



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 2018-08-10 in the Evening 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 :

In $\triangle ABC$, $AB = 8$ cm. A is bisected internally to intersect BC at D . $BD = 6$ cm and $DC = 7.5$ cm. What is the length of CA ?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 12 cm
2. 12.5 cm
3. 10 cm
4. 10.5 cm

Solution :

The correct answer is **Option 3** i.e. **10 cm**.

$AB = 8$ cm, $BD = 6$ cm and $DC = 7.5$ cm

A is bisected internally to intersect BC at D

$$\left(\frac{AB}{AC} = \frac{BD}{CD}\right)$$

$$\left(\frac{8}{AC} = \frac{6}{7.5}\right)$$

$$AC = 10 \text{ cm}$$

Question 2 :

Consider the given question and decide which of the following statements is sufficient to answer the question. What is the

colour of the granite in the kitchen? Statements: The colour of the granite is the colour of the wall. The colour of the granite is very bright.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Both 1 and 2 are sufficient to answer the given question.
2. 2 alone is sufficient while 1 alone is not sufficient to answer the given question.
3. 1 alone is sufficient while 2 alone is not sufficient to answer the given question.
4. Neither 1 nor 2 is sufficient to answer the given question.

Solution :

The correct answer is **Option 4** i.e. **Neither 1 nor 2 is sufficient to answer the given question.**

Given Question: What is the colour of the granite in the kitchen?

Statements:

1. The colour of the granite is the colour of the wall: Not sufficient (This statement isn't telling anything about which color the granite is)
2. The colour of the granite is very bright: Not sufficient (This statement also isn't telling anything about which color the granite is)

When we combine statement 1 and 2 together, even then we do not get any information on the exact color of the granite.

Hence, neither statement 1 nor statement 2 is sufficient to answer the question.

Question 3 :

MABELA, MABLE, MABUSE, MABEPEARL, ? If the above given words are arranged in the dictionary then the last word is:

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. MABEPEARL
2. MABUSE
3. MABELA

MABLE**Solution :**

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

According to the dictionary order:

1. MABELA
2. MABEPEARL
3. MABLE
4. MABUSE

So, the last one is MABUSE.

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

Question 4 :

Ammonium nitrate, on thermal decomposition, produces:

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. N_2O and H_2O
2. NH_3 and NO_2
3. NH_3 and NO
4. N_2 and H_2O

Solution :

The correct answer is **Option 1** i.e. **N_2O and H_2O** .

- Ammonium nitrate (NH_4NO_3), on thermal decomposition, produces **N_2O** and **H_2O** .
- The result of the reaction is the formation of Nitrous Oxide (**N_2O**) and Water (**H_2O**)
- $NH_4NO_3 \rightarrow N_2O + 2H_2O$

Question 5 :

The amount of $BaSO_4$ formed on mixing an aqueous solution of 2.08 gm of $BaCl_2$ and excess of dilute H_2SO_4 is _____ . (atomic weights: Ba = 137, Cl = 35.5, S = 32, O = 16)

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 23.3 g
2. 2.08 g
3. 1.04 g
4. 2.33 g

Solution :

The correct answer is **Option 4** i.e. **2.33 g**.

$$\text{BaCl}_2 = (137 + 2 \times 35.5)/100 = 208/100 = 2.08 \text{ gm}$$

Similarly,

$$\text{BaSO}_4 = (137 + 32 + 4 \times 16)/100 = 233/100 = 2.33 \text{ gm}$$

Hence, the correct answer is **2.33 gm**.

Question 6 :

The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

Difficulty : Moderate**Average Time : 41 Seconds****Options :**

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

Solution :

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

It is clearly visible that the given figure is embedded in only D. Rest of them are wrong.

Hence, the correct answer is D.

Question 7 :

The Indian and Japanese Prime Ministers have recently signed a high-speed rail project deal that will connect Mumbai with which major city?

Difficulty : Moderate**Average Time : 41 Seconds**



Options :

1. Hyderabad
2. Bangalore
3. Ahmedabad
4. New Delhi

Solution :

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

- The Indian and Japanese Prime Ministers have recently signed a high-speed rail project deal that will connect Mumbai with **Ahmedabad**.
- It is expected that the train will be able to travel a 500-km distance between the two major cities in two hours compared to the seven taken by the current express train service.
- The introduction of Japan's bullet train system will not only contribute to the efficiency of the transportation network, promote economic development in the broad target areas but also boost the 'Make in India' initiative.

Question 8 :

Read the given question and decide which of the following argument(s) is/are correct. Hydrogen is in a cylinder. Argument 1: Hydrogen is in a liquid state. Argument 2: Hydrogen is in a gaseous state.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Only argument 1 is correct.
2. Neither argument 1 nor 2 is correct.
3. Only argument 2 is correct.
4. Either argument 1 or 2 is correct.

Solution :

The correct answer is **Option 4** i.e. **Either argument 1 or 2 is correct**.

Hydrogen is in a cylinder.

Argument 1: Hydrogen is in a liquid state.

Argument 2: Hydrogen is in a gaseous state.



Explanation: Hydrogen is in the cylinder, but it can be in either a liquid or gaseous state. If it is liquid then it can't be in the gaseous state. Thus, either argument 1 or 2 is correct.

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

Question 9 :

Name the type of mirror used in the headlight of vehicles:

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Concave mirror
2. Plane mirror
3. Convex mirror
4. Plano-convex mirror

Solution :

The correct answer is **Option 1** i.e. **Concave mirror.**

The mirror of headlights of vehicles scatters the rays of light to increase the area the light is propagated. A concave mirror has the property that the rays falling on it diverge.

Question 10 :

X leaves his house facing west, drives 100 km, then turns right and drives 100 km. He then turns left and drives 50 km. In which direction is X facing in relation to his starting point?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. South west
2. North east
3. South east
4. North west

Solution :

The correct answer is **Option 4** i.e. **North west.**

The diagram would be:



Thus X is in the north-west direction with respect to its start point.

Hence, the correct answer is **north-west**.

Question 11 :

How many kilometres are there in one metre?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 0.1
2. 0.001
3. 0.01
4. 0.0001

Solution :

The correct answer is **Option 2** i.e. **0.001**.

- There are **0.0001** kilometres in one metre.
- A kilometer, or kilometre, is a unit of length equal to 1,000 meters, or about 0.621 miles. It is the most common unit for measuring distance between places.

Question 12 :

If WASP STINGS HARD is coded as @%Z, HARD TO DEAL is coded as Z65 and HEAL LONG TIME is coded as 896, what is the code for HARD?



Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 9
2. 5
3. Z
4. @

Solution :

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

The given information can be represented as,

WASP STINGS HARD @%Z

HARD TO HEAL Z65

HEAL LONG TIME 896

If we compare 1st and 2nd statement then the only common letter is Z.

Thus, the code for HARD is Z.

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

Question 13 :

As per the given Venn diagram, the total number of students who play cricket as well as football but not Kabaddi is _____.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. R
2. T
3. V
4. P

Solution :

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



As per the given Venn diagram, the total number of students who play cricket as well as football but not Kabaddi is V.

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

Question 14 :

Which of the following can inhabit the most inhabitable habitats like hot springs, deep sea, thermal vents and ice in Antarctica?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Bacteria
2. Euglena
3. Viruses
4. Amoeba

Solution :

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

- **Bacteria** can inhabit the most inhabitable habitats like hot springs, deep sea, thermal vents and ice in Antarctica.
- They are able to survive in high temperatures (which far exceed 100°C) and can also withstand extremely cold temperatures and can survive in adverse situations.

Question 15 :

Ryaan is Vahaan's mother's sister's father's only son's son. How is Ryaan related to Vahaan?

Difficulty : Moderate

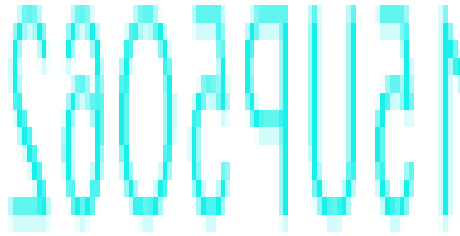
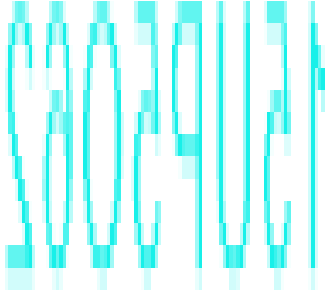
Average Time : 47 Seconds

Options :

1. Son
2. Nephew
3. Cousin
4. Uncle

Solution :

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



Thus, Ryaan is Vehaan's cousin.

Hence, the correct answer is a **cousin**.

Question 16 :

If the number $x4441$ is divisible by 11, what is the face value of x ?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

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

Solution :

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



For a number to be divisible by 11, the difference of alternative digits should be either 0 or divisible by 11.

For the number $x4441$,

So $(x + 4 + 1) - (4 + 4) = 0$ or $11n$ where n is any natural number.

$$(x + 5) - 8 = 0 \text{ or } 11n$$

$$x - 3 = 0 \text{ or } 11n$$

$$x = 3 \text{ or } 3 + 11n$$

From the provided options,

$$x = 3$$

Question 17 :

Select the appropriate combination of mathematical operators to be sequentially placed between the numbers given on the left of the following equation so that $LHS = RHS$. $5035 = 20$

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. $- + \times$
2. $+ \times -$
3. $+ - \times$
4. $\times + -$

Solution :

The correct answer is **Option 1** i.e. $- + \times$.

$$5 - 0 + 3 \times 5 = 20 \text{ Correct}$$

$$5 + 0 \times 3 - 5 = 0 \text{ 20 Incorrect}$$

$$5 + 0 - 3 \times 5 = -5 \text{ 20 Incorrect}$$

$$5 \times 0 + 3 - 5 = -2 \text{ 20 Incorrect}$$

Hence $- + \times$ is the correct sequence

Question 18 :

Find the first negative term of the below A.P. 129, 120, 111, 102,

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 16th term
2. 13th term
3. 15th term
4. 14th term

Solution :

The correct answer is **Option 1** i.e. 16th term.

129, 120, 111, 102,

Common difference(d) = -9

First term(a) = 129

$$\begin{aligned}T_n &= a + (n - 1)d \\ &= 129 + (n - 1)(-9) \\ &= 129 - 9n + 9 \\ &= 138 - 9n \\ &= -9n + 138 \\ &= 9n > 138 \\ &= n > 15.33\end{aligned}$$

So the first negative term of the given series is the 16th term.

Question 19 :

Which of the following gases turns lime water milky?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. CO₂
2. O₂
3. O₃

CO

Solution :

The correct answer is **Option 1** i.e. **CO₂**

- **Carbon dioxide (CO₂)** turns lime water milky.
- **Carbon dioxide** reacts with limewater which is a base to form a salt, calcium carbonate. form calcium carbonate, which precipitates out of the solution. Calcium carbonate is white and insoluble in water, which makes the water appear milky.

Question 20 :

A total amount of Rs.1560 is to be divided among A, B and C such that A gets 50% of what B gets and B gets 20% of what C gets. How much will B get?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Rs. 280
2. Rs. 540
3. Rs. 440
4. Rs. 240

Solution :

The correct answer is **Option 4** i.e. **Rs. 240**.

Let C gets Rs. x

then B would get 20% of x = $x/5$

A would get 50% of $x/5 = x/10$

According to question,

$$x/10 + x/5 + x = 1560$$

$$(10x + 2x + x)/10 = 1560$$

$$13x = 15600$$

$$x = 1200$$

So B will get = $x/5 = 1200/5 = \text{Rs. } 240$

Question 21 :

Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements. Statement: All rivers are holy. All gods are holy. Conclusion: All rivers are gods. All gods are rivers.

Difficulty : Moderate

Average Time : 53 Seconds

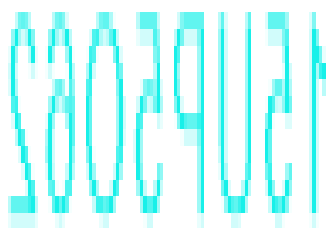
Options :

1. Only conclusion 2 follows
2. Only conclusion 1 follows
3. Neither 1 nor 2 follows
4. Both 1 and 2 follows

Solution :

The correct answer is **Option 3** i.e. **Neither 1 nor 2 follows**.

The least possible Venn diagram would be:



Conclusion:

1. All rivers are gods. **Doesn't follow** (It can be possible but not definite so it does not follow)
2. All gods are rivers. **Doesn't follow** (It can be possible but not definite so it does not follow)

Hence, the correct answer is **Neither 1 nor 2 follows**.

Question 22 :

Which of the following is not the properties of an ionic compound?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Low melting and boiling points

Solid and hard

3. High melting and boiling points

4. Soluble in water and insoluble in petrol

Solution :

The correct answer is **Option 1** i.e. **Low melting and boiling points**.

- **Low melting and boiling points** are not properties of an ionic compound.
- Ionic compound can be defined as the chemical compound formed by opposite charged ions held together by ionic bonds or electrostatic forces.
- The properties of ionic compounds are:
 - They are usually crystalline solids.
 - They have **high melting points** and **high boiling points**.
 - They are usually soluble in water but insoluble in organic solvents.
 - They conduct electricity when dissolved in water or when melted.

Question 23 :

The Dr. B. C. Roy awards, instituted in 1962, are given to eminent achievers primarily from which field?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Sports
2. Journalism
3. Law
4. Medicine

Solution :

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

- The Dr. B. C. Roy awards are given to eminent achievers primarily in the field of **medicine**.
- The Award was instituted in 1962 in memory of Dr. B. C. Roy by the Medical Council of India. It is presented by the President of India in New Delhi every year on July 1, National Doctors' Day. It is also the highest honour that can be achieved by a doctor in India.

Question 24 :

Which of the following is a Non-Luminous body?



Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Glowing bulb
2. Moon
3. Firefly
4. Burning candle

Solution :

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

- **Moon** is a Non-Luminous body.
- Non-luminous bodies are ones which do not emit light of their own.
- **Moon** does not generate light on its own. It reflects the light falling on it from the Sun and hence appears to glow.

Question 25 :

If X has two sisters - Y and Z, and W's mother is the sister of Y's father, then W is Z's _____.

Difficulty : Moderate

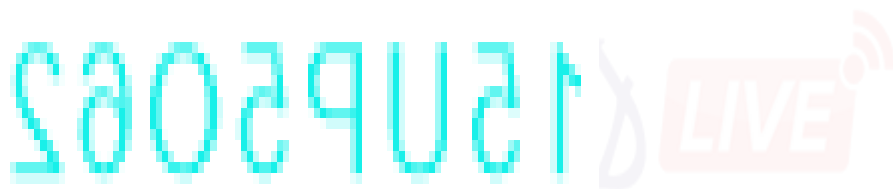
Average Time : 51 Seconds

Options :

1. Mother
2. Cousin
3. Niece
4. Father

Solution :

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



Here, Mr X has two sisters Y and Z and W's mother is the sister of Y's father. The mother of 'W' is the aunt of 'Y'.

Hence, the Mother of 'W' is the aunt of 'X' and W is Z's cousin.

Hence, the correct answer is a **cousin**.

Question 26 :

The ratio of the heights of Nani and Leelu is 4 : 3. If Leelu is 1.2 m tall, then what is the height of Nani?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 0.9 m
2. 2 m
3. 1.6 m
4. 1.8 m

Solution :

The correct answer is **Option 3** i.e. **1.6 m**.

Nani and Leelu = 4 : 3

let the height of Nani be $4x$ and Leelu be $3x$

Leelu is 1.2 m tall

$$3x = 1.2$$

$$x = 0.4$$

$$\text{Nani's height} = 4x = 4 \times 0.4$$

$$= 1.6 \text{ m}$$

Question 27 :

A can complete a task alone in 8 days, while B takes 12 days to do it by herself. Together with C it takes them 4 days to complete the work. If C and D together can complete the task in 15 days, then how many days will D need to complete the task by herself?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 40

2. 32

3. 36

4. 30

Solution :

The correct answer is **Option 1** i.e. **40**.

Let the total work be 24 units

Work done by A in one day = 3 units

Work done by B in one day = 2 units

Work done by A, B & C in one day = 6 units

Work done by C in one day = 1 unit

C would complete the work alone in 24 days

C & D together can complete the task in 15 days

Let the total work be 120 units

Work done by C in 1 day = 5 units

Work done by (C & D) in 1 day = 8 units

Work done by D in 1 day = 3 units

So time taken by D to complete the work alone = $120/3 = 40$ days

Question 28 :

Select the missing figure based on the given related pair of figures.

Difficulty : Moderate

Average Time : 63 Seconds

Options :


1. 

2. 

3. 

4. 

Solution :

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

Apple juice/shake is made up of apples similarly, wool is made up of sheep.

Hence, the correct answer is Option 1 (picture of sheep).

Question 29 :

Choose the correct figure that replaces the question mark.



Difficulty : Moderate

Average Time : 59 Seconds

Options :

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

Solution :

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

Only D is the right figure which represents the correct sequence of the given problem figure.

Hence, the correct answer is D.

Question 30 :

3rd January 2018 was a Wednesday. Which of the following years will also have 3rd January on a Wednesday?

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. 2020
2. 2024
3. 2023
4. 2022

Solution :

The correct answer is **Option 2** i.e. **2024**.

Logic: When we proceed forward by one year, then 1 day is gained and vice versa. When we proceed forward by one leap year, then 2 days are gained and vice versa.

If any year is divided by 4 without any remainder then that year is known as a leap year.

$2018/4 = 504$ and the remainder is 2. So this year is not a leap year.

2018 is not a leap year, so the 3rd of January 2018 is Wednesday.

2019: not a leap year, so the 3rd of January 2019 is Thursday,



2020: a leap year, so the 3rd of January 2020 is Friday.

2021: not a leap year, the 3rd of January 2021 is Sunday.

2022: not a leap year, the 3rd of January 2022 is Monday.

2023: not a leap year, the 3rd of January 2023 is Tuesday.

2024: a leap year, the 3rd of January 2024 is Wednesday.

Thus 3rd January 2024 is a Wednesday.

Hence, the correct answer is **2024**.

Question 31 :

Which Indian female mountaineer recently created the fastest record of scaling Mount Everest back-to-back twice within 5 days?

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. Anshu Jamsenpa
2. Bachendri Pal
3. Premlatha Agarwal
4. Arunima Sinha

Solution :

The correct answer is **Option 1** i.e. **Anshu Jamsenpa**.

- **Anshu Jamsenpa** is an Indian mountaineer who recently created the fastest record of scaling Mount Everest back-to-back twice within 5 days.
- She was awarded India's fourth highest civilian award the Padma Shri in 2021.

Question 32 :

Dakshin Gangotri is a research base station set up by Indian scientists. Where is it located?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Sundarbans Delta



Antarctica

3. Sri Lanka

4. Cauvery Basin

Solution :

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

- Dakshin Gangotri is a research base station set up by the Indian scientists in **Antarctica**. It is located at a distance of 2,500 kilometres (1,600 mi) from the South Pole.
- Currently, it is being used as a supply base and transit camp. The base is named after Dakshin Gangotri Glacier.

Question 33 :

Consider the given argument and decide which of the given assumptions is (are) implicit. Argument: "A visit of school students to botanical garden to widen their knowledge of natural resources has been arranged" ---- a message on the notice board in the school. Assumptions: Botanical gardens are full of natural resources. School students are likely to learn more through interaction with the new environment.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Neither assumption 1 nor 2 is implicit.
2. Both assumptions 1 and 2 are implicit.
3. Only assumption 1 is implicit.
4. Only assumption 2 is implicit.

Solution :

The correct answer is **Option 1** i.e. **Neither assumption 1 nor 2 is implicit**.

Argument:

"A visit of school students to the botanical garden to widen their knowledge of natural resources has been arranged" ---- a message on the notice board in the school.

Assumptions:

1. Botanical gardens are full of natural resources. **Not implicit** (Botanical garden does not contain all natural resources. It has only plants so it is not implicit.)
2. School students are likely to learn more through interaction with the new environment. **Not Implicit** (This can be a way of learning but it is not given in the statement so it is also not implicit.)



Hence, the correct answer is **Neither assumption 1 nor 2 is implicit.**

Question 34 :

One-third of Poojitha's age three years ago plus one-half of her age two years from now is twenty years. How old is she now?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 23 years
2. 26 years
3. 24 years
4. 25 years

Solution :

The correct answer is **Option 3** i.e. **24 years.**

Let her present age is x years

According to the question,

$$\left(\frac{1}{3}\right)(x - 3) + \left(\frac{1}{2}\right)(x + 2) = 20$$

$$2(x - 3) + 3(x + 2) = 20 \quad (6)$$

$$2x - 6 + 3x + 6 = 120$$

$$5x = 120$$

$$x = 24$$

So, she is 24 years old now.

Hence, the correct answer is **24.**

Question 35 :

Find the missing word for the related pair. Road : Car :: Sea : ?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Ship



Water

3. Fish

4. River

Solution :

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

Car is the means of transportation on the Road. Similarly, a Ship is the means of transportation at Sea.

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

Question 36 :

Given $17 \times 29 = 493$, then $170 \times 0.029 = ?$

Difficulty : Moderate

Average Time : 37 Seconds

Options :

1. 4.93

2. 0.493

3. 49.3

4. 0.0493

Solution :

The correct answer is **Option 1** i.e. **4.93**.

$$17 \times 29 = 493,$$

$$170 \times 0.029 = 17 \times 29 \times 10/1000 = 4.93$$

Hence, the correct answer is **4.93**.

Question 37 :

Select the number missing from the given sequence. 1, 2, 6, _____, 120, 720

Difficulty : Moderate

Average Time : 34 Seconds

Options :

1. 50

2. 12



24

4. 9

Solution :

The correct answer is **Option 3** i.e. **24**.

The pattern of this sequence will be:

$$1 \times 2 = 2$$

$$2 \times 3 = 6$$

$$6 \times 4 = 24$$

$$24 \times 5 = 120$$

$$120 \times 6 = 720$$

Hence, the correct answer is **24**.

Question 38 :

A wheel has diameter 84 cm. The number of complete revolution it will take to cover 792 m is:

Difficulty : Moderate**Average Time : 41 Seconds****Options :**

1. 330

2. 320

3. 300

4. 350

Solution :

The correct answer is **Option 3** i.e. **300**.

Diameter = 84 cm

So Radius = 42 cm

Circumference = $2r$

$$= 2 \times \left(\frac{22}{7}\right) \times 42$$

$$= 264 \text{ cm}$$

= 2.64 m

So the wheel covers 2.64 m in one complete revolution

No of complete revolution a wheel would take to cover the distance of 792 m = $\frac{792}{2.64}$

= 300

Question 39 :

The square root of 27225 is:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 145
2. 165
3. 175
4. 155

Solution :

The correct answer is **Option 2** i.e. **165**.

$$\begin{array}{r} 165 \\ 1 \overline{) 27225} \\ \underline{1} \\ 26 \\ 26 \overline{) 172} \\ \underline{156} \\ 325 \\ 325 \overline{) 1625} \\ \underline{1625} \\ X \end{array}$$

OR

Using factorization

$$27225 = 3 \times 3 \times 5 \times 5 \times 11 \times 11$$

$$27225 = 3 \times 5 \times 11$$

$$27225 = 165$$

**Question 40 :**

Use each of the following figures only once and form three groups. The three groups thus formed are:

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

1. (1,5,7), (2,3,9), (4,6,8)
2. (1,5,7), (2,6,9), (4,3,8)
3. (1,5,9), (2,6,7), (4,3,8)
4. (1,5,7), (2,6,8), (4,3,9)

Solution :

The correct answer is **Option 2** i.e. (1,5,7), (2,6,9), (4,3,8).

In the given figure, we have three figures:

Square, triangle and circle.

So, a group of three will be based on their shape. Thus, (1,5,7) square, (2,6,9) triangle, and (4,3,8) circle are the correct group.

Hence, the correct answer is **(1,5,7), (2,6,9), (4,3,8)**

Question 41 :

Ravichandran Ashwin became the fastest player in the world (in terms of number of test matches) to get 300 wickets in test cricket in November 2017. Whose record did Ashwin break?

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

1. Malcolm Marshall
2. Richard Hadlee
3. Dennis Lillee
4. Muthiah Muralitharan

Solution :

The correct answer is **Option 3** i.e. **Dennis Lillee**.

- Ravichandran Ashwin became the fastest player in the world (in terms of number of test matches) to get 300 wickets



in test cricket in November 2017 breaking **Dennis Lillee's** record during India's win over Sri Lanka.

- **Dennis Lillee** had reached the milestone in 56 Test matches way back in 1981 and it took 36 years for another bowler to break the record.

Question 42 :

Which of the following will give a terminating decimal?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. $\frac{3}{36}$
2. $\frac{6}{36}$
3. $\frac{12}{36}$
4. $\frac{9}{36}$

Solution :

The correct answer is **Option 4** i.e. $\frac{9}{36}$.

$$\frac{3}{36} = \frac{1}{12} = 0.08333\dots$$

$$\frac{6}{36} = \frac{1}{6} = 0.16666\dots$$

$$\frac{12}{36} = \frac{1}{3} = 0.3333\dots$$

$$\frac{9}{36} = \frac{1}{4} = 0.25$$

So $\frac{9}{36}$ gives a terminating decimal

Question 43 :

Which of the following statements is INCORRECT?

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. Solids are almost incompressible
2. Solids have indefinite shape
3. Solids are rigid
4. Solids have definite volume

Solution :

The correct answer is **Option 2** i.e. **Solids have indefinite shape.**

- The statement **solids have indefinite shape is incorrect.**
- In the solid state, the individual particles of a substance are in fixed positions with respect to each other because there is not enough thermal energy to overcome the intermolecular interactions between the particles. As a result, **solids have a definite shape and volume.**

Question 44 :

In plants, the carbohydrates which are NOT used immediately are stored in the form of:

Difficulty : Moderate**Average Time : 55 Seconds****Options :**

1. Fatty acids
2. Amino acids
3. Starch
4. Fats

Solution :

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

- In plants, the carbohydrates which are NOT used immediately are stored in the form of **starch.**
- In autotrophic organism, the carbon and energy requirements are fulfilled by photosynthesis. It is the process by which autotrophs take in substances from the outside and convert them into stored forms of energy. This material is taken in the form of carbon dioxide and water which is converted into carbohydrates in the presence of sunlight and chlorophyll. Carbohydrates are utilised for providing energy to the plant and the carbohydrates which are not used immediately are stored in the form of **starch**, which serves as the internal energy reserve to be used as and when required by the plant.

Question 45 :

Who is the director of Indian cinema's highest grossing film Bahubali?

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

1. Karan Johar
2. Gautham Vasudev Menon



Sanjay Leela Bhansali

4. SS Rajamouli

Solution :

The correct answer is **Option 4** i.e. **S.S. Rajamouli**.

- **S. S. Rajamouli** is the director of Indian cinema's highest grossing film Bahubali.
- The film was filmed in both Telugu and Tamil languages simultaneously. The film features an ensemble cast including Prabhas in a dual role alongside Rana Daggubati, Anushka Shetty, Tamannaah, Ramya Krishna, Sathyaraj, and Nassar.

Question 46 :

The work done in one complete revolution of the moon around the earth is equal to:

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. gravitational force \times diameter of the orbit of the moon
2. gravitational force \times circumference of the orbit of the moon
3. Zero
4. centripetal force \times radius of the orbit of the moon

Solution :

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

- The work done in one complete revolution of the moon around the earth is equal to **zero**.
- As the moon revolves around the earth in a uniform circular motion, the moon will have a constant speed and the radius of the moon will be fixed. So if the moon is in a uniform circular motion then its speed will not change.
- As in one revolution, the moon comes back to its initial position the position from where it started and the displacement will be **zero**.

Question 47 :

The second equation of motion gives the relation between:

Difficulty : Moderate

Average Time : 65 Seconds

Options :

Position and velocity

2. Position and time

3. Velocity and acceleration

4. Velocity and time

Solution :

The correct answer is **Option 2** i.e. **Position and time**.

- The second equation of motion gives the relation between **position and time**.
- **The equation is**
- **$s = ut + \frac{1}{2} at^2$ where,**
- **s = distance traveled by the object, (position of the object)**
- **u = initial velocity**
- **t = time**
- **a = acceleration of the object**
- **Thus, the relation between the position and time is given by the second equation of motion.**

Question 48 :

Who is the Deputy Chief Minister of Bihar as of February 2018?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. **Sushil Kumar Modi**
2. **Ram Vilas Paswan**
3. **Lalu Prasad Yadav**
4. **Shatrughan Sinha**

Solution :

The correct answer is **Option 1** i.e. **Sushil Kumar Modi**.

- As of february 2018, **Sushil Kumar Modi** was appointed as the Deputy Chief Minister of Bihar.
- **Sushil Kumar Modi** is an Indian politician from the Bharatiya Janata Party who is a Member of Parliament in the Rajya Sabha. He is also a lifelong member of the Rashtriya Swayamsevak Sangh.
- He was appointed the Chairman of the Empowered Committee of State Finance Ministers for the Implementation of Goods and Service Tax in July 2011.

Question 49 :



After buying a toy for Rs. 66, Raghu managed to sell it at a profit of 15%. The selling price of the toy was :

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Rs. 75.20
2. Rs. 70.80
3. Rs. 75.90
4. Rs. 76.90

Solution :

The correct answer is **Option 3** i.e. **Rs. 75.90**.

Cost Price = Rs. 66

Profit = 15%

Profit % = $\left(\frac{\text{Profit}}{\text{CP}}\right) \times 100$

15% = $\left(\frac{\text{Profit}}{66}\right) \times 100$

Profit = $\left(\frac{15 \times 66}{100}\right)$

Profit = Rs. 9.9

Profit = Selling Price - Cost Price

Rs. 9.9 = Selling Price - 66

Selling Price = 66 + 9.9

Selling Price = Rs. 75.90

Question 50 :

Consider the given statement to be true and decide which of the conclusion(s) logically follow(s) from the statement.

Statement: Weight is also a Force. Conclusions: The unit of weight is Newton. The unit of weight is Kilograms.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Neither conclusion 1 nor 2 follows.
2. Only conclusion 2 follows.



Both conclusions 1 and 2 follow.

4. Only conclusion 1 follows.

Solution :

The correct answer is **Option 4** i.e. **Only conclusion 1 follows**.

Statement:

Weight is also a Force.

Conclusions:

1. The unit of weight is Newton: **True** (According to the given statement, weight is also a force. The unit of Force is Newton, so by that given logic, unit of weight should also be Newton)
2. The unit of weight is Kilograms: **False** (There is no mention about the unit of Weight in the given statement, so this conclusion cannot be true)

Note: In such questions, we always consider the given statement to be true irrespective of the universally known truths.

Question 51 :

Which of the following films is India's official entry to Oscars 2018?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. **Newton**
2. **A Death in the Gunj**
3. **Lipstick Under My Burkha**
4. **Bahubali**

Solution :

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

- The film **Newton** is India's official entry to Oscars 2018.
- The film was chosen from among 26 titles from different languages by a 14-member jury appointed by the Film Federation of India (FFI).
- **Newton** is a Indian Hindi-language film co-written and directed by Amit V. Masurkar. The film stars Rajkummar Rao in the titular role of a government servant who is sent to a politically sensitive area of central India on election duty.

Question 52 :



The SI unit of electric charge is:

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. coulomb
2. ampere
3. volt
4. ohm

Solution :

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

- The S.I unit of electric charge is **coulomb** which is represented by the symbol C. A **coulomb** is defined as the amount of charge that passes through an electrical conductor carrying one ampere per second.

Question 53 :

Which of the following does NOT act as both, metal and nonmetal?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Arsenic
2. Boron
3. Bismuth
4. Germanium

Solution :

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

- **Bismuth** does NOT act as both, metal and non-metal as it is not a metalloid.
- Metalloids shows properties of both metals and non-metals.
- **Bismuth** is a brittle white **metal** with a pinkish tinge. It is located in Group V of the Periodic Table with nitrogen, phosphorus, arsenic, and antimony.

Question 54 :

Select the option that represents the number of triangles in the following figure.



Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 15
2. 12
3. 16
4. 17

Solution :

The correct answer is **Option 3** i.e.16.



Now from the above figure, the triangles are: $\triangle ABF$, $\triangle AEF$, $\triangle ACF$, $\triangle ADF$, $\triangle ACG$, $\triangle ADG$, $\triangle CFD$, $\triangle CFG$, $\triangle GFD$, $\triangle DFE$, $\triangle CBF$, $\triangle ABD$, $\triangle BDC$, $\triangle ACE$, $\triangle DCE$ and $\triangle ACD$.

So the total number of triangles in this figure are 16.

Hence, the correct answer is **16**.

Question 55 :

_____ is not an endocrine gland in humans.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. The adrenal gland
2. The pituitary gland
3. The pineal gland
4. The liver

Solution :

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

- **The liver** is not an endocrine gland in humans.
- The **liver** is the largest solid organ in the human body. It is part of the digestive system and plays an essential role in removing toxins from the blood, metabolizing nutrients, and immune function.
- **Endocrine glands** are ductless glands of the endocrine system that secrete their products, hormones, directly into the blood. The major glands of the endocrine system include the pineal gland, pituitary gland, pancreas, ovaries, testes, thyroid gland, parathyroid gland, hypothalamus and adrenal glands.





Question 56 :

Which of the options depicts the correct mirror image of the given figure? 15UP5062

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 
2. 
3. 
4. 

Solution :

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

In the mirror image, the left becomes right and vice-versa, so only option 1 depicts the right sequence of the given series.

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

Question 57 :

One of the most famous speeches in U.S. Presidential history is 'The Gettysburg Address'. Name the US President who gave this epochal speech.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. John F. Kennedy
2. Abraham Lincoln
3. Theodore Roosevelt



George Washington

Solution :

The correct answer is **Option 2** i.e. **Abraham Lincoln**.

- The Gettysburg Address is a speech that U.S. President **Abraham Lincoln** delivered during the American Civil War at the dedication of the Soldiers' National Cemetery, now known as Gettysburg National Cemetery, in **Gettysburg** on **November 19, 1863**
- It remains one of the best known speeches in American history.

Question 58 :

Select the odd figure out of the given series.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

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

Solution :

The correct answer is **Option 1** i.e. **3**.

The positional value of E is 5, not 20. So, E is odd.

Hence, the correct answer is **3**.

Question 59 :

What does Coulomb's Law state?

Difficulty : Moderate

Average Time : 34 Seconds

Options :

1. The magnitude of the force of attraction (or repulsion) between two point charges is directly proportional to the product of the quantity of the two charges and inversely proportional to the square of the distance between them.
2. The magnitude of the force of attraction (or repulsion) between two point charges is inversely proportional to the product of the quantity of the two charges as well as to the square of the distance between them.
3. The magnitude of the force of attraction (or repulsion) between two point charges is inversely proportional to the



product of the quantity of the two charges and directly proportional to the square of the distance between them.

4. The magnitude of the force of attraction (or repulsion) between two point charges is directly proportional to the product of the quantity of the two charges and to the square of the distance between them.

Solution :

The correct answer is **Option 1** i.e. **The magnitude of the force of attraction (or repulsion) between two point charges is directly proportional to the product of the quantity of the two charges and inversely proportional to the square of the distance between them.**

- According to Coulomb's law, the force of attraction or repulsion between two charged bodies is directly proportional to the product of their charges and inversely proportional to the square of the distance between them. It acts along the line joining the two charges considered to be point charges.

Question 60 :

A sum of money invested for 2 years and 9 months at the rate of 8% simple interest per annum became Rs. 732 at the end of the period. What was the sum that was initially invested?

Difficulty : Moderate**Average Time : 98 Seconds****Options :**

1. Rs. 600
2. Rs. 575
3. Rs. 550
4. Rs. 500

Solution :

The correct answer is **Option 1** i.e. **Rs. 600.**

Let the sum invested i.e. the principal amount be Rs. P

Amount = Rs. 732, Rate = 8%, Time = 2 years 9 months or $11\frac{1}{4}$ years

SI = Amount - Principal

SI = 732 - P

$$\left(\frac{P \times R \times T}{100}\right) = 732 - P$$
$$\left(\frac{P \times 8 \times 11\frac{1}{4}}{100}\right) = 732 - P$$
$$122P = 73200$$



P = Rs. 600

Question 61 :

Which of the following options correctly describes the given statement. Statement: There are four rooks in a game of chess.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Often
2. Never
3. Sometimes
4. Always

Solution :

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

Question 62 :

A ball of 0.1 kg is dropped from rest. When it falls through a distance of 2 m, the work done by the force of gravity is ($g = 9.8 \text{ m/s}^2$):

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. 0.98 J
2. -0.98 J
3. -1.96 J
4. 1.96 J

Solution :

The correct answer is **Option 4** i.e. **1.96 J**.

- The work done by the force of gravity is **1.96 J**.
- The Work done = fs ,
- Where f = force acting on the object and s = displacement (Displacement of the ball is 2 m)
- Now, Force (f) = ma ,
- Where m = mass of the object and a = acceleration due to gravity
- Force in present case = $ma = 0.1 \text{ kg} \times 9.8 \text{ m/s}^2$

Thus, Work would be = $fs = m \times a \times s$

• $= 0.1 \times 9.8 \times 2 = 1.96 \text{ J.}$

Question 63 :

Which one of the following elements has the lowest atomic mass?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Lithium
2. Nitrogen
3. Helium
4. Hydrogen

Solution :

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

- **Hydrogen** has the lowest atomic mass of the elements is hydrogen.
- It is the first element in the Periodic Table with an atomic mass 1.
- The elements are arranged in the periodic table in the increasing order of their atomic masses.

Question 64 :

The difference between Charles' and Shriya's ages is 6 years. When they married each other 30 years ago, 4 times Charles's age was the same as 5 times the age of Shriya. What is the current sum of their ages?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 114 years
2. 110 years
3. 115 years
4. 112 years

Solution :

The correct answer is **Option 1** i.e. **114 years**.

Let Charle's age is x years and Shriya's age is y years

According to the question,

$$x - y = 6$$

$$x = 6 + y \text{ (equation 1)}$$

$$4(x - 30) = 5(y - 30)$$

$$4x - 120 = 5y - 150$$

$$4x - 5y + 30 = 0 \text{ (equation 2)}$$

Putting equation 1 in equation 2, we get

$$y = 54 \text{ and } x = 60$$

So, the sum of Charle's age and Shriya's age = $54 + 60 = 114$ years

Hence, the correct answer is **114**.

Question 65 :

If ABCD is a trapezium, AC and BD are the diagonals intersecting each other at point O. Then AC : BD is

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. AD : BC
2. AB + AD : DC + BC
3. AB : CD
4. AO - OC : OB - OD

Solution :

The correct answer is **Option 4** i.e. **AO - OC : OB - OD**.

In the given trapezium

AB is parallel to CD

In $\hat{\text{BAO}}$ and $\hat{\text{DCO}}$

$$\text{BAO} = \text{DCO}$$

$$\text{ABO} = \text{CDO}$$

$$\text{BOA} = \text{DOC}$$

So $\hat{\text{BAO}}$ and $\hat{\text{DCO}}$ are similar



$$AO/CO = BO/DO \quad \dots(1)$$

$$AO/CO + 1 = BO/DO + 1$$

$$AC/OC = BD/OD$$

$$AC/BD = OC/OD \quad \dots(2)$$

$$\text{Let } AO/CO = BO/DO = p$$

$$AO = pCO, BO = pDO$$

$$AO - CO = pCO - CO = CO(p - 1), BO - DO = pDO - DO = DO(p - 1)$$

$$(AO - CO)/(BO - DO) = \{CO(p - 1)\}/\{DO(p - 1)\}$$

$$= CO/DO$$

$$\text{So } AC/BD = (AO - CO)/(BO - DO)$$

$$AC/BD = (AO - OC) : (OB - OD)$$

Question 66 :

In the circle above, chord \overline{AB} is extended to meet the tangent at D. If $\overline{AB} = 5$ cm and $\overline{DE} = 6$ cm, find the length of \overline{BD} .

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

1. 4 cm
2. 6 cm
3. 30 cm
4. 5 cm

Solution :

The correct answer is **Option 1** i.e. **4 cm**.

$$AB = 5 \text{ cm}$$

$$DE = 6 \text{ cm}$$

$$\text{let } BD \text{ be } x \text{ cm}$$

$$AD = (5 + x) \text{ cm}$$

Using tangent theorem

$$(DE)^2 = (AD)(BD)$$

$$6^2 = (5 + x)x$$

$$36 = 5x + x^2$$

$$x^2 + 5x - 36 = 0$$

Splitting middle terms

$$x^2 - (4 - 9)x - 36 = 0$$

$$x^2 - 4x + 9x - 36 = 0$$

$$x(x - 4) + 9(x - 4) = 0$$

$$(x - 4)(x + 9) = 0$$

$$x = 4$$

$x = -9$ which is not possible

So $BD = 4$ cm

Question 67 :

Who is the Chief Executive Officer (CEO) of JP Morgan India as of February 2018?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Usha Ananthasubramanian
2. Shanthy Ekambaram
3. Naina Lal Kidwai
4. Kalpana Morparia

Solution :

The correct answer is **Option 4** i.e. **Kalpana Morparia**.

- The Chief Executive Officer (CEO) of JP Morgan India as of February 2018 is **Kalpana Morparia**.
- **Kalpana Morparia** is an Indian banker and was associated with ICICI Bank for thirty three years.
- She serves as an independent Director on the Boards of several leading Indian companies.
- She is ranked by Fortune magazine as one of the fifty most powerful women in international business.

**Question 68 :**

Based on the given data, the total percentage of literates in the four cities together, round to one decimal, is _____.

Difficulty : Moderate**Average Time : 55 Seconds****Options :**

1. 55.9
2. 55.8
3. 55
4. 55.7

Solution :

The correct answer is **Option 2** i.e. **55.8**.

Total population of City B = $200 + 100 = 300$

Total population in all four cities = $200 + 300 + 150 + 120$

= 770

Literate people in city D = $120 - 90 = 30$

Total population of literate people in all four cities = $150 + 200 + 50 + 30$

= 430

Percentage of literate people in all four cities = $\left(\frac{430}{770}\right) \times 100$

= 55.8

Question 69 :

Which one of the following triad represents Dobereiner's Triad?

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

1. Li, K, Na
2. Na, Sr, Br
3. Li, Na, K
4. Li, Ca, C1

Solution :

The correct answer is **Option 3** i.e. **Li, Na, K**.

- According to Dobereiner's law of triads, the atomic mass of the middle element of a triad is equal to the arithmetic mean of the atomic masses of the other two elements.
- The atomic mass of **Li (lithium) is 7** and the atomic mass of **K (potassium) is 39**. The arithmetic mean of atomic masses of **Li** and **K** gives atomic mass of **Na (sodium) i.e. 23**.
- The atomic mass of Sodium = (Atomic Mass of Lithium + Atomic mass of Potassium) / 2

$$= (7 + 39)/2$$

$$= 46/2$$

$$= 23$$

Question 70 :

The process of taking up a permanent shape, size and function to form a permanent tissue is called:

Difficulty : Moderate

Average Time : 84 Seconds

Options :

1. differentiation
2. formation
3. unification
4. calcification

Solution :

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

- Meristematic tissue cells take on a specific function and lose their ability to divide and as a result, a permanent tissue is formed. The process of taking on a permanent shape, size, and function is known as **differentiation**.

Question 71 :

In a computer game, there are builders and destroyers. Together there are 20 of them. Some of them try to build a wall around a castle while the rest try to demolish it. Each of the builders can build the wall alone in 15 hours while any of the destroyers can demolish it in 10 hours. If all 20 builders and destroyers are made active when there is no wall and the wall gets built in 3 hours, how many of them are destroyers?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 6



5

3. 7

4. 8

Solution :

The correct answer is **Option 1** i.e. 6.

Let the total work be LCM of 15 & 10 i.e. 30 units

Wall gets built in 3 hours.

Work done by builders and destroyers in 1 hour = $30/3 = 10$ units

Work done by builders in 1 hour = $30/15 = 2$ units

Work done by destroyers in 1 hour = $30/10 = 3$ units

Difference between the work done = 10 units

let the number of destroyers be x and the number of builders be $(20 - x)$

$$2(20 - x) - 3x = 10$$

$$40 - 2x - 3x = 10$$

$$x = 6$$

So the number of destroyers is 6.

Question 72 :

Select the figure which does NOT belong to the group.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. B

2. A

3. D

4. C

Solution :

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

Except for A, all of them have sides and the shaded portions present are downwards.

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

Question 73 :

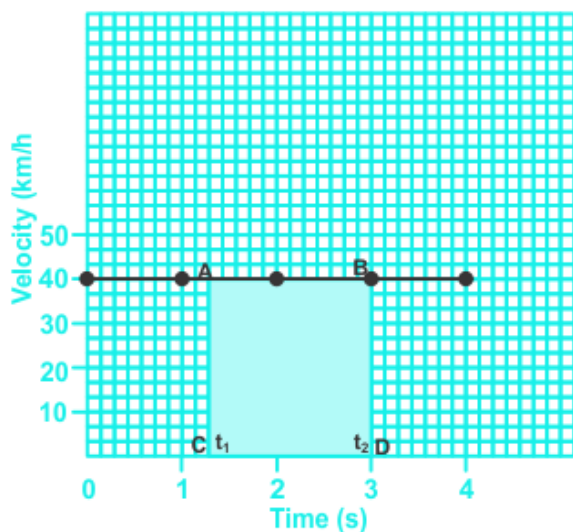
Which of the following is a velocity-time graph for uniform motion of a car?

Difficulty : Moderate

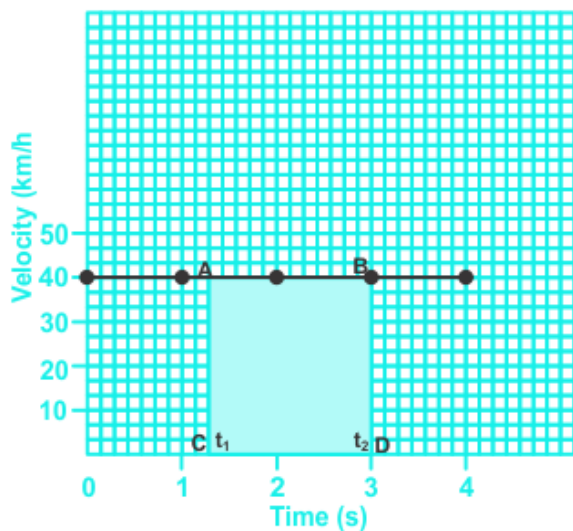
Average Time : 39 Seconds

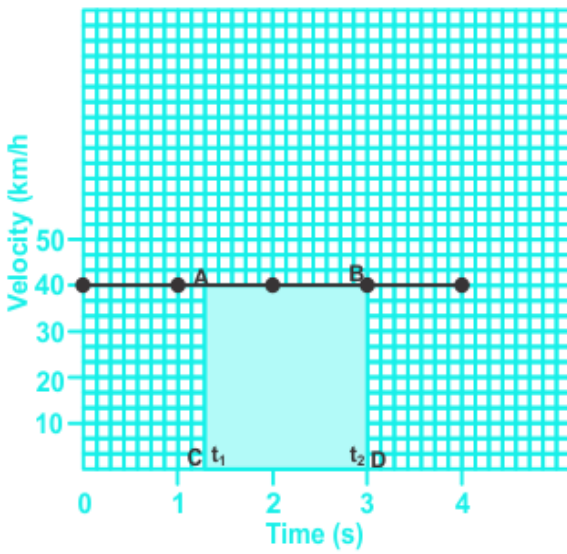
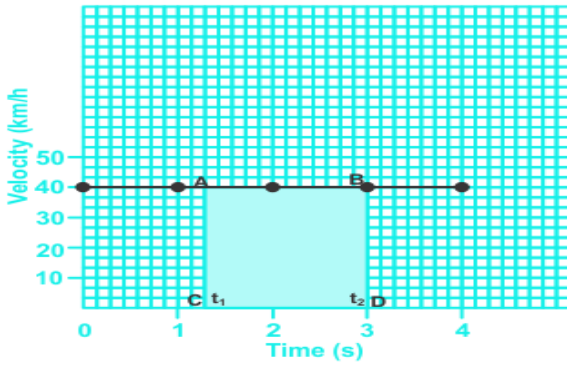
Options :

1.



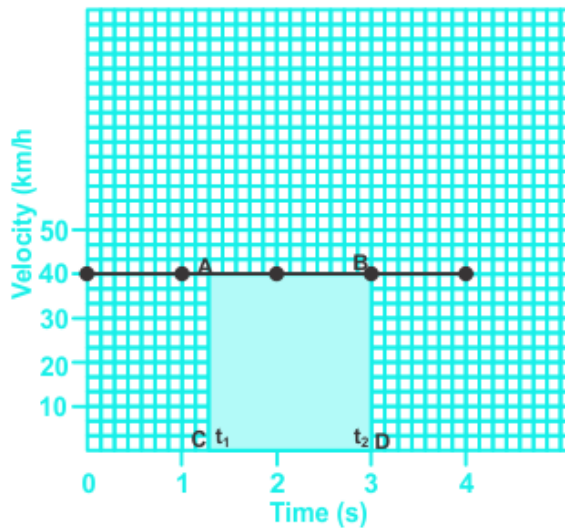
2.





4.

Solution :



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

In uniform motion, the speed of the body remains constant, that is, the magnitude of the velocity does not change as there is no tangential acceleration. Since, acceleration is the slope of the velocity-time graph, if it is zero, then the slope will also be zero. Therefore, the graph will be nothing but a straight horizontal line with zero slope.

Question 74 :

The number of letters that are preceded by a symbol but not followed by a number in the given expression is _____.
\$M@A#N2B4O&3C5P+D2

Difficulty : Moderate

Average Time : 75 Seconds

Options :

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

Solution :

The correct answer is **Option 1** i.e. **2**.

The number of letters that are preceded by a symbol but not followed by a number is as shown below:

\$ M @ A #N2B4O&3C5P+D2

So, 2 letters are preceded by a symbol but not followed by a number.

Hence, the correct answer is **2**.

Question 75 :

Solve the following. $\{38 - (60 \div 5 \times (\overline{16 - 8}) \div 2 \div 3)\} = ?$

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 30
2. 29
3. 37
4. 22

Solution :



The correct answer is **Option 4** i.e. **22**.

$$\{38 - (60 \div 5 \times \overline{\{16 - 8\}}) \div 2 \div 3\}$$

$$= \{38 - (60 \div 5 \times 8 \div 2 \div 3)\}$$

$$= \{38 - (12 \times \frac{4}{3})\}$$

$$= \{38 - 16\}$$

$$= 22$$

Rrb Alp CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Alp CBT - 1 Previous Year Question Paper held on 2018-08-10 in the Evening 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. 1 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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Further Guidance on Rrb Alp CBT - 1 Previous Year Question Paper

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About Neetu Mam

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.