Rrb Alp CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Alp CBT - 1 Previous Year Question Paper on 2018-08-09 in the Afternoon exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Alp CBT - 1 exam. There are 75 questions in the exam and 60 minutes are provided for the Rrb Alp CBT - 1 exam. The Cutoff of the exam was 40 marks hence you should try to score at least 50 marks.

Rrb Alp CBT - 1 Previous Year Question Paper : Questions and Solutions

Question 1 :
A battlefield always has:

Difficulty : Moderate   **Average Time : 39 Seconds**

Options :

1. Arrows

2. Elephants

3. Chariots

4. Soldiers

Solution :
The correct answer is **option 4** i.e. **Soldiers.**

A battlefield always has soldiers, soldiers going there should have weapons.

Question 2 :
The given venn diagram represents the students who can speak different languages. According to it, the total number of students who can speak exactly two languages is_____.

Difficulty : Moderate   **Average Time : 39 Seconds**

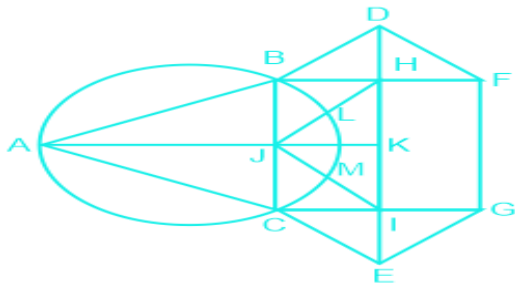**Options :**

   L + M + O

2. N + L

3. L + O

4. L + M + O. + N

Solution :

The correct answer is **option 1** i.e. **L + M + O.**

L + M + O students can speak exactly two languages.

L shows students who can speak English and Hindi.

M shows students who can speak English and Tamil.

O shows students who can speak Hindi and Tamil.

Hence, the correct answer is **L + M + O.**

Question 3 :
The focal length of a concave mirror with a radius of curvature of 20.0 cm is:

Difficulty : Moderate	Average Time : 53 Seconds

Options :

1. 15 cm

2. 20 cm

3. 5 cm

4. 10 cm

Solution :
The correct answer is **option 4** i.e. **10 cm**

Here, the radius of curvature of a spherical mirror is, r= 20 cm

- The focal length of a spherical mirror, f=?
- The focal length of a given mirror is half of the radius of curvature of the same mirror, f= r/2
- f = r/2
- f = 20/2
- f = 10 cm
- Hence, the focal length of the given mirror is **10 cm.**

Question 4 :

The 'Kathopanishad' captures the conversation between a young boy named Nachiketas and a god. Which of the following gods is taken to Nachiketas?

Difficulty : Moderate   **Average Time : 53 Seconds**

Options :

1. Lord Yama
2. Lord Shiva
3. Lord Indra
4. Lord karthikeya

Solution :

The correct answer is **option 1** i.e. **Lord Yama.**

- Katha Upanishads or Kathopanishad, one of the most widely known Upanishads, consists of two chapters, and each chapter is divided into three sections.
- The Kathopanishad consists of the story of a little boy named Nachiketa, who was the son of Saga Vajasravasa. Nackiketa met **Lord Yama** and discussed the nature of man, knowledge, soul, and moksha.

Question 5 :

Solve the following : 27 - [38 - { 46 - (15 - 13- 2)}]

Difficulty : Moderate   **Average Time : 47 Seconds**

Options :

1. 35
2. 31
3. 29

30

Solution :

The correct answer is **option 1** i.e. **35.**

= 27 - [38 - { 46 - (15 - 13- 2)}]

= 27 - [38 - {46 - (0)}]

= 27 - [38 - 46]

= 27 - [-8]

= 27 + 8

= 35

Question 6 :

The 2016 Olympics was held in which city?

Difficulty : Moderate   Average Time : 34 Seconds

Options :

1. Paris

2. Mexico City

3. Rio de Janeiro

4. London

Solution :

The correct answer is **option 3** i.e. **Rio de Janeiro.**

- The 2016 Olympics was held in the host city of **Rio de Janeiro.**
- Rio de Janeiro presented the IOC with a very strong technical bid, built upon a vision of the Games being a celebration of the athletes and sport, as well as providing the opportunity for the city, region, and country to deliver their broader long-term aspirations for the future.

Question 7 :

Choose the correct analogous word pair from the given alternatives. Carpenter : Hammer

Difficulty : Moderate   Average Time : 50 Seconds

Options :

Crain : Builder

2. Computer : Writer

3. Plumber : Wrench

4. Axe : Loggger

Solution :

The correct answer is **option 3** i.e. **Plumber : Wrench.**

Carpenter : Hammer

Here we see that a hammer is used by a carpenter while doing his work.

A wrench is a tool that is used by a plumber in performing his work, a wrench is a tool that is used to provide grip and for some other purposes as well.

So **Plumber : Wrench** is the correct answer

Question 8 :

Which of the following serves as a nutritive tissue for the growing embryo?

Difficulty : Moderate   **Average Time : 50 Seconds**

Options :

1. Ovule

2. Ovary

3. Endosperm

4. Zygote

Solution :

The correct answer is **option 3** i.e. **Endosperm.**

- In seeds of flowering plants, the embryo is surrounded by a nutritive tissue called **endosperm.**
- Embryo and endosperm are derived from individual fertilization events and develop embedded in maternal tissues that form the seed coat. The endosperm serves as the source of food material to the growing embryo and also for the seedling.

Question 9 :

The mean height of 25 boys in a class is 150 cm and the mean height of 35 girls in the same class is 145 cm. The combined mean height of 60 students in the class is_____ (approximately)

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 143
2. 145
3. 146
4. 147

Solution :

The correct answer is **option 4** i.e. **147.**

Mean height of 25 boys = 150 cm

Sum of boys' heights = 25 × 150 = 3750 cm

Mean height of 35 girls = 145 cm

Sum of girls' height = 35 × 145 = 5075 cm

So combined mean = $\dfrac{3750 + 5075}{60}$

= 147.08 cm or 147 cm

Question 10 :
Mr. X starts from point 'A' travels 80 km towards West, takes a left turn, travels 50 km and reaches point 'B'. What is the shortest distance between points 'A' and 'B'?

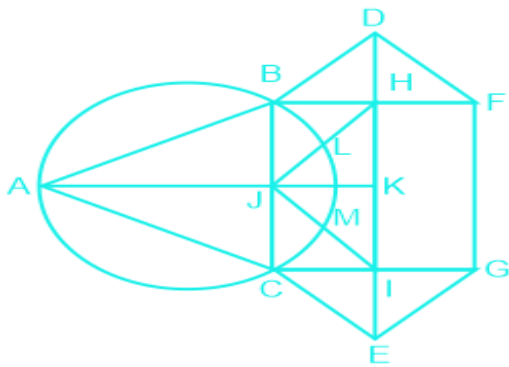**Difficulty : Moderate**

Average Time : 46 Seconds

Options :

1. 10 93
2. 10 39
3. 10 98
4. 10 89

Solution :

The correct answer is **Option 4** i.e. **10 89**

We'll use Pythagoras' theorem to find the shortest distance between A & B

From the figure

$(AB)^2 = (OB)^2 + (OA)^2$

$(AB)^2 = (50)^2 + (80)^2$

$(AB)^2 = 2500 + 6400$

$(AB)^2 = 8900$

$(AB) = 8900$

AB = 1089

Hence, the correct answer is **1089**

Question 11 :
Which of the answer figures is the correct water image for the given problem figure?

Difficulty : Moderate

Average Time : 56 Seconds

Options :
1. C
2. A
3. B
4. D

Solution :
The correct answer is **Option 1** i.e. **C.**

In the water image, only the top and bottom part of the image gets interchanged and there is no change in right or left. So in option C, we see an image in which there are no changes on the left or right but the top and bottom part has been

interchanged.

Hence, the correct answer is **Option 1.**

Question 12 :
The main cause of rancidity in foods is the _____ of fats and oils.

Difficulty : Moderate

Average Time : 54 Seconds

Options :
1. Hydrolysis
2. Oxidation
3. Clarification
4. Reduction

Solution :
The correct answer is **option 2** i.e. **Oxidation.**

- The main cause of rancidity in foods is the **oxidation** of fats and oils.
- Rancidity is the condition in which incomplete oxidation or hydrolysis of fats and oils takes place that spoils the food. Rancidity occurs when food is exposed to light, air, moisture or to any bacterial action.

Question 13 :
Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements. Statements: People think that paying tax to the government is of burden and waste. Hence, they avoid paying tax or don't pay tax promptly. Conclusions : 1. Government should create awareness among the people that paying tax helps to build nation. 2. Tax should be increased so that more money is collected.

Difficulty : Moderate

Average Time : 61 Seconds

Options :
1. Both 1 and 2 follows.
2. Only conclusion 1 follows.
3. Neither 1 nor 2 follows.

Only conclusion 2 follows.

Solution :

The correct answer is **option 2** i.e. **Only conclusion 1 follows.**

Statements:

People think that paying tax to the government is of burden and waste. Hence, they avoid paying tax or don't pay tax promptly.

Conclusions :

1. Government should create awareness among the people that paying tax helps to build nation. **Follows** (As people think that paying tax is a burden or waste so government should create awareness about it. This way it follows the statement)

2. Tax should be increased so that more money is collected. **Doesn't follow** (This information is not given in the statement so it does not follow)

Hence, the correct answer is **Only conclusion 1 follows.**

Question 14 :
Which state government has made yoga guru Ramdev Baba as the brand ambassador of Yoga and Ayurveda?

Difficulty : Moderate   **Average Time : 67 Seconds**

Options :

1. Haryana

2. Uttar Pradesh

3. Himachal Pradesh

4. Rajasthan

Solution :

The correct answer is **option 1** i.e. **Haryana.**

- â€‹â€‹â€‹â€‹The BJP government in Haryana, with an ambitious plan to promote yoga and ayurveda, appointed yoga guru Ramdev as it's brand ambassador.
- The emphasis on yoga and ayurveda would lead to an amalgamation of tradition and modernity and inclusion of yoga in the school syllabus would turn Haryana into a model state based on Indian values and traditions.

Question 15 :
Choose the correct alternative which will complete the series. ACT, EGG, INK _____

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. BYE

2. OLD

3. FUN

4. DIP

Solution :

The correct answer is **option 2** i.e. **OLD.**

Logic: Here the words start with the vowels in alphabetical order.

ACT, EGG, INK

So, the next word should start with O.

Hence, the next word in the series is OLD.

Hence, the correct answer is **OLD.**

Question 16 :

Consider the argument and decide which of the given assumptions is/are implicit. Argument : Public smoking is an offence under the law. Assumption : 1. Smoking is injurious to the health of the person who smokes. 2. Smoke is injurious even to others health in public places.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Both1 and 2 are implicit

2. Neither 1 nor 2 is implicit

3. Only assumption 2 is implicit

4. Only assumption one is implicit

Solution :

The correct answer is **Option 3** i.e. **Only assumption 2 is implicit.**

Argument :

Public smoking is an offence under the law.

Assumption :

1. Smoking is injurious to the health of the person who smokes. **Not implicit** (As the statement says about public smoking and the law about public smoking thus, this is not implicit)

2. Smoke is injurious even to others health in public places. **Implicit** (As the statement says about public smoking and the law about public smoking thus, this is implicit)

Hence, the correct answer is **Only assumption 2 is implicit.**

Question 17 :
If a + b + c =0, then (a3 + b3 + c3)2 = ?

Difficulty : Moderate   **Average Time : 61 Seconds**

Options :
1. $3a^2b^2c^2$
2. $9a^2b^2c^2$
3. 9abc
4. 27abc

Solution :
The correct answer is **option 2** i.e. $9a^2b^2c^2$**.**

a + b + c = 0

cubing on both sides

$(a + b + c)^3 = 0^3$

$a^3 + b^3 + c^3 + 3(a + b + c)(ab + ac + bc) - 3abc = 0$

$a^3 + b^3 + c^3 + 3(0)(ab + ac + bc) - 3abc = 0$

$a^3 + b^3 + c^3 + 0 - 3abc = 0$

$a^3 + b^3 + c^3 = 3abc$

on squaring both sides

$(a^3 + b^3 + c^3)^2 = (3abc)^2$

$(a^3 + b^3 + c^3)^2 = 9a^2b^2c^2$

Question 18 :

The given data shows the registration of bikes and total vehicles (in thousands) for 6 months in 2017 in city X. Note : in the chart, the first number represents bikes end the second number represents total vehicles. Based on the given data from January to April 2017, the increase in the registration of vehicles other than bikes is _____ .

Difficulty : Moderate   **Average Time : 86 Seconds**

Options :

1. 8000

2. 9050

3. 8500

4. 9000

Solution :

The correct answer is **option 4** i.e. **9000.**

Registration of vehicles other than bikes in January 2017 = 27000 - 21000 = 6000

Registration of vehicles other than bikes in April 2017 = 35000 - 20000 = 15000

So the increase in the registration of vehicles other than bikes in April 2017 as compared to January 2017 = 15000 - 6000

= 9000

Question 19 :

'Madhya Pradesh' is related to 'Diamond' in the same way as 'Karnataka' is related to _____.

Difficulty : Moderate   **Average Time : 42 Seconds**

Options :

1. Silver

2. Platinum

3. Gold

Copper

Solution :

The correct answer is **Option 3** i.e. **Gold.**

Diamonds are mined in Madhya Pradesh likewise gold is mined in Karnataka.

Hence, the correct answer is Karnataka.

Question 20 :

If cot4 + cot2 = 3, then cosec4 - cosec2 = ?

Difficulty : Moderate   **Average Time : 36 Seconds**

Options :

1. 2

2. 0

3. 1

4. 3

Solution :

The correct answer is **option 4** i.e. **3.**

$\cot^4 + \cot^2 = 3$

$\cot^2(\cot^2 + 1) = 3$

$\cot^2 . \csc^2 = 3$ ....(1) $(\cot^2 + 1 = \csc^2)$

$\csc^4 - \csc^2 = ?$

$\csc^2(\csc^2 - 1) = ?$

$\csc^2 \cot^2 = ?$ $(\csc^2 - 1 = \cot^2)$

$3 = ?$

Question 21 :

To draw a pair of tangents 2 a circle which are inclined 2 each other at degree an angle of 75⁰, it is required to draw tangents at the end points of those two redii of the circle, the angle between whom is
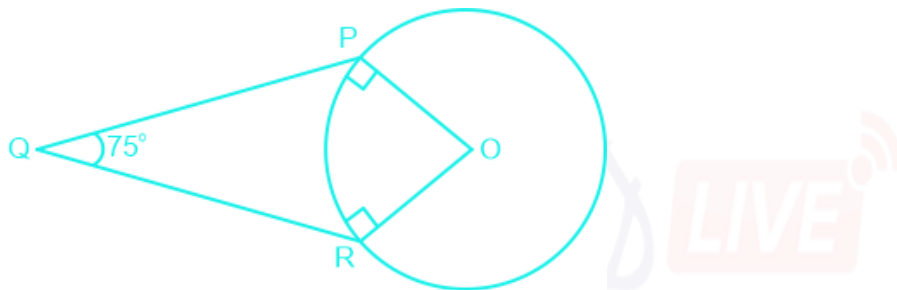
Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. 65⁰
2. 75⁰
3. 95⁰
4. 105⁰

Solution :

The correct answer is **option 4** i.e. **105⁰.**

QP & QR are tangents that are drawn from an external point Q to the circle.

The radius is perpendicular to the tangent at the point of contact

So, OPQ = ORQ = 90°

In OPQR,

PQR + OPQ + POR + QRO = 360°

75° + 90° + POR + 90° = 360°

POR = 360° - 255°

POR = 105°

So the angle between the two radius OP & OR is 105°

Question 22 :

In a computer game a builder can build a wall in ten hours while a destroyer can demolish search of all completely in fourteen hours. Both, the builder and the destroyer were initially set to work together on level ground. But after 7 hours the destroyer was taken out. What was the total time (in hours) taken to build the wall?

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. 15
2. 17
3. 24
4. 35

Solution :
The correct answer is **option 1** i.e. **15.**

Calculations:

Total work (LCM of 10 and 14) = 70 units

Work done by builder = 70/10 = 7 units

Work done by destroyer = 70/14 = 5 units (negative)

Total work done in 1 hour = 7 - 5 = 2 units

Work done by both = 7 × 2 = 14 units

Remaining work = 70 - 14 = 56 units

Required time taken by builder = 56/7 = 8

Total time = 8 + 7 = 15 hours

Question 23 :
If you look into a mirror and find that the image (your reflection) is smaller than you then the type of the mirror is:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Plano - concave mirror
2. Concave mirror

Plane mirror

4. Convex mirror

Solution :

The correct answer is **option 4** i.e. **Convex mirror.**

- The **convex mirror** (diverging mirror) is a type curved mirror that reflects the light outwards and hence form virtual images. In convex mirror, the reflective surface bulges towards the light source.
- The convex mirror is generally used as a rearview mirror because it provides the maximum rear field of view and image formed is always erect.

Question 24 :
Solve the following: -1/4 {-45 -(-96) ÷ (-32)} = ?

Difficulty : Moderate   **Average Time : 49 Seconds**

Options :

1. 12

2. 10.5

3. -12

4. -10.5

Solution :

The correct answer is **option 1** i.e. **12.**

Concept used:

BODMAS rule

Calculations:

-1/4 {-45 -(-96) ÷ (-32)} = ?

(-1/4) × {-45 - (-96/-32)} = ?

(-1/4) × {-45 - 3} = ?

(-1/4) × -48 = ?

? = 12

Question 25 :

The following figure is embedded in one of the four answer figures. Which figure contains the problem figure?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. A

2. B

3. D

4. C

Solution :

The correct answer is **option 2** i.e. **B.**

We can clearly see that the given figure is embedded only in B.

Hence, the correct answer is option 2.

Question 26 :

If $3x^2 + ax + 4$ is perfectly divisible by $x - 5$, then the value of a is:

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. -12

2. -5

3. -15.8

4. -15.6

Solution :

The correct answer is **option 3** i.e. **-15.8.**

Calculations:

$3x^2 + ax + 4$ is perfectly divisible by $x - 5$

$3 \times 25 + 5a + 4 = 0$

$79 + 5a = 0$

$5a = -79$

$a = -15.8$

Question 27 :

Who among the following laid the foundation of chemical sciences by establishing two important laws of chemical combination?

Difficulty : Moderate   Average Time : 42 Seconds

Options :

1. Ernest Rutherford

2. Democritus

3. Joseph L. Proust

4. Antoine L. Lavoisier

Solution :

The correct answer is **option 4** i.e. **Antoine L. Lavoisier.**

- The Law of Conservation of Mass was elaborated by the French chemist Antoine Laurent Lavoisier in 1774, and it is one of the general chemical laws for reactions.
- The experimental studies conducted by Lavoisier led him to conclude that in a chemical reaction, which takes place in a closed system, the sum of masses of the reactants is equal to the sum of the masses of the products.

Question 28 :

Odisha often faces natural disasters due to _____ .

Difficulty : Moderate   Average Time : 50 Seconds

Options :

1. Earthquakes

2. Cyclones

3. Rainfall

4. Drizzle

Solution :

The correct answer is **option 2** i.e. **Cyclones.**

- The state of Odisha often faces cyclones due to the depression over Bay of Bengal.
- Yaas was a relatively strong and severe tropical storm that made landfall in Odisha in late May 2021 and caused significant damage in West Bengal.

Question 29 :
The below figure is embedded in one of the answer figures. Choose the correct figure containing the below figure.

Difficulty : Moderate   **Average Time : 44 Seconds**

Options :

1. D

2. B

3. C

4. A

Solution :

The correct answer is **option 2** i.e. **B.**

It can clearly be seen that the given figure is embedded in figure B only.

Hence, the correct answer is Option 2.

Question 30 :
Two pipes, when working one at a time, can fill a cistern in 3 hours respectively while a 3rd pipe can drain the cistern empty in 8 hours. All the three pipes were opened together when the cistern was 1/12 full. How long did it take for the system to be completely full?

Difficulty : Moderate   **Average Time : 53 Seconds**

Options :

1. 2 hours

2. 1 hour 45 minutes

2 hour 11 minutes

4. 2 hour 10 minutes

Solution :
The correct answer is **option 1** i.e. **2 hours.**

Calculations:

Total work (LCM of 3,4 and 8) = 24 units

Work done by pipe 1 in one hour = 24/3 = 8 units

Work done by pipe 2 in one hour = 24/4 = 6 units

Work done by pipe 3 in one hour = 24/8 = 3 units (negative)

Total work done in one hour = 8 + 6 - 3 = 11 units

Time required to complete 11/12th work = (11/12) × (24/11) = 2 hours

Question 31 :
A body of 4.0 kg is lying at rest. Under the action of a constant force, it gains a speed of 5 m/s. The work done by the force will be .

Difficulty : Moderate   **Average Time : 54 Seconds**

Options :
1. 20 J

2. 50 J

3. 30 J

4. 40 J

Solution :
The correct answer is **option 2** i.e. **50 J.**

- Here,
- Mass (m) = 4.0 kg
- Final Velocity (v) = 5 m/s and initial velocity (u) = 0 m/s
- According to the work-energy theorem,
- Work done = Change in KE
- W = A body of 4.0 kg is lying at rest. Under the action of a constant force, it gains a speed of 5 m/s. The work done

by the force will be A body of 4.0 kg is lying at rest. Under the action of a constant force, it gains a speed of 5 m/s. The work done by the force will be K.E

- Since initial speed is zero so the initial KE will also be zero
- Work done (W) = Final K.E = $1/2\ mv^2$
- W = 1/2 x 4 x 5^2
- W = 2 x 25
- **W = 50 J**

Question 32 :

A sum of money was invested at the rate of 7.5% simple interest per annum for 4 years. If the investment was for 5 years, the interest earned would have been â,¹ 375 more. What was the initial sum invested?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. â,¹ 4,500

2. â,¹ 5,000

3. â,¹ 3,750

4. â,¹ 4,750

Solution :

The correct answer is **option 2** i.e. **â,¹ 5,000.**

Calculations:

Simple interest = PRT/100 where

P = principal, R = rate and T = time

Interest earned for 5 years - interest earned for 4 years = 375

 (P × 7.5 × 5)/100 - (P × 7.5 × 4)/100 = 375

 37.5P/100 - 30P/100 = 375

 7.5P/100 = 375

 P = â,¹ 5,000

Question 33 :

There are saplings of 361 mango trees and neem trees in a garden. The ratio of the number of a mango trees to that of neem tree saplings is 8 : 11, then how many neem trees saplings are in the garden?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 209
2. 152
3. 171
4. 57

Solution :

The correct answer is **Option 1** i.e. **209**

Calculations:

Let the number of Neem saplings be x.

The number of Mango saplings = 361 − x

The ratio of the number of Mango saplings to that of Neem saplings is 8 : 11,

$(361 − x)/x = 8/11$

$11(361 − x) = 8x$

$3971 − 11x = 8x$

$3971 = 19x$

$x = 209$

Trick: Neem saplings = 361 × 11/19 = 209

Question 34 :

Elements A, B & C occur as Dobereiner's triads. If the atomic mass of A is 7, atomic mass of C is 39, what will be the atomic mass of B?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 23
2. 12
3. 20

40

Solution :

The correct answer is **option 1** i.e. **23.**

- According to Dobereiner's law of triads, the atomic mass of the middle element of a triad is the arithmetic mean of the atomic masses of the other two elements.
- Here,
- Atomic. wt. of A = 7
- At. wt. of C = 39
- At. wt. of B = At. wt. of A+At. wt. of C/2 = 7+39/2 = 23
- At. wt. of B = **23** i.e average of weight of A and C.

Question 35 :

Choose the correct mirror image of the problem figure if the mirror if placed to the right of the figure.

Difficulty : Moderate   Average Time : 52 Seconds

Options :

1. A

2. D

3. C

4. B

Solution :

The correct answer is **option 4** i.e. **B.**

In the mirror image, only the left and right part of the image gets interchanged and there is no change in the top or bottom. So in B, we see an image in which there are no changes on the top or bottom but the left and right part has been interchanged.

Hence, the correct answer is **B.**

Question 36 :

Which of the fractions given below, when added to 5/8, gives 1?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 6/24
2. 5/2
3. 6/16
4. 6/3

Solution :

The correct answer is **option 3** i.e. **6/16.**

Calculations:

Let the fraction be x

According to the question,

x + 5/8 = 1

x = 1 - 5/8 = 3/8

Now according to the option the resultant fraction is similar to 6/16.

Question 37 :

The surface areas of three faces of a cuboid sharing a vertex are 20 m², 32 m² and 40 m². What is the volume of the cuboid?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 92 m³
2. 3024 m³
3. 160 m³
4. 184 m³

Solution :

The correct answer is **Option 3** i.e. **160 m³.**

Calculations:

Volume of cube = lbh, where

l = length, b = breadth and h = height

l × b = 20   ----- (1)

b × h = 32   ----- (2)

l × h = 40   ----- (3)

Multiplying equation (1), (2) and (3), we get

$l^2 b^2 h^2$ = 25600

lbh = 160

Question 38 :
An object with a mass of 22 kg moving with a velocity of 5 m/s possesses a kinetic energy of:

Difficulty : Moderate   **Average Time : 57 Seconds**

Options :
1. 275 J

2. 110 J

3. 1100 J

4. 2750 J

Solution :
The correct answer is **Option 1** i.e. **275 J**.

- Here, the Kinetic energy is given as
- K.E = 1/2 × m V2
- Where
- K.E= Kinetic Energy
- m= Mass of the object
- V= Velocity of an object
- Given that, m= 22 kg, v= 5 m/s
- Therefore, K E = 1/2 × 22 x 5^2
- K.E = **275 J**

Question 39 :

Which of the following is a reducible fraction?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. $91\over 15$
2. $79\over26$
3. $105\over112$
4. $41\over17$

Solution :
The correct answer is **Option 3** i.e. $105\over112$.

Question 40 :

(2over3) of a milk-water mixture was milk. There was 21 litres of the mixture. If 4 litres of water is added to it, the percentage of milk in the new mixture will be:

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 44
2. 56
3. 14
4. 11

Solution :
The correct answer is **Option 2** i.e. **56**.

Given:

$2\over3$ of a milk-water mixture was milk.

There was 21 litres of the mixture.

Calculations:

Volume of milk = (2/3) × 21 = 14

Volume of water = (1/3) × 21 = 7

Now according to the question,

New volume of water = 7 + 4 = 11

New total volume = 21 + 4 = 25

Volume of milk remains the same

Required percentage of milk = (14/25) × 100 = 56%

Question 41 :
Choose the correct water image of the problem figure.

Difficulty : Moderate   Average Time : 50 Seconds

Options :
1. D
2. B
3. A
4. C

Solution :
The correct answer is **Option 4** i.e. **C**.

In the water image, only the top and bottom part of the image gets interchanged and there is no change in right or left.

So, the correct water image would be

Hence, **C** is correct.

Question 42 :
The Dadasaheb Phalke Award is awarded for significant public achievement in which field?

Difficulty : Moderate   Average Time : 48 Seconds

Options :

1. Films
2. Journalism
3. Literature
4. Sports

Solution :

The correct answer is **Option 1** i.e. **Films**.

- The Dadasaheb Phalke Award was instituted in 1969 when presented to Devika Rani, the Dadasaheb Phalke Award was introduced by the Government of India to commemorate Dadasaheb Phalke's contribution to Indian cinema.
- Honoured with the highest award in the field of **cinema,** the recipients are recognized for their outstanding contribution to the growth and development of Indian cinema.

Question 43 :

The value of (-261+(-380)-(-521)+821-(-121)) is:

Difficulty : Moderate   **Average Time : 48 Seconds**

Options :

1. 800
2. 825
3. 822
4. 833

Solution :

The correct answer is **Option 3** i.e. **822.**

Concept used:

BODMAS rule

Calculations:

-261 - 380 + 521 + 821 + 121

822

Question 44 :

The resistance of a conductor is inversely proportional to its:

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. temperature
2. resistivity
3. area of cross section
4. length

Solution :

The correct answer is **Option 3** i.e. **area of cross section**.

- The resistance of a wire is directly proportional to its length and inversely proportional to its **cross-sectional area.** Resistance also depends on the material of the conductor.
- Resistance in electricity involves collisions of the current-carrying charged particles with fixed particles that make up the surface of the conductors.

Question 45 :
Which of the following is essential for the synthesis of thyroxin?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Potassium
2. Sodium
3. Calcium
4. Iodine

Solution :

The correct answer is **Option 4** i.e. **Iodine**.

- **Iodine** is a crucial micronutrient for thyroid hormone synthesis and must be provided through dietary sources.
- Thyroid hormone is required for normal growth and development. The regulation of thyroid hormone production and metabolism allows for adequate thyroid hormone action in tissues, despite significant fluctuations in iodine supply.

Question 46 :
The girth of the stem or root in plants increases due to:

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Lateral meristem

2. Intercalary meristem

3. Extra meristem

4. Apical meristem

Solution :

The correct answer is **Option 1** i.e. **Lateral meristem**.

- The girth of the stem or root in plants increases due to **Lateral meristem.**
- Lateral meristems facilitate growth in a maturing plant. Lateral merstems are a type of meristematic tissue present in the plant's lateral parts, hence responsible for the lateral growth of the plants.
- They are mostly present in the organs of dicotyledons and gymosperms.

Question 47 :

Consider the given question and decide which of the following statements is sufficient to answer the question. Who among P, Q, R, S and T is lightest in weight? Statements: Q weight P and S weight > T R weight > Q but T

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Statement 2 alone is sufficient while statement 1 alone is insufficient

2. Both statement 1 and 2 are sufficient

3. Neither statement 1 nor 2 is sufficient

4. Statement 1 alone is sufficient while statement 2 alone is insufficient

Solution :

The correct answer is **Option 2** i.e. **Both statements 1 and 2 are sufficient**.

Statements:

1. Q weight P and S weight > T
2. R weight > Q but T

 For comparing weight between Q, P, S, T, and R. A sequence of weight is mandatory and both statements are needed to compare among them. Q is lighter among them and both statements are sufficient for it.

1) P > S > T > R > Q

2) S > P > T > R > Q

Hence, the correct answer is **Both statements 1 and 2 are sufficient**.

Question 48 :
Which of the following metals is stored in kerosene oil?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Platinum

2. Copper

3. Sodium

4. Gold

Solution :
The correct answer is **Option 3** i.e. **Sodium**.

- **Sodium** is a highly reactive metal. When it reacts with oxygen in air at room temperature, it is highly exothermic.
- Inorder to prevent this, sodium is kept preserved under kerosene. Sodium does not react with kerosene.

Question 49 :
The following table gives the details of the number of students in Class 10 section A and B who had taken mid-term and final exam. The percentage of students in section A is _____ (round to one decimal).

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 51

2. 51.1

3. 51.3

4. 51.2

Solution :
The correct answer is **Option 2** i.e. **51.1**.

Calculations:

Number of students in section A = 28 + 14 + 6 + 64 = 112

Number of students in section B = 23 + 12 + 17 + 55 = 107

Total students = 112 + 107 = 219

Required percentage = (112/219) × 100 = 51.1

Question 50 :
Which Indian Chief Minister's father was a 'Maharaja'?

Difficulty : Moderate   **Average Time : 37 Seconds**

Options :

1. Chandrababu Naidu

2. Devandra Fadnavis

3. K Chandrasekhar Rao

4. Amarinder Singh

Solution :
The correct answer is **Option 4** i.e. **Amarinder Singh**.

- **Amarinder Singh** is an Indian politician, military historian, former royal and Indian Army veteran who served as the 15th Chief Minister of Punjab.
- His father was the last Maharaja of the princely state of Patiala.

Question 51 :
Which eminent Hindi writer was chosen for the Vyas Samman 2017 for her work 'Dukham Sukham'?

Difficulty : Moderate   **Average Time : 44 Seconds**

Options :

1. Namita Gokhale

2. Meena Kandasamy

3. Jhumpa Lahiri

4. Mamta Kalia

Solution :
The correct answer is **Option 4** i.e. **Mamta Kalia**.

Mamta Kalia, a distinguished Hindi writer was honoured with the esteemed literary award Vyas Samman for the year 2017.

- Vyas Samman is a literary award in India since 1991 and is awarded annually by the K.K Birla Foundation. To be eligible for the award, the literary work must be written in Hindi language and have been published in the past 10 years.

Question 52 :

The two sides holding the right-angle in a right-angled triangle are 3 cm and 4 cm long. The area of its circumcircle will be:

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 5 cm²

2. 7 cm²

3. 6.75 cm²

4. 6.25 cm²

Solution :

The correct answer is **Option 4** i.e. **6.25 cm²**.

Formula used:

Pythagoras theorem:

$\text{Hypotenuse}^2 = \text{Base}^2 + \text{Perpendicular}^2$ ----- (1)

Area of circle = r^2 ------ (2)

Calculations:

Using equation (1), we get

Length of hypotenuse = $(3^2 + 4^2)^{1/2} = 5$

Radius of circumcircle = 5/2 = 2.5

Using equation (2),

$\times (2.5)^2 = 6.25$

Question 53 :

Who won the 2017 Hridaynath Mangeshkar Award?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Javed Akhtar

2. Asha Bhosle

3. Shabana Azmi

4. Anupam Kher

Solution :

The correct answer is **Option 1** i.e. **Javed Akhtar**.

- Veteran writer-lyricist **Javed Akhtar** has been honoured with the Hridaynath Mangeshkar Award in 2017.
- Hridaynath Mangeshwar Award was established in 2011 by Mumbai based socio-culltural organisation Hridayesh Art in honour of music composer and singer Hridaynath Mangeshkar. It felicitates and recognises successful individuals across the country from various walks of life.

Question 54 :

To convert temperature from Celsius to Kelvin scale, you must:

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. multiply the given temperature by 273

2. add 273 to the given temperature

3. divide the given temperature by 273

4. subtract 273 from the given temperature

Solution :

The correct answer is **Option 2** i.e. **add 273 to the given temperature**.

- Inorder to convert temperature from Celsius to Kelvin scale we must add â€‹â€‹â€‹â€‹273to the given temperature.
- Zero in Celsius scale is equivalent to 273 in Kelvin scale.
- For example, 5 degree Celsius is equal to 278 K (5+273= 278K)

Question 55 :

A body of mass 2 kg is thrown upward with initial velocity of 20 m/s. After 2 seconds, its kinetic energy will be: (g= 10 m/s²)

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 100 J
2. 0 J
3. 400 J
4. 200 J

Solution :

The correct answer is **Option 2** i.e. **0 J**.

- Given
- u = 20 m/s, t= 2sec and g= 10 m/s^2
- On putting the above formula, we get,
- v = 20-10×2 = 0
- Using, K.E. = 1/2 mv^2
- Where, K.E. = Kinetic Energy of the body
- m = mass of the body
- v = velocity of the body
- On putting the values, we get K.E. = 1/2 × 2 x 0 = **0 J.**
- Therefore, the kinetic energy of the body of mass 2 kg is zero.

Question 56 :

Select the odd figure out of the following figure series.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 4
2. 1
3. 2
4. 5

Solution :

The correct answer is **Option 4** i.e. **5**.

Logic: Count the number of lines needs to form the particular letter.

For A, F, I, and Z, 3 lines are needed. But for 'L' 2 lines are needed. Thus, L is odd from these.

Hence, the correct answer is **5.**

Question 57 :
If the number 1 on the clock is replaced by the letter 'M' , the number 2 is replaced by 'N' and so on, then when the time is 21:00 p.m. the hour hand will be at _____ letter.

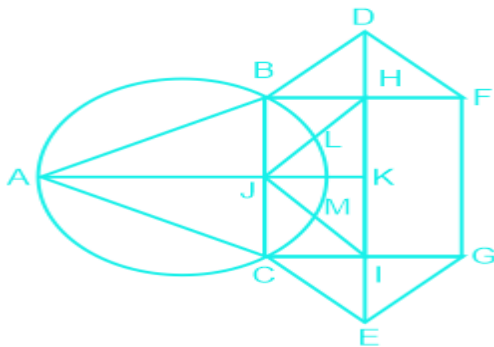Difficulty : Moderate   Average Time : 48 Seconds

Options :
1. S
2. T
3. U
4. V

Solution :
The correct answer is **Option 3** i.e. **U**.

As we know, in the 12-hour clock, 21:00 indicates 9 pm. At 9:00 pm hour hand will be at 9. If 1 on the clock is M and 2 is N then 9 will be U.

Thus, when the time is 21:00 the hour hand will be at letter U.

Hence, the correct answer is U.

Question 58 :
Find the missing term in the letter series. BGL, DIN, _____, HMR

Difficulty : Moderate   Average Time : 51 Seconds

Options :

1. FKP
2. FPK
3. EJO
4. GLQ

Solution :

The correct answer is **Option 1** i.e. **FKP**.

Given series:

BGL, DIN, _____, HMR

Logic: Adding to letters forward

B + 2 = D, G + 2 = I, L + 2 = N

Similarly, D + 2 = **F**, I + 2 = **K**, N + 2 = **P**

We can check it,

F + 2 = H, K + 2 = M, P + 2 = R

Hence, the correct answer is **FKP.**

Question 59 :
Sharan and Mayukh, working together, can complete a task in 18 days. However, Mayukh works alone and leaves after completing one-third of the task. Then, Sharan takes over and completes the remaining work by himself. As a result, the duo could complete the task in 40 days. How many days would Sharan alone have taken to do the job if Mayukh had worked faster than Sharan?

Difficulty : Moderate   **Average Time : 62 Seconds**

Options :

1. 45
2. 30
3. 72
4. 24

Solution :

The correct answer is **Option 1** i.e. **45**.

Given:

Sharan and Mayukh, working together, can complete a task in 18 days.

However, Mayukh works alone and leaves after completing one-third of the task.

Then, Sharan takes over and completes the remaining work by himself.

As a result, the duo could complete the task in 40 days

Calculations:

Total work (LCM of 40 and 18) = 360 units

Let the work done by mayukh be x and sharan be y

Work done by mayukh and sharan in one day = x + y = 360/18 = 20 units

Time taken by mayukh to complete 1/3rd work = 120/x

Time taken by Sharan to complete remaining work = 240/y

Total time taken = 40 days

$120/x + 240/x = 40$

$120/(20 - y) + 240/y = 40$

$120y + 240(20 - y) = 40y(20 - y)$

$3y + 120 - 6y = 20y - y^2$

$y^2 - 23y + 120 = 0$

$(y - 15)(y - 8) = 0$

$y = 8, 15$

Time required by sharan alone = 360/8 = 45 days.

Question 60 :
Decide which of the conclusions logically follow(s) from the information given in the statement. Statements: Politicians marry only beautiful girls. X is beautiful. Conclusions: 1. X will marry a politician 2. X won't marry a politician

Difficulty : Moderate   **Average Time : 85 Seconds**

Options :

Only conclusion 1 follows

2. Only conclusion 2 follows

3. Either 1 or 2 follows

4. Both 1 and 2 follow

Solution :

The correct answer is **Option 3** i.e. **Either 1 or 2 follows**.

Statements:

Politicians marry only beautiful girls. X is beautiful.

Conclusions:

1. X will marry a politician

2. X won't marry a politician

Explanation: It is clear from the statement that politicians marry only beautiful girls and X is beautiful. Now, it depends on "X" only if X will marry or will not marry a politician. So, if conclusion 1 is true then 2 will definitely false and vice-versa.

Thus, either 1 and 2 follows for these conclusions.

Hence, the correct answer is **Either 1 or 2 follows.**

Question 61 :

Three-fifths of my current age is the same as five-sixths of that of one of my cousins'. My age ten years ago will be his age four years hence. My current age is _____ years.

Difficulty : Moderate   **Average Time : 68 Seconds**

Options :

1. 55

2. 45

3. 60

4. 50

Solution :

The correct answer is **Option 4** i.e. **50**.

Let my current age = x years and my cousin's age = y years.

Three-fifths of my current age is the same as five-sixths of that of one of my cousins',

$3x/5 = 5y/6$

$18x = 25y$

My age ten years ago will be his age four years hence,

$x - 10 = y + 4$

$y = x - 14,$

$18x = 25(x - 14)$

$18x = 25x - 350$

$7x = 350$

$x = 50$ years So, my current age is 50 years.

Hence, the correct answer is **50.**

Question 62 :

'Food' is related to 'Refrigerator' in the same way as 'Clothes' is related to _____.

Difficulty : Moderate   **Average Time : 56 Seconds**

Options :

1. Garage

2. Closet

3. Fold

4. Material

Solution :

The correct answer is **Option 2** i.e. **Closet**.

As food is kept in the refrigerator likewise clothes are kept in the closet.

Hence, the correct answer is **Closet.**

Question 63 :

Which of the following never occurs singly in nature?

Difficulty : Moderate   **Average Time : 37 Seconds**

Options :

1. Inertia

Force

3. Momentum

4. Velocity

Solution :
The correct answer is **Option 2** i.e. **Force**.

- Newton's Third Law of Motion states that a **force** can never occur singly in nature.
- A force is a push or pull that acts upon an object as a result of its interaction with another object. Forces results from interactions. According to Newton, whenever objects A and B interact with each other, they exert forces upon each other.

Question 64 :
Which of the numbers given below is NOT rational?

Difficulty : Moderate   **Average Time : 47 Seconds**

Options :
1. $\sqrt{64}$

2. $\sqrt[3]{64}$

3. $\sqrt[3]{8}$

4. $\sqrt{8}$

Solution :
The correct answer is **Option 4** i.e. **8**.

By checking from options,

By option 1,

$\sqrt{64} = \sqrt{(8^2)} = 8$

By option 2,

$\sqrt[3]{64} = \sqrt[3]{(4^3)} = 4$

By option 3,

$\sqrt[3]{8} = \sqrt[3]{(2^3)} = 2$

By option 4,

$8 = (2^3) = 2^{3/2}$ This will be an irrational number.

Question 65 :

Which of the following gases is not generated in a biogas plant?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. CO

2. H_2S

3. CH_4

4. CO_2

Solution :

The correct answer is **Option 1** i.e. **CO**.

- Biogas is a mixture of gas consisting primarily of methane, carbon dioxide and hydrogen sulphide, produced from raw materials such as agricultural waste, manure, plant material, swage, green waste and food waste.
- **CO (Carbon Monoxide)** is not generated in a biogas plant becasue it is highly toxic in nature. It combines with haemoglobin present in blood and forms carboxyhemoglobin complex.

Question 66 :

Name the Indian paralympic high jumper who won gold at the Rio Paralympics. He was awarded the Padma Shri in 2017.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Narender Ranbir

2. Varun Bhati

3. Mariyappan Thangavelu

4. Devendra Jhajharia

Solution :

The correct answer is **Option 3** i.e. **Mariyappan Thangavelu**.

- **T. Mariappan Thangavelu** cracked the 1.89 m mark to win the gold at the Rio Paralympics high jump T-42 event.
- He also became the first Indian to win the yellow medal at the Paralympic event, bettering the performance of compatriot Girisha Hosanagara Nagarajegowda, the London Paralympics silver medal winner in the same event.

Question 67 :

Which was the first country to introduce GST in its system?

Difficulty : Moderate   **Average Time : 48 Seconds**

Options :

1. Canada

2. France

3. Australia

4. Germany

Solution :

The correct answer is **Option 2** i.e. **France**.

- The first country in the world to introduce the GST system in 1954 was France.
- The GST (Goods and Services Tax) was implemented to reduce tax evasion. Since then, over 160 countries have implemented GST, with some countries having a dual GST model. For example Brazil and Canada.

Question 68 :

Chlorine gas is used in the manufacture of:

Difficulty : Moderate   **Average Time : 44 Seconds**

Options :

1. Baking powder

2. Baking soda

3. Bleaching powder

4. Washing soda

Solution :

The correct answer is **Option 3** i.e. **Bleaching powder**.

- Chlorine gas is used in the manufacture of **bleaching powder,** by passing chlorine gas over dry slaked lime.
- The chemical name of bleaching powder is Calcium Hypochloride and its chemical formula is $CaOCl_2$.

Question 69 :

If the atomic number of Krypton is 36, then its electronic configuration is:

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 2,18,16

2. 2,8,18,8

3. 2,18,8,8

4. 2,8,20,6

Solution :

The correct answer is **Option 2** i.e. **2,8,18,8**.

- Krypton is a chemical element with the symbol Kr and atomic number 36. It is a colourless, odorless and tasteless noble gas that occurs in trace amounts in the atmosphere and is often used with other rare gases in flourescent lamps.
- The electronic configuration (electrons per shell) of Krypton are **2(K), 8(L),18(M) and 8(N)** and electronic configuration (electrons per sub-shell) is [Ar] 3d10 4s2 4p6.

Question 70 :

Consider the argument and decide which of the given assumptions is/are implicit. Argument: The BEST bus travel company has decided to increase its fare by 10%. Assumptions: 1. Passengers may opt for other buses costing less than the BEST bus travel company. 2. The demand for buses by passengers may remain unchanged even after the fare hike.

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Both 1 and 2 are implicit

2. Only assumption 2 is implicit

3. Only assumption 1 is implicit

4. Neither 1 nor 2 is implicit

Solution :

The correct answer is **Option 1** i.e. **Both 1 and 2 are implicit**.

Given Argument:

The BEST bus travel company has decided to increase its fare by 10%.

Assumptions:

1. Passengers may opt for other buses costing less than the BEST bus travel company.

2. The demand for buses by passengers may remain unchanged even after the fare hike.

Explanation: Both assumptions are strong to implicit because it totally depends on passengers the choice to choose the bus irrespective of fare hike. If passengers like the facility of the bus they will choose to travel on it.

Hence, the correct answer is **Option 1.**

Question 71 :
Rs 750 invested for 3 months gave an interest of Rs 18. What was the simple rate of interest per annum?

Difficulty : Moderate   **Average Time : 64 Seconds**

Options :

1. 2.4%

2. 9.6%

3. 7.2%

4. 12%

Solution :
The correct answer is **Option 2** i.e. **9.6%**.

Given:

Rs 750 invested for 3 months gave an interest of Rs 18.

Formula used:

Simple interest = PRT/100   ---- (1)

P = Principal, R = rate and T = time

Calculations:

Using equation (1)

$18 = (750 \times R \times 1/4)/100$

$18 = 1.875R$

$R = 9.6\%$

Question 72 :
Select the odd figure out of the given series.
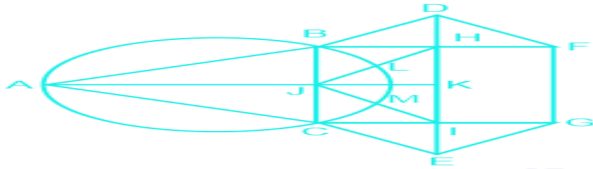
Difficulty : Moderate

Average Time : 45 Seconds

Options :

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

Solution :

The correct answer is **Option 1** i.e. **(c)**.

Only option (c) has 2 dots so this is odd from the series.

Hence, the correct answer is option 1.

Question 73 :

How many triangles are present in the following figure?

Difficulty : Moderate
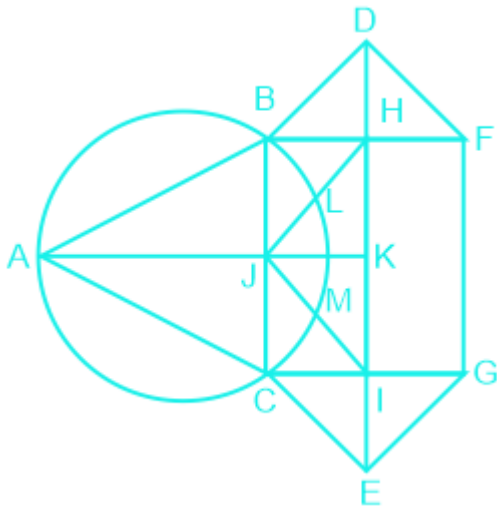
Average Time : 41 Seconds

Options :

1. 12
2. 15
3. 14
4. 13

Solution :

The correct answer is **Option 3** i.e. **14**.

The figure may be labelled as shown

First, start with the simple triangles in the figure then combine triangles.

The simplest triangles are ABJ, ACJ, BDH, DHF, CIE, and GIE

= 6 triangles

The triangles made up of two triangles (combined triangles) are ABC, BDF, CEG, BHJ, JHK, JKI and CJI

= 7 triangles

There is only one triangle JHI which is composed of four components.

Thus, 6 + 7 + 1 = 14 triangles are in the figure.

Hence, the correct answer is **14.**

Question 74 :
Metals reacts with acids to give:

Difficulty : Moderate   **Average Time : 58 Seconds**

Options :
1. A salt and Chlorine

2. A salt and base

3. A salt and Hydrogen

4. A salt and water

Solution :

The correct answer is **Option 3 i.e. A salt and Hydrogen**.

- **Salt and Hydrogen gas** are formed by a reaction known as displacement reaction, when metal reacts with acids. For example, when Sodium (Na) reacts with hydrochloric acid (HCl), sodium chloride (NaCl) and hydrogen gas (H_2) form.
- On the other hand, non metals do not react with acids because non-metals are themselves acceptors of electrons. Hence, they cannot donate electrons to the hydrogen ion of the acid.

Question 75 :

If _____ is involved, even greater diversity will be generated.

Difficulty : Moderate   **Average Time : 53 Seconds**

Options :

1. sexual reproduction

2. binary fission

3. vegetative propagation

4. asexual reproduction

Solution :

The correct answer is **Option 1** i.e. **sexual reproduction**.

- **Sexual reproduction** provides genetic diversity because the sperm and egg that are produced contain different combinations of genes than the parent organisms.
- Sexual reproduction provides greater genetic diversity than asexual reproduction is through the process of fertilization or gamete fusion. Sexual reproduction involves meiosis, which is the process of a cell doubling its DNA, shuffling its genes, and then dividing the shuffled DNA among four cells.

Rrb Alp CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Alp CBT - 1 Previous Year Question Paper held on 2018-08-09 in the Afternoon exam is as follows:

1. 75 questions were moderate.
2. The safe score is 40 marks.
3. 75 questions were asked from CBT -1 and 75 questions were asked from CBT -1
4. 0 questions should have been skipped if you were short of time.

Rrb Alp CBT - 1 Previous Year Question Paper Topic Wise Weightage

CBT -1

Rrb Alp CBT - 1 Previous Year Question Paper Tips and Tricks

1. Try to solve Rrb Alp CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Alp CBT - 1 Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Rrb Alp CBT - 1 Previous Year Question Paper. She has guided her team to provide the best explanation for the question.