
    b) Saturday
    c) Friday
    d) Wednesday

    Answer: Option C

    Explanation:

    On 31st December, 2005 it was Saturday.

    Number of odd days from the year 2006 to the year 2009 = (1 + 1 + 2 + 1) = 5 days.

    ∴ On 31st December 2009, it was Thursday.

    Thus, on 1st Jan, 2010 it is Friday.

5. On 8th Dec, 2007 Saturday falls. What day of the week was it on 8th Dec, 2006?

    a) Sunday
    b) Thursday
    c) Tuesday
    d) Friday

    Answer: Option d

The year 2006 is an ordinary year. So, it has 1 odd day.

So, the day on 8th Dec, 2007 will be 1 day beyond the day on 8th Dec, 2006.

But, 8th Dec, 2007 is Saturday.

∴ 8th Dec, 2006 is Friday.

6. January 1, 2008 is Tuesday. What day of the week lies on Jan 1, 2009?

   a) Monday
   b) Wednesday
   c) Thursday
   d) Sunday

Answer: Option C

Explanation:

The year 2008 is a leap year. So, it has 2 odd days.

1st day of the year 2008 is Tuesday (Given)
So, 1st day of the year 2009 is 2 days beyond Tuesday.

Hence, it will be Thursday.

7. Which one of the following is not a prime number?
   a) 31
   b) 61
   c) 71
   d) 91

   Answer: Option d

   Explanation:

   91 is divisible by 7. So, it is not a prime number.

8. 1397 x 1397 = ?
   a) 1951609
   b) 1981709
   c) 18362619
   d) 2031719
   e) None of these

   Answer: Option a

Explanation:

   1397 x 1397   = $(1397)2$

$$= (1400 - 3)2$$

$$= (1400)2 + (3)2 - (2 \times 1400 \times 3)$$

$$= 1960000 + 9 - 8400$$

$$= 1960009 - 8400$$

$$= 1951609.$$

9. A man has Rs.480 in the denominations of one-rupee notes, five-rupee notes and ten-   rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

   a) 45
   b) 60
   c) 75
   d) 90

   Answer: Option d

   Explanation:

   Let number of notes of each denomination be x.
   Then $x + 5x + 10x = 480$
   $\Rightarrow 16x = 480$
   $\therefore$ $x = 30.$
   Hence, total number of notes $= 3x = 90$.

10. If $a - b = 3$ and $a^2 + b^2 = 29$, find the value of $ab.$

   a) 10
   b) 12
   c) 15
   d) 18

   Answer: Option a

   Explanation:

   $2ab = (a^2 + b^2) - (a - b)^2$

   $= 29 - 9 = 20$

   $\Rightarrow ab = 10.$

VERBAL

1. Arrange the words given below in a meaningful sequence.

    1. Key   2. Door   3. Lock   4. Room   5. Switch on

   a) 5, 1, 2, 4, 3
   b) 4, 2, 1, 5, 3
   c) 1, 3, 2, 4, 5
   d) 1, 2, 3, 5, 4

   Answer: Option c

   Explanation:

      The correct order is :

      Key   Lock   Door   Room Switch on
       1   3   2   4   5

2. Arrange the words given below in a meaningful sequence.

    1. Word   2. Paragraph   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

   Answer: Option d

   Explanation:
      The correct order is :

      Letters   Word   Phrase   Sentence   Paragraph
         4   1   5   3   2

3. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my   mother." How is Suresh related to that boy?

a) Brother

b) Uncle

c) Cousin

d) Father

Answer: Option d

Explanation:

The boy in the photograph is the only son of the son of Suresh's mother i.e., the son of Suresh. Hence, Suresh is the father of boy.

4. If A is the brother of B; B is the sister of C; and C is the father of D, how D is related to A?

a) Brother

b) Sister

c) Nephew

d) Cannot be determined

Answer: Option d

Explanation:

If D is Male, the answer is Nephew.

If D is Female, the answer is Niece.

As the sex of D is not known, hence, the relation between D and A cannot be determined.

Note: Niece - A daughter of one's brother or sister, or of one's brother-in-law or sister-in-law. Nephew - A son of one's brother or sister, or of one's brother-in-law or sister-in-law.

5. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the right of P ?

a) A

b) X

c) S

d) Z

Answer: Option b

6.   <u>Directions to Solve</u>

Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the right of Rani. Reeta is between Rani and Mary.

Who is sitting immediate right to Reeta ?

   a) Bindu
   b) Rani
   c) Mary
   d) Seema

Answer: Option c

Explanation:

Bindu _ Seema _ Rani _ Reeta _ Mary

Mary is sitting immediate right to Reeta.

7. The total of the ages of Amar, Akbar and Anthony is 80 years. What was the total of   their ages three years ago ?

   a) 71 years
   b) 72 years
   c) 74 years
   d) 77 years

Answer: Option a

Explanation:

Required sum = (80 - 3 x 3) years = (80 - 9) years = 71 years.

8. Directions to Solve

Below in each of the questions are given two statements I and II. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statements. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

Mark answer

- (A) If statement I is the cause and statement II is its effect.
- (B) If statement II is the cause and statement I is its effect.
- (C) If both the statements I and II are independent causes.
- (D) If both the statements I and II are effects of independent causes.
- (E) If both the statements I and II are effects of some common cause.

Statements:

I. Standard of living among the middle class society is constantly going up since part of few years.

II. Indian Economy is observing remarkable growth.

- Statement I is the cause and statement II is its effect.
- Statement II is the cause and statement I is its effect.
- Both the statements I and II are independent causes.
- Both the statements I and II are effects of independent causes.
- Both the statements I and II are effects of some common cause.

Answer: Option a

Explanation:

Since the standard of living among the middle-class society is constantly going up so Indian Economy is observing remarkable growth.

9. A train always has

a) Rails
b) Driver
c) Guard
d) Engine
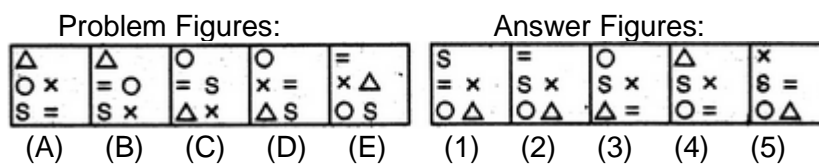
Answer: Option d

10. A song always has

a) Word
b) Chorus
c) Musician
d) Tymbal

Non-Verbal Reasoning

1. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
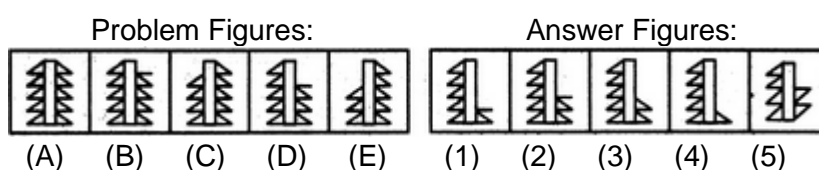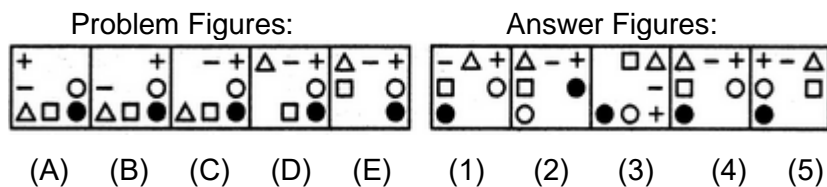

a) 1
b) 2
c) 3
d) 4
e) 5

Answer: Option c

Explanation: In each step, the pin rotates 90°CW and the arrow rotates 90°ACW.

2. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

a) 1
b) 2

c) 3

d) 4

e) 5

Answer: Option b

Explanation:

In one step, the figure gets laterally inverted and one line segment is lost from the upper end of the RHS portion of the figure. In the next step, the figure gets laterally inverted and one line segment is lost from the upper end of the LHS portion of the figure.

3. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
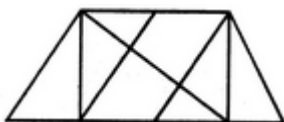
Problem Figures: Answer Figures:

(A)   (B)   (C)   (D)   (E)   (1)   (2)   (3)   (4)   (5)

a) 1

b) 2

c) 3

d) 4

e) 5

Answer: Option d

Explanation: In each step, the CW-end element moves to the ACW-end position.

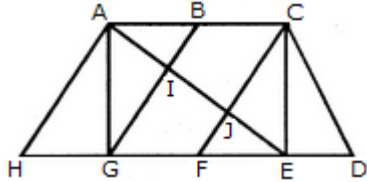4. Find the number of triangles in the given figure.

a) 8

b) 10

c) 12

d) 14

Answer: Option d

Explanation:

The figure may be labelled as shown.

The simplest triangles are AHG, AIG, AIB, JFE, CJE and CED i.e., 6 in number.

The triangles composed of two components each are ABG, CFE, ACJ and EGI i.e., 4 in number.

The triangles composed of three components each are ACE, AGE and CFD i.e., 3 in number.

There is only one triangle i.e., AHE composed of four components.

Therefore, there are 6 + 4 + 3 + 1 = 14 triangles in the given figure.

5. Choose the alternative which is closely resembles the mirror image of the given combination.

ANS43Q12

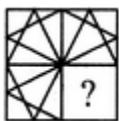(1) ANS43Q12 [mirrored]   (2) ANS43Q12 [mirrored]

(3) ANS43Q12 [mirrored]   (4) ANS43Q12 [mirrored]

a) 1

b) 2

c) 3

d) 4

Answer: Option b
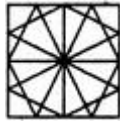
6. Identify the figure that completes the pattern.
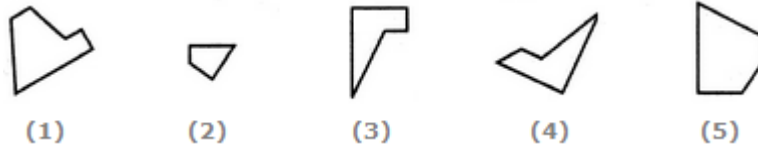

a) 1

b) 2

c) 3

d) 4

Answer: Option d

Explanation:

7. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.
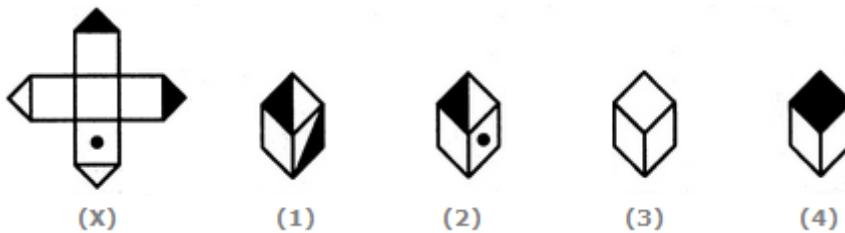

a) 145

b) 245

c) 123

d) 234

Answer: Option b

Explanation:

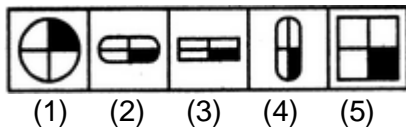8. Choose the box that is similar to the box formed from the given sheet of paper (X).

a) 1 and 2 only

b) 2 and 4 only

c) 2 and 3 only

d) 1 and 4 only

Answer: Option c

The fig. (X) is similar to the **Form VI**. So, when a cube is formed by folding the sheet shown in fig. (X), then is one of the faces of the cube. However, the cube in fig. (1) has two such faces and fig. (4) has a face which is completely shaded. So, these two cubes cannot be formed. Hence, only the cubes in figures (2) and (3) can be formed.

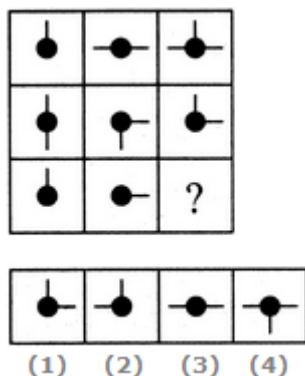9. Choose the figure which is different from the rest.

(1)   (2)   (3)   (4)   (5)

a) 1
b) 2
c) 3
d) 4
e) 5
f)

Answer: Option a

Explanation:

In all other figures, the lower-right quarter portion is shaded.

10. Select a suitable figure from the four alternatives that would complete the figure matrix.

(1)   (2)   (3)   (4)

a) 1
b) 2
c) 3
d) 4

Answer: Option a

Explanation:

In each row, the third figure comprises of a black circle and only those line segments which are not common to the first and the second figures.

Verbal Ability Questions and Answers

1. Directions to Solve

Find the correctly spelt words.

‡ (Solve as per the **direction** given above)

   a) Efficient
   b) Treatmeant
   c) Beterment
   d) Employd

Answer: Option a

2. Directions to Solve

In the questions below the sentences have been given in Direct/Indirect speech. From the given alternatives, choose the one which best expresses the given sentence in Indirect/Direct speech.

‡ "If you don't keep quiet I shall shoot you", he said to her in a calm voice.

   a) He warned her to shoot if she didn't keep quiet calmly.
   b) He said calmly that I shall shoot you if you don't be quiet.
   c) He warned her calmly that he would shoot her if she didn't keep quiet.
   d) Calmly he warned her that be quiet or else he will have to shoot her.

Answer: Option c

3. Directions to Solve

In the following the questions choose the word which best expresses the meaning of the given word.

➕ AUGUST

 a) Common
 b) Ridiculous
 c) Dignified
 d) Petty

 Answer: Option c

4. Directions to Solve
In the following questions choose the word which is the exact OPPOSITE of the given words.

➕ RELINQUISH

 a) Abdicate
 b) Renounce
 c) Possess
 d) Deny

Answer: Option c

5. Directions to Solve

Pick out the most effective word(s) from the given words to fill in the blank to make the sentence meaningfully complete.

➕ Success in this examination depends ...... hard work alone.
 a) at
 b) over
 c) for
 d) on

Answer: Option d

6. Directions to Solve

In each question below a sentence broken into five or six parts. Join these parts to make a meaningful sentence. The correct order of parts is the answer.
 1. was   2. and   3. Suresh
 4. kind   5. loving

   a) 31425
   b) 54213
   c) 34251
   d) 15243
   e) 12345

Answer: Option a

7.Directions to Solve

Rearrange the following five sentences in proper sequence so as to for a meaningful paragraph, then answer the questions given below them.
   1. After Examining him, the doctor smiled at him mischievously and took out a syringe.
   2. Thinking that he was really sick, his father summoned the family doctor.
   3. That day, Mintu wanted to take a day off from school
   4. Immediately, Mintu jumped up from his bed and swore the he was fine
   5. Therefor; he pretended to be sick and remained in bed.

Which sentence should come **third** in the paragraph?
   a) 1
   b) 2
   c) 3
   d) 4
   e) 5

   Answer: Option b

8.Directions to Solve

In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice.

- After driving professor Kumar to the museum she dropped him at his hotel.
  - a) After being driven to the museum, Professor Kumar was dropped at his hotel.
  - b) Professor Kumar was being driven dropped at his hotel.
  - c) After she had driven Professor Kumar to the museum she had dropped him at his hotel.
  - d) After she was driven Professor Kumar to the museum she had dropped him at his hotel.

Answer: Option a

9.Directions to Solve

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.

- LIGHT:BLIND
  - a) speech:dumb
  - b) language:deaf
  - c) tongue:sound
  - d) voice:vibration

    Answer: Option a

10.Directions to Solve

Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of proverb/idiom, If there is no correct meaning given, E (i.e.) 'None of these' will be the answer.

- To drive home
  - a) To find one's roots
  - b) To return to place of rest
  - c) Back to original position

d) To emphasise

e) None of these

Answer: Option d

More questions and Answers visit this given links below;

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