

Rrb Group D CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Group D CBT - 1 Previous Year Question Paper on 2018-10-04 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Group D CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Group D CBT - 1 exam. The Cutoff of the exam was 77 marks hence you should try to score at least 87 marks.

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

Question 1 :

Find out the least number to be added to 1051 to make it completely divisible by 33.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 31

2. 33

3. 38

4. 36

Solution :

The correct answer is **option 3** i.e. **38**

Given :

Dividend = 1051

Divisor = 33

Formula used :

Dividend = Divisor * Quotient + Remainder ----- (1)

Calculations :

Using formula (1), we get



$$\backslash(1051 \backslash\text{div } 33 = 31 \backslash\text{times } 33+ 28\backslash)$$

The remainder is 28, then

If we add 38 in the dividend, then

$$1051 + 38$$

$$1089/33 = 33$$

So, the least number to be added is 38.

Question 2 :

Choose the option that is NOT true about vascular system.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Blood flows at low pressure, with jerk and faster in them
2. It forms about 7-8% of the body weight.
3. Blood is commonly called river of life.
4. Life span of human RBCs is 115-120 days.

Solution :

The correct answer is **option 1** i.e. **Blood flows at low pressure, with jerk and faster in them.**

- Blood moves through the circulatory system as a result of being pumped out by the heart.
- Blood leaving the heart through the arteries is saturated with oxygen.
- In arteries, blood flows with high pressure and more jerks.
- Blood forms about 7-8% of the bodyweight.'
- Blood is commonly called river of life.
- Life span of human RBCs is 115-120 days.

Question 3 :

The Gulf of Bothnia is situated between two countries. One of them is Finland. Which is the other country?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Denmark
2. Russia



Sweden

4. Norway

Solution :

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

- The Gulf of Bothnia is situated between two countries, which are Finland and Sweden.
- It covers an area of 45,200 square miles.
- It forms the north most arm of the Baltic sea.
- Aland islands lie to the south of it.

Question 4 :

A tractor can finish its journey in 10 hours at the speed of 36 km/hr. If the same distance must be covered in 8 hours, whoul should be the speed of the tractor?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 60 km/hr
2. 50 km/hr
3. 45 km/hr
4. 55 km/hr

Solution :

The correct answer is **option 3** i.e. **45 km/hr**

Given :

Time₁ = 10 hours

Speed = 36 hours

Time₂ = 8 hours

Formula used :

Speed = Distance/Time ----- (1)

Calculations :

Using Formula (1), we get



$$36 * 10 = \text{Distance}$$

$$\text{Distance} = 360 \text{ km}$$

If tractor covers the same distance in 8 hours then

$$\text{Speed} = \text{Distance} / \text{Time}_2$$

$$\text{Speed} = 360/8$$

$$\text{Speed} = 45\text{km/h}$$

Question 5 :

The above Venn diagram represents the students who play 3 sports M, N, and L in a class. The total number of students who play game M is:

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 7
2. 11
3. 32
4. 21

Solution :

The correct answer is **Option 3** i.e. **32**.

Understanding

The total number of students who play game M is = $11 + 7 + 6 + 8 = 32$

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

Question 6 :

The chemical formula of ferrous sulphate crystal is _____.

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. $\text{FeSO}_4\text{H}_2\text{O}$

**Solution :**

The correct answer is **option 4** i.e. $\text{FeSO}_4\cdot 7\text{H}_2\text{O}$.

- The chemical formula of ferrous sulphate crystal is $\text{FeSO}_4\cdot 7\text{H}_2\text{O}$.
- It is a yellow-brown or greenish crystalline solid.
- It is heptahydrate salt.

Question 7 :

Who hosted recently concluded ASIA CUP Men's Cricket tournament?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. UAE
2. Bangladesh
3. Nepal
4. China

Solution :

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

- The 2018 Asia Cup (also known as Unimoni Asia Cup) was a One day International (ODI) cricket tournament that was held in the United Arab Emirates in September 2018.
- It was the 14th edition of the Asia Cup and the third time the tournament was played in the United Arab Emirates, after the 1984 and 1995 tournaments.
- India were the defending champions, and retained their title, after beating Bangladesh by three wickets in the final.

Question 8 :

45 men can complete a piece of work in 12 days. In how many days will 36 men be able to complete it?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 10



16

3. 18

4. 15

Solution :The correct answer is **option 4** i.e. **15****Given :**

45 men completes the work in 12 days

Formula used :

Total work by A = Total work by B

$$M_1 * D_1 = M_2 * D_2 \quad \text{----- (1)}$$

Calculations :

Total work done by 45 men in 12 days is equal to work done by 36 men

Using equations (1)

$$45 * 12 = 36 * D_2$$

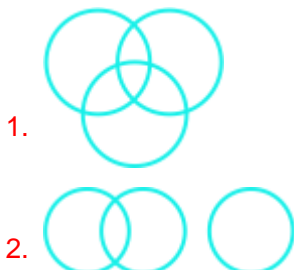
$$540 = 36 * D_2$$

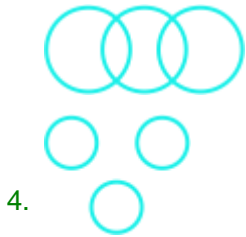
$$540/36 = D_2$$

$$D_2 = 15 \text{ days}$$

Question 9 :

Choose the best suitable Venn diagram for the following words. Capsicum, Mat, Rat.

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



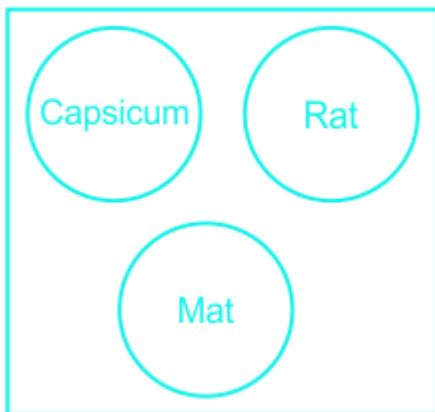
Solution :



The correct answer is **Option 4** .

Understanding

The possible Venn diagram is:



Capsicum, Mat, and Rat are three different classes.

Hence, the diagram given above shows the best relationship between them.

Question 10 :

Which process of fusion of sperm and ova results in the formation of a single structure called zygote?

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. Fragmentation

Fertilisation

3. Sexual reproduction

4. Tissue culture

Solution :

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

- Fertilization is the process in which gametes (an egg and sperm) fuse to form a zygote.
- The egg and sperm each contain one set of chromosomes.
- Later it gets implanted into the uterus and the development of an organism.

Question 11 :

Choose the correct figure that will fit in the blank space in the following series.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

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

Solution :

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

Understanding

The 2nd figure from the first box is now the first element in the second box. The first element from the first box is now the 2nd element in the 2nd box which is inside the 1st element. The third figure with one more side extra than the 2nd figure in the 1st box appears inside.

The sequence of figures:

**Question 12 :**

Find the mirror image of the following figure if the mirror is placed at line MN.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

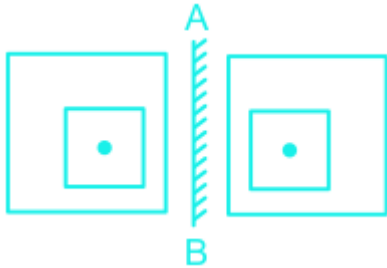
1. A
2. C
3. D
4. B

Solution :

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

Understanding

The mirror image of the question figure is shown below:



Since the mirror is placed right to the question figure, the right-hand side of the original image will be now the left-hand side of the mirror image.

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

Question 13 :

Four words have been given below of which three are alike in some way and one is different. Choose the odd one out:

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. ISM Dhanbad
2. (CBI) Central Bureau of Investigation
3. NIT Warangal
4. BHU Varanasi

Solution :

The correct answer is **option 2** i.e. **(CBI) Central Bureau of Investigation**.

Understanding

ISM Dhanbad, NIT Warangal, and BHU Varanasi are educational institutes whereas CBI is not an educational institute.

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

Question 14 :

Find the missing word. Leap (_____) Jump

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Walk
2. Descend
3. Bounce
4. Run

Solution :

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

Understanding

Leap Bounce Jump

All three are synonyms.

Leap means to jump or spring a long way, to a great height, or with great force.

Bounce means jumping repeatedly up and down, typically on something springy.

To Jump means to move suddenly and quickly in a specified way.

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

Question 15 :

Each question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument. Statement: Is a morning dose of coffee good for health? Arguments: I. Yes, coffee contains high antioxidants and many minerals which supply essential nutrients to the body. II. No, consuming too much coffee can lead to panic anxiety attacks and also reduces the quality of sleep.

Difficulty : Moderate

Average Time : 72 Seconds

Options :



Only argument I is strong.

2. Both I and II are strong.
3. Neither I nor II is strong
4. Only argument II is strong

Solution :

The correct answer is **Option 1** i.e. **Only argument I is strong.**

Understanding

The statement talks about the morning dose of coffee.

Argument I: Yes, it gives a reason why an individual should consume coffee in the morning. Hence, I is strong.

Argument II: It talks about the effects of the consumption of coffee in large amounts. Hence, argument II is not strong.

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

Question 16 :

A force of 10 N is acting on an object. The object is displaced through 5 m in the direction of force. Then the work done is:

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. -50 J
2. 50 J
3. -50 N
4. 50 N

Solution :

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

Given,

Force = 10 N

Distance = 5 m
Find Work Done?

We Know that work done (W) = Force x Distance
 $W = 10 \times 5 \text{ Joule(J)}$
 $W = 50 \text{ J}$

Question 17 :

With which of the following sports is S.V. Sunil related?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Table tennis
2. Hockey
3. Badminton
4. Cricket

Solution :

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

- Somwarpet Vittalacharya Sunil (born 6 May 1989) is a retired Indian professional field hockey player.
- He won a silver medal at the 2014 Commonwealth Games and also participated in the 2012 London Olympics.

Question 18 :

Choose the correct option to complete the series.

Difficulty : Moderate

Average Time : 40 Seconds

Options :



3.



Solution :



The correct answer is **Option 1**.

Understanding

The two images at the first square are inverted vertically to make the second figure.

Similarly, the third figure is inverted to make the fourth figure.

The series is:



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

Question 19 :

Find the value of 0.7

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. 0.948
2. 0.598
3. 0.894



0.836

Solution :

The correct answer is **option 4** i.e. **0.836**

We will do this question by approximation.

The number is 0.7

Nearest squares are 0.64 and 0.81

We know that,

$$0.64 = 8 \text{ and } 0.81 = 9$$

So by eliminating the options, we can say that the answer will be either 0.894 and 0.836

Now, here, 0.7 is closer to 0.64 than 0.81

So, the answer should be 0.836

Question 20 :

Read the following information carefully and answer the question that is given below: Amrith is older than Manish, Vishnu is older than Manish but younger than Amrith. Dhivakar is younger than Rakesh and Manish. Manish is older than Rakesh. Who is the eldest?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Manish
2. Rakesh
3. Vishnu
4. Amrith

Solution :

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

Understanding

According to the question, the arrangement is as follows:

Amrith > Vishnu > Manish > Rakesh > Dhivakar

From the above arrangement, Amrith is the oldest.

Hence, **option 4** is the correct answer.

Question 21 :

Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement. Statement: Organisations that follow certain business ethics have better chances of survival, compared to those whose only goal is to earn profits. Assumptions: I. A written code of ethics to let the employees know the do's and dont's of an organization is important. II. Organisations should focus on training employees on the code of ethics.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

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

Solution :

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

Understanding



The statement talks about business ethics in an organization.

Assumption I is about written code that is to be followed by every employee in the organization. Hence, the assumption I is implicit.

Assumption II talks about the training for employees. Hence, assumption II is also implicit.

Hence, **Both I and II are implicit.**

Question 22 :

Two pipes X and Y can fill up a tank in 32 minutes and 16 minutes respectively. If both the pipes are opened simultaneously, after how much time should Y be closed, so that the tank is full in 20 minutes?

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

1. 6 minutes
2. 10 minutes
3. 4 minutes
4. 8 minutes

Solution :

The correct answer is **option 1** i.e. **6 minutes**

Given :

Tap X fills the tank in 32 minutes

Tap Y fills the tank in 16 minutes

Formula used :

LCM method used

Calculations :

Let the LCM of the two tanks be the capacity of tank



LCM of 32 and 16 is 32

X fills the tank = $32/32 = 1$ unit

Y fills the tank = $32/16 = 2$ units

Let t be the time for which tap Y is opened

Tap X is opened for 20 minutes, so

$$(1 \times 20 + 2 \times t = 32)$$

$$20 + 2t = 32$$

$$2t = 32 - 20$$

$$2t = 12$$

$$t = 6$$

Question 23 :

Consider the given statement and decide which of the given assumptions is/are implicit in the statement. Statement: "Beware of the dog", a signboard states. Assumptions: I. Dogs protect the home. II. Dogs are the most loyal animals.

Difficulty : Moderate

Average Time : 73 Seconds

Options :

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

Solution :

The correct answer is **option 2** i.e. **Only assumption I is implicit.**

Understanding

The statement is a caution signboard for the visitors.

We can assume that the main aim of keeping the dog is to be able to protect the home. Hence, the assumption I is implicit.

Assumption II is not implicit because the statement talks only about dogs.

Hence, **Only assumption I is implicit.**

Question 24 :

Babur made his first raid into India in _____.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 1519
2. 1521
3. 1535
4. 1544

Solution :

The correct answer is **option 1** i.e. **1519**.

- Babur made his first raid into India in the year 1519 A.D.
- He attacked with 2000 horsemen and captured Bajaur.
- He later captured Bhira in Punjab.

Question 25 :

A cylinder has the same height as the radius of its base. A hollow sphere has the same outer radius as that of the base of the cylinder while the inner radius is half of the outer radius. Find the ratio of the volumes of the cylinder to the hollow sphere.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 5:6

7:8

3. 6:7

4. 3:4

Solution :The correct answer is **option 3** i.e. **6:7****Given :**

Height of cylinder (H) = Radius of cylinder (R)

Outer radius of sphere = Radius of the cylinder (R)

Inner radius of sphere (r) = (Outer radius of sphere)/2

$$r = R/2$$

Formula used :

$$\text{Volume of cylinder} = \pi r^2 h$$

$$\text{Volume of hollow sphere} = \frac{4}{3} \pi (R^3 - r^3) \quad \text{----- (1)}$$

Calculations :Using equation (1) and put the given value of $r = R/2$

$$\text{Volume of hollow sphere} = \frac{4}{3} \pi (R^3 - (R/2)^3)$$

$$\frac{4}{3} \pi (R^3 - \frac{R^3}{8})$$

$$\frac{4}{3} \pi (\frac{7R^3}{8})$$

$$\text{Volume of cylinder} = \pi R^3$$

Ratio of the volumes of the cylinder to the hollow sphere is

$$\frac{\pi R^3}{\frac{4}{3} \pi (\frac{7R^3}{8})}$$

6 : 7.

Question 26 :

_____ give evidences of evolutionary relationships.

Difficulty : Moderate**Average Time : 78 Seconds****Options :**



Rocks

2. Ocean beds
3. River beds
4. Fossils

Solution :

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

- Rocks give evidence of evolutionary relationships.
- Many fossils have been found in the rocks of different ages.
- There are five lines of evidence that support evolution: the fossil record, biogeography, comparative anatomy, comparative embryology, and molecular biology.

Question 27 :

The plant in _____ group are commonly called algae.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Gymnosperm
2. Bryophyta
3. Pteridophyta
4. Thallophyta

Solution :

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

- The plants in the Thallophyta group are commonly called algae.
- The group Thallophyta includes plants that are without embryo.
- This group includes algae and fungi.

Question 28 :

As of 1st March 2018, who among the following is India's Permanent Representative to the United Nations?

Difficulty : Moderate

Average Time : 44 Seconds

Options :



Rajiv Kumar Chander

2. Hardeep Singh

3. Nirupam Sen

4. Nirupama Menon Rao

Solution :

The correct answer is **option 1** i.e. **Rajiv Kumar Chander**.

- As of 1st March 2018, Rajiv Kumar Chander is India's Permanent Representative to the United Nations.
- Prior to this appointment, he was the Consul General, Consulate General of India, Vancouver.
- The current Permanent Representative of India to UN is T. S. Tirumurti, who was appointed in April 2020.

Question 29 :

Force = _____

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. mass × acceleration
2. mass × volume
3. mass × pressure
4. mass × velocity

Solution :

The correct answer is **option 1** i.e. **mass × acceleration**.

- A force is a push or pull upon an object resulting from the object's interaction with another object.
- A force can cause an object with mass to change its velocity, i.e., to accelerate.
- A force has both magnitude and direction, making it a vector quantity.
- The force formula is defined by Newton's second law of motion: Force exerted by an object equals mass times acceleration of that object: $F = m \times a$.

Question 30 :

Find the odd figure out from among the given figures.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

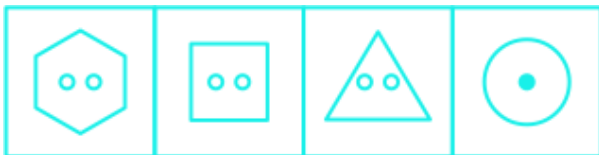
- B
- 2. C
- 3. A
- 4. D

Solution :

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

Understanding

Figures A, B, and C have two circles inside each figure, but in figure D there is only one circle.



Hence, **option 4** is the correct answer.

Question 31 :

Which two words were added to the Preamble of the Indian Constitution by the 42nd Amendment, in 1976?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

- 1. Socialist, Secular
- 2. Secular, Fraternity
- 3. Democratic, Republic
- 4. Justice, Liberty

Solution :

The correct answer is **option 1** i.e. **Socialist, Secular**.

- The 42nd Amendment changed the description of India from a "sovereign democratic republic" to a "sovereign, socialist secular democratic republic".

Hence, Socialist and Secular words were added through this amendment.

- It also changed the words "unity of the nation" to "unity and integrity of the nation".

Question 32 :

A fraction when taken away from $1/5$ gives $1/12$. What is the fraction?

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

1. $7/60$
2. $11/30$
3. $5/12$
4. $1/7$

Solution :

The correct answer is **option 1** i.e. $7/60$

Given :

$1/5$ is a fraction

Calculations :

Let x be a fraction taken away from $1/5$

$$1/5 - x = 1/12$$

$$1/5 - 1/12 = x$$

Take the LCM of the numbers, we get

$$(12 - 5)/60 = x$$

$$7/60 = x$$

Question 33 :

In Mendeleev's periodic table, _____ appeared before Nickel.

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

1. Co



Rb

3. Mo

4. Sr

Solution :

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

- In Mendeleev's periodic table, Co appeared before Nickel.
- The elements were arranged in increasing order of their atomic masses in the periodic table.
- However, Cobalt which has an atomic mass of 58.93 AMU appeared before Nickel with atomic mass 58.

Question 34 :

Sound generated by a single frequency is called _____.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. tone
2. wavelength
3. amplitude
4. pitch

Solution :

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

- Sound consisting of a single frequency is called a tone.
- The distance between 2 successive troughs or crests of a wave is known as wavelength.
- A sound produced after the mixing of several frequencies is known as a note.
- Pitch is the degree of lowness or highness of a tone.

Question 35 :

The sum of $5/12$ and $12/5$ is:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. $17/60$
2. $60/17$



17/17

4. 169/60

Solution :The correct answer is **option 4** i.e. **169/60****Given :**

Two numbers are given :

5/12 and 12/5

Calculations :

Sum of 5/12 and 12/5 is

$$5/12 + 12/5$$

Take the LCM of the numbers, we get

$$\left(\frac{5 \times 5 + 12 \times 12}{60}\right)$$

$$(25 + 144)/60$$

$$169/60.$$

Question 36 :

-3, -8, -13, -18, _____ the sum of first 10th term in the sequence is:

Difficulty : Moderate**Average Time : 45 Seconds****Options :**

1. -250

2. -260

3. -255

4. -245

Solution :The correct answer is **option 3** i.e. **-255****Given :**

Number of terms (n) = 10

First term (a) = -3

Difference (d) = -5

Formula used :

Sum of n terms = $\frac{n}{2}(2a + (n-1)d)$ ----- (1)

Calculations :

Using equation (1) and putting the given values

Sum = $\frac{10}{2}(2 \times -3 + (10-1) \times -5)$

5(-6 + (9)(-5))

5(-6 - 45)

5(-51)

-255

Question 37 :

Identify the avid mountaineer who, in May 2017, became the first woman in the world to scale Mount Everest twice in a season. She holds the record of fastest double ascent by a woman to the world's highest peak?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Anshu Jamsenpa
2. Malavath Purna
3. Arunima Sinha
4. Premlata Agrawal

Solution :

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

- Anshu Jamsenpa, in May 2017, became the first woman in the world to scale Mount Everest twice in a season.
- She did this in just 5 days.
- She also holds the record for fastest double ascent by a woman to the world's highest peak.

Question 38 :

Who took Oath on 23rd January, 2018 as the Governor of Madhya Pradesh?



Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Om Prakash Kohli
2. Kumud Ben Joshi
3. Ram Naresh Yadav
4. Anandiben Patel

Solution :

The correct answer is **option 4** i.e. **Anandiben Patel**.

- Uttar Pradesh Governor Anandiben Patel took oath as governor of Madhya Pradesh for the second time.
- Chief Justice of Madhya Pradesh High Court, Ajay Kumar Mittal administered her the oath of office.
- The appointment of the Governor is mentioned under Article 155 of the Indian Constitution.

Question 39 :

If you invest Rs 100 at 40% annual interest compounded quarterly, how much will you receive after one year?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Rs 145.61
2. Rs 146.41
3. Rs 149.01
4. Rs 148.11

Solution :

The correct answer is **option 2** i.e. **Rs 146.41**

Given :

Principal = 100

Rate = 40%

time = 1 year

Formula used :

Amount = Principal $(1 + \text{rate}/100)^{\text{time}}$ ----- (1)

**Calculations :**

If the interest is compounded quarterly, time and rate changes

t becomes 4t and r become r/4

$$r = 40/4 = 10\%$$

Using formula (1), we get

$$\text{Amount} = 100(1 + 10/100)^4$$

$$\text{Amount} = 100(11/10)^4$$

$$\text{Amount} = 14641/100$$

$$\text{Amount} = 146.41$$

Question 40 :

Which of the following is a reducible fraction?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 77/72
2. 105/112
3. 104/121
4. 5/49

Solution :

The correct answer is **option 2** i.e. **105/112**

Only 105 and 112 are the multiple of 7.

All other numbers (77 and 72; 104 and 121; 5 and 49) are co-prime numbers.

So, 105/112 can be reduced to 15/16.

Question 41 :

Which of the answer figures is formed from the shapes given the problem figure? Problem figure: Answer figures:

Difficulty : Moderate

Average Time : 38 Seconds

Options :

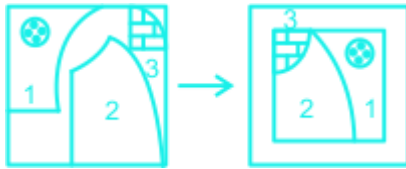
- D
- 2. C
- 3. B
- 4. A

Solution :

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

Understanding

The figure formed from the shape of given figures;

**Question 42 :**

The Indian Space Research Organisation (ISRO) created the world's third -largest hypersonic wind tunnel in:

Difficulty : Moderate

Average Time : 47 Seconds

Options :

- 1. Jaisalmer
- 2. Gokarna
- 3. Thiruvananthapuram
- 4. Ahmedabad

Solution :

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

- India has opened a new Hypersonic Wind Tunnel (HWT) test facility in Thiruvananthapuram.
- Now India has become only the third nation globally after the United States and Russia to have such large capabilities in terms of size and operations.
- Important parts of the wind tunnel include air storage vessels, a settling chamber where the air flow is 'smoothened', and nozzles through which the air is let into the test section.

Question 43 :

An object of mass 12 kg is at a certain height above the ground. If the potential energy of the object is 600J, find the height at which the object is with respect to the ground. Given $g=10\text{ms}^{-2}$

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 5m
2. 5ms^{-2}
3. 5ms^2
4. -5m

Solution :

The correct answer is **option 1** i.e. **5m**.

- Given that :
- Mass (m) = 12 kg
- Potential Energy (PE) = 600J
- Acceleration due to gravity (g) = 10m/s^{-1}
- We know that, Potential energy = mgh
- $h = \text{Potential energy}/mg = 600/(12 \times 10) = 5\text{m}$.
- Hence, the object is 5 m above with respect to the ground.

Question 44 :

The Saraswati Samman Award 2016 was bestowed upon:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. A.A. Manavalan
2. Padma Sachdev
3. Mahabaleshwar Sail
4. Sugathakumari

Solution :

The correct answer is **option 3** i.e. **Mahabaleshwar Sail**.

- Saraswati Samman is an annual award bestowed upon an Indian citizen for his outstanding literary work written in any 22 Indian language mentioned in Schedule VIII of Constitution and published during last 10 years.



It is considered one of the highest literary awards in India.

- Eminent Konkani writer Mahabaleshwar Sail (74) was bestowed with prestigious Saraswati Samman 2016.
- He was awarded for his novel "Hawthan (àà¹àà³¼ààµààŸàà£)" that captures cultural lives of traditional potter community in Goa.

Question 45 :

'Nuakhai', a social festival belongs to which state of India?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Tamilnadu
2. Assam
3. Odisha
4. Karnataka

Solution :

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

- Nuakhai is a crop festival celebrated by people of Western Odisha and Southern Chhattisgarh, to welcome the new rice of the season.
- Nua means new and khai means food.
- It is celebrated 1 day after the celebration of Ganesh Chaturthi.

Question 46 :

What is the process by which gas is converted into a solid?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Condensation
2. Deposition
3. Vaporisation
4. Freezing

Solution :

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



Deposition is a thermodynamic process, a phase transition in which gas transforms into solid.

- Water vapor transforms directly into ice without becoming a liquid, a process that often occurs on windows during the winter months.
- The inverse process where a solid directly transitions to a gas is called sublimation.

Question 47 :

x and y, given correct to 1 decimal place, are given as 6.5 and 1.3 respectively. What is the upper bound of the value of x/y ?

Difficulty : Moderate**Average Time : 51 Seconds****Options :**

1. 5
2. 4.77
3. 5.05
4. 4.96

Solution :

The correct answer is **option 1** i.e. 5

Given :**Calculations :**

$$x/y = 6.5/1.3$$

Removing the decimal, we get

$$x/y = 65/13$$

$$x/y = 5$$

Hence, the upper bound of the value of x/y is 5.

Question 48 :

Which alpha-numeric set will follow in the given series? 12E, 15B, 18Y, 21V, ?

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

1. 20V



25G

3. 24S

4. 28T

Solution :

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

Understanding

The logic which follows here is:

Given series: 12E, 15B, 18Y, 21V, ?

The numbers are increasing by adding 3 in it.

$12 + 3 = 15$, $15 + 3 = 18$, $18 + 3 = 21$, $21 + 3 = 24$.

The letters are decreasing by subtracting 3 in it.

$E - 3 = B$, $B - 3 = Y$, $Y - 3 = V$, $V - 3 = S$

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

Question 49 :

Find the next figure for the given series: Problem figures Answer figures:

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. A

2. B

3. C

4. D

Solution :

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

Understanding

The logic used here is:

In each figure, there is an alphabet and its mirror image

The sequence of figures:

**Question 50 :**

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). Statements: I. All pigs are white. II. Some white are peacocks. Conclusions: 1. Some peacocks are pigs. 2. Some white are pigs.

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

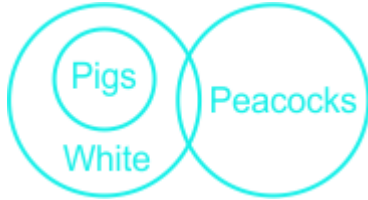
1. Both 1 and 2 follows.
2. Neither 1 nor 2 follows
3. Conclusion 2 alone follows.
4. Conclusion 1 alone follows.

Solution :

The correct answer is **option 3** i.e. **Conclusion 2 alone follows.**

Understanding

The least possible Venn Diagram for the given statements is drawn below:



Conclusions:

I. Some peacocks are pigs **False** (It is possible but not definite, as no direct relationship between the two is given).

II. Some white are pigs **True** (As all pigs are white, so some white are pigs.)

Hence, **Only Conclusion 2 follows.**

Question 51 :

Find the next letter set in the given series. CV, ET, HQ,?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. LM
2. LG
3. MX
4. LK

Solution :

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

Understanding

Given series: CV, ET, HQ, ?

The series follows the pattern:

$$C + 2 = E$$

$$V - 2 = T$$

$$E + 3 = H$$

$$T - 3 = Q$$

$$H + 4 = L$$

$$Q - 4 = M$$

So, the next term in the series is **LM**.

Question 52 :

Objects move with a constant speed when no _____ is acting on it.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. pressure
2. inertia
3. force
4. momentum

Solution :

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

- When the objects move at a constant speed, there would be no acceleration.
- The acceleration would be zero when there is no force acting on it.
- This phenomenon is first declared by Galileo Galilei.

Question 53 :

Areolar tissue fills the spaces _____ the organs, supports the _____ organs and repair tissues.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

outside; internal

2. outside; external

3. inside; internal

4. inside; external

Solution :

The correct answer is **option 3** i.e. **inside; internal**.

- Areolar tissue fills the space inside the organs and supports internal organs and helps in the repair of tissue.
- Areolar connective tissue is found between the skin and muscles, around blood vessels and nerves, and in the bone marrow.

Question 54 :

Pick the figure that will complete the given series. Problem Figures: Answer Figures:

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**.

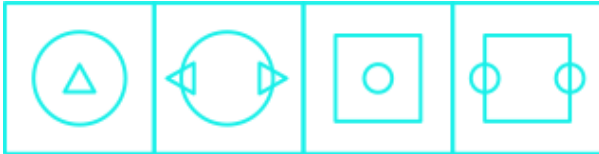
Understanding

The logic used here is:

The inner element moves to the horizontal sides of the outer figure.

In the next figure, the circles will move to the horizontal side of the square.

The sequence of figures:

**Question 55 :**

Kaushik bought a toy for Rs 180 and sold it for Rs 202.50. The rate of profit was _____ %.

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

1. 15.25
2. 12.5
3. 16
4. 17.5

Solution :

The correct answer is **option 2** i.e. **12.5**

Given :

Cost price = Rs 180

Selling price = Rs 202.5

Formula used :

$$\text{Profit} = \text{SP} - \text{CP} \quad \text{----- (1)}$$

$$\text{Profit \%} = \frac{\text{Profit}}{\text{CP}} \times 100 \quad \text{----- (2)}$$

Calculations :

Using formula (1), we get

$$\text{Profit} = 202.5 - 180$$

$$\text{Profit} = 22.5$$

Using formula (2), we get

$$\text{Profit \%} = \frac{22.5}{180} \times 100$$

$$\text{Profit \%} = 25/2$$

$$\text{Profit \%} = 12.5$$

Question 56 :

A body travelling with a speed of more than the velocity of sound air is said to be _____.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Ultrasonic
2. Infrasonic
3. Supersonic
4. Hypersonic

Solution :

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

- A body travelling by a speed of more than the velocity of sound is said to be Supersonic.
- The vibrations which have frequencies greater than the upper limit of the human audible range, i.e., above 20kHz, are called Ultrasonic.
- The vibrations which have frequencies lower than the lower limit of the human audible range, i.e., below 20Hz, are called Infrasonic.
- Hypersonic speed is more than 5 times the sound's speed or frequencies above 1000 million Hz.

Question 57 :

$$138 \div [35 - \{53 - (89 - 72 \div 9 \times 6)\}] = ?$$

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 2



6

3. 23

4. 3

Solution :The correct answer is **Option 2** i.e. 6.**Understanding**Given equation: $138 \div [35 - \{53 - (89 - 72 \div 9 \times 6)\}] = ?$

$$= 138 \div [35 - \{53 - (89 - 8 \times 6)\}]$$

$$= 138 \div [35 - \{53 - (89 - 48)\}]$$

$$= 138 \div [35 - \{53 - (41)\}]$$

$$= 138 \div [35 - \{12\}]$$

$$= 138 \div 23$$

$$= 6$$

Hence, **option 2** is the correct answer.**Question 58 :**

A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.

Statement: There is more wastage of water due to water purifiers. Arguments: I. Yes, houses should adopt ways to reuse the excess water produced from the filters so that it can be given back to the land. II. No, it enters the sewage system and automatically goes back.

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Only argument I is strong
2. Only argument II is strong
3. neither I nor II is strong
4. Both I and II are strong.

Solution :

The correct answer is **Option 1** i.e. **Only argument I is strong.**

Understanding

The statement talks about water wastage due to water purifiers.

Argument I: It suggests a method to reuse the water. Hence, I is strong.

Argument II: No, it denies the fact that the water is wasted. Hence, argument II is not strong.

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

Question 59 :

The average marks obtained by Suvir in 15 tests in 29. Ruchira has maintained an average of 27 so far but has taken only 11 of the tests so far. How much does Ruchira have to score on an average in the remaining four tests to match Suvir's performance?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 36
2. 35.5
3. 34.5
4. 35

Solution :

The correct answer is **Option 3** i.e. **34.5.**

Understanding

Average marks of Suvir in 15 tests = 29
Sum of 15 tests by Suvir = $29 \times 15 = 435$
Average marks of Ruchira in 11 tests = 27
Sum of 11 tests by Ruchira = $27 \times 11 = 297$
Tests that are left for Ruchira = $15 - 11 = 4$
Remaining marks to be scored by Ruchira =
 $435 - 297 = 138$
Average of these 4 tests = $138 \div 4 = 34.5$
Hence, **option 3** is the correct answer.

Question 60 :

A sum of money when invested for 5 years gives Rs 5,250 as the amount. If the simple rate of interest was 2% per annum more than what it was, the amount would have been Rs 5,600. The original sum invested was:

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

1. Rs 4,000
2. Rs 3,250
3. Rs 3,750
4. Rs 3,500

Solution :

The correct answer is **option 4** i.e. **Rs 3,500**

Given :

Time = 5years

Amount = Rs 5,250

Formula used :

Simple interest = $\frac{P \times R \times T}{100}$

Amount = Principal + Interest

**Calculations :**

Using formula (1) and (2), we get

$$(P + (P \times R \times 5)/100 = 5250)$$

$$100P + 5PR = 5250 \times 100$$

$$5PR = (5250 \times 100) - 100 \quad \text{----- (3)}$$

If the rate of interest is 2% more, amount will be 5600

$$P + (P \times (R + 2) \times 5)/100 = 5250$$

$$100P + 5PR + 10P = 560000$$

$$5PR = 560000 - 110P \quad \text{----- (4)}$$

Using equation (3) and (4), we get

$$525000 - 100P = 560000 - 110P$$

$$110P - 100P = 560000 - 525000$$

$$10P = 35000$$

$$P = 3500$$

Question 61 :

Padma is the sister of Suresh's mother. How is Padma related to Suresh?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Grandmother
2. Mother
3. Sister
4. Aunt

Solution :

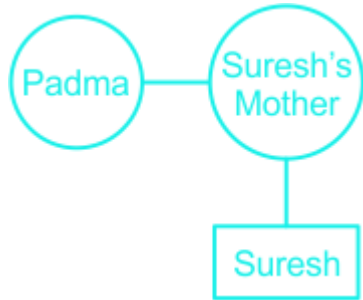
The correct answer is **Option 4** i.e. **Aunt**.

Understanding



In the diagram shown;

Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.



Thus considering the figure, Padma is the aunt of Suresh.

Hence, **option 4** is the correct answer.

Question 62 :

A porter lifts a luggage of 12 kg from the ground and puts it on his head 1.5 m above the ground. Calculate the work done by him on the luggage. ($g = 10 \text{ ms}^{-2}$)

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. 140 J
2. 180 J
3. 150 J
4. 155 J

Solution :

The correct answer is **option 2** i.e. **180 J**

Mass of Luggage (m) = 12 Kg

Height (h) = 1.5m

$g = 10 \text{ ms}^{-2}$ (given)

So,

work done = $mgh = 12 \times 1.5 \times 10 = 180$ Joule.

Question 63 :

A car accelerates uniformly from 18 kmh⁻¹ to 36kmh⁻¹ in 5 s. Calculate the acceleration of the car.

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 1 ms^{-2}
2. 4 ms^{-2}
3. 4 ms^2
4. 1 ms^2

Solution :

The correct answer is **option 1** i.e. 1 ms^{-2} .

- We know that
- Initial velocity (u) = 18km/hr = 5m/s
- Final velocity (v) = 36km/hr = 10m/s
- acceleration $a = (v - u)/t$
- Substituting the given values in the above equation we get,
- $a = (10 - 5)/5$
- $a = 5/5$
- $a = 1 \text{ m/s}^2$

Question 64 :

Which of the following statements is/are true? A. CO₂ is known as dry ice. B. The particles of liquid absorb energy from the surrounding to regain the energy lost during evaporation. C. Solid CO₂ gets converted directly to gaseous state.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. All are false

A and C are false, B is true

3. A and C are true, B is false

4. All are true

Solution :

The correct answer is **option 1** i.e. **All are true**.

- Dry ice is the solid form of carbon dioxide (CO₂). It's called "dry ice" because it does not melt like wet ice. Instead, dry ice converts into carbon dioxide gas.
- Solid CO₂ gets converted into the gaseous state by decreasing the pressure to 1 atmosphere without coming into the liquid state.
- During evaporation, the particles of liquid absorb energy from the surrounding to regain the energy lost.

Question 65 :

Arjun was born on 1st January 2007, Monday. What day of the week lies on 1st January 2008?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Sunday
2. Tuesday
3. Friday
4. Wednesday

Solution :

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

Understanding

The number of days in a year = 365

Number of weeks in a year = $365 \div 7 = 52$
weeks + 1 day

So that one day will be in the next year that is
on 1st January 2008 which is a Tuesday.

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

Question 66 :



Unsaturated hydrocarbons add hydrogen in the presence of catalysts such as:

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Nickel and cadmium
2. Nickel and Hydrogen
3. Nickel and Palladium
4. Palladium and Radium

Solution :

The correct answer is **option 3** i.e. **Nickel and Palladium**.

- Unsaturated hydrocarbons add hydrogen in the presence of Nickel and Palladium.
- Through this process, the unsaturated hydrocarbons get converted into saturated ones.
- This process is known as addition reaction.

Question 67 :

Who among the following was called the 'Iron Chancellor'?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Napoleon Bonaparte
2. Genghis Khan
3. Otto Von Bismarck
4. Adolf Hitler

Solution :

The correct answer is **option 3** i.e. **Otto Von Bismarck**.

- Germany became a modern, unified nation under the leadership of the "Iron Chancellor" Otto von Bismarck (1815-1898), who between 1862 and 1890 effectively ruled first Prussia and then all of Germany.
- Prince Bismarck continued to make the new empire stronger until he was dismissed by a new emperor in 1890.
- He got his nickname, 'The Iron Chancellor', when he said that Germany could only become a great power through blood and iron.

Question 68 :

Who among the following is the Minister of External Affairs?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Subrahmanyam Jaishankar
2. SM Krishna
3. Salman Khurshid
4. Manmohan Singh

Solution :

The correct answer is **option 1** i.e. **Subrahmanyam Jaishankar**.

- The current Minister of External Affairs is Subrahmanyam Jaishankar, succeeding Sushma Swaraj of the Bharatiya Janata Party on 30 May 2019.
- The Ministry of External Affairs of India is the government agency responsible for maintaining foreign relations of India
- The Ministry represents the Government of India through embassies and is also responsible for India's representation at the United Nations and other international organizations.

Question 69 :

Dalton's theory was based on the laws of:

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Conservation of momentum
2. Conservation of mass
3. Chemical combination
4. Constant proportion

Solution :

The correct answer is **option 3** i.e. **Chemical combination**.

- When substances react, they do so by following certain laws. these laws are called the laws of chemical combination.
- These formed the basis of Dalton's atomic theory of matter.

Question 70 :



Select the option that is related to the third word on the same basis as the second word is related to the first word. Wait: Linger:: Bite:?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Gnaw
2. Murmur
3. Hiss
4. Eat

Solution :

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

Understanding

The logic used here is:

Wait: Linger

Wait and linger are synonyms which means to stay in a place longer than necessary because of a reluctance to leave.

Similarly;

Bite:?

Bite and gnaw are synonyms which means to bite at or nibble something persistently.

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

Question 71 :

What are the roots of the equation $2x^2 + 4x = 30$?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 2, -15



6, 5

3. -5, 3

4. 10, 3

Solution :

The correct answer is **option 3** i.e. **-5, 3**

Given :

$$2x^2 + 4x = 30$$

Calculations :

Divide the given equation by 2, we get

$$x^2 + 2x = 15$$

$$x^2 + 2x - 15 = 0$$

Using factorization, we get

$$x^2 + 5x - 3x - 15 = 0$$

$$x(x + 5) - 3(x + 5) = 0$$

$$(x + 5)(x - 3) = 0$$

$$x = -5 \text{ and } 3$$

Question 72 :

Name the service launched by the Central Government which will be available across the Common Service Centre (CSC) network and connect citizens to legal service providers with the help of technology-enabled platforms.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 'Madadgar'
2. 'Tele-Law'
3. 'Retro-Fitment'
4. 'Digi Yatra'

Solution :

The correct answer is **option 2** i.e. **'Tele-Law'**.

- In its effort to make legal aid easily accessible to the marginalized communities and citizens living in rural areas, the Government of India has launched the 'Tele-Law'.
- The Ministry of Law and Justice partnered with the Ministry of Electronics and Information Technology (MeitY), which anchors the Digital India programme, to provide legal aid services through its Common Service Centres (CSC) at the panchayat level, spread across the country.
- 'Tele-Law' will enable people to seek legal advice from lawyers through video conferencing available at the Common Service Centres (CSC).

Question 73 :

How many hydrogen atoms are present in one molecule of ethanol?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Six
2. Four
3. Seven
4. Five

Solution :

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

- The ethanol is a monohydric alcohol with the formula $\text{CH}_3\text{-CH}_2\text{-OH}$.
- We can count the hydrogen atoms in ethanol.
- There are 3 H atom at beta position, 2 H atom at alpha position and 1 H atom in the hydroxyl group OH that is total 6 H atom in the ethanol compound.

Question 74 :

Which of the following reaction is a precipitation reaction?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Calcium carbonate + Calcium oxide + Carbon dioxide
2. Sodium sulphate + Barium chloride + Barium sulphate + Sodium chloride
3. Lead + Copper chloride + Lead chloride + Copper

Methane + Oxygen Carbon dioxide + Water

Solution :

The correct answer is **option 2** i.e. **Sodium sulphate + Barium chloride Barium sulphate + Sodium chloride**

Question 75 :

You are given a question and two statements, Identify which of the statements is/are necessary/sufficient to answer the question: Question: How many sons does X have? Statements: Y and Z are brothers of W. The mother of Z is the wife of W's father.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 1 alone is sufficient while 2 alone is not sufficient
2. Neither 1 nor 2 alone is sufficient
3. Both 1 and 2 together are sufficient
4. 2 alone is sufficient while 1 alone is not sufficient

Solution :

The correct answer is **Option 2** i.e. **Neither 1 nor 2 alone is sufficient.**

Understanding
<p>From statement 1, we cannot derive any conclusion about X as there is no relation. Hence, I alone is not sufficient.</p> <p>From statement 2 also we cannot derive any conclusion. Hence, II alone is also not sufficient.</p> <p>Thus, Neither 1 nor 2 alone is sufficient.</p>

Question 76 :

The sum of the interior angles of a regular heptagon (seven-sided polygon) is:

Difficulty : Moderate

Average Time : 58 Seconds

Options :



1080°

2. 720°

3. 540°

4. 900°

Solution :

The correct answer is **option 4** i.e. **900°**

Given :

Total sides of the polygon(n) = 7

Formula used :

Sum of interior angle of polygon = $(n - 2) * 180^\circ$ ----- (1)

Calculations :

Using formula (1), we get

Sum of interior angle of a heptagon = $(7 - 2) * 180$

5 * 180

900°

Question 77 :

In August 2018, Hindalco's wholly owned subsidiary Novelis Inc. announced the acquisition of a global aluminum rolled products company that is headquartered in the US. Name the acquired company.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Century Aluminum
2. Alcoa Corporation
3. U.S.Foil Company
4. Aleris Corporation

Solution :

The correct answer is **option 4** i.e. **Aleris Corporation.**

In August 2018, Hindalco's wholly owned subsidiary Novelis Inc. announced the acquisition of a global aluminum rolled products company Aleris Corporation, that is headquartered in the US.

- The acquisition of the Aleris Corporation, positions Hindalco as one of the world's largest aluminium companies, with a global footprint spanning 49 state-of-the-art manufacturing facilities in North America, Europe and Asia.
- Kumar Manglam Birla is the chairman of Hindalco.

Question 78 :

Choose the mirror image for the following figure:

Difficulty : Moderate

Average Time : 52 Seconds

Options :

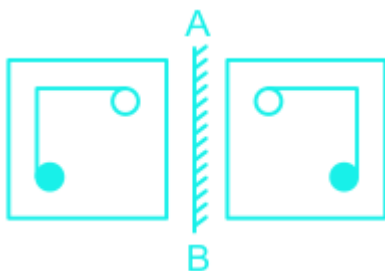
1. D
2. C
3. A
4. B

Solution :

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

Understanding

The mirror image of the question figure is shown below:



Since the mirror is placed right to the question figure, the right-hand side of the original image will be now the left-hand side of the mirror image.

Hence, **option 4** is the correct answer.

Question 79 :



Samu spent $\frac{1}{4}$ of his money on books and $\frac{1}{8}$ on food. If he is left with Rs 40, how much did he spend on food?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Rs 12
2. Rs 8
3. Rs 6
4. Rs 10

Solution :

The correct answer is **option 2** i.e. **Rs 8**

Given :

Samu spent $\frac{1}{4}$ of his money on books

Samu spent $\frac{1}{8}$ on food

Remaining money is Rs 40

Calculations :

Let Samu have x amount of total money

Money spent on books = $(x \times \frac{1}{4}) = \frac{x}{4}$

Money spent on food = $(x \times \frac{1}{8}) = \frac{x}{8}$

Remaining money = Total money - (Money spent on books and food)

$$40 = x - (\frac{x}{4} + \frac{x}{8})$$

$$40 = x - (\frac{3x}{8})$$

$$40 = \frac{5x}{8}$$

$$x = 64$$

Money spent on food = $\frac{x}{8} = \frac{64}{8}$

8.

Question 80 :

The following chart shows the results of three athletic academies in the district level selections for three years. Academy



2012 2013 2014 A 2 3 4 B 1 5 2 C 3 7 9 How many selections were done in the year 2014 for academy 'C'?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 19
2. 9
3. 7
4. 3

Solution :

The correct answer is **option 2** i.e. **9**

Calculations :

As given in the table Academy C's Selections are

Academy	2012	2013	2014
C	3	7	9

Selections in the year 2014 for academy 'C' are 9.

Question 81 :

The following pie chart shows the expenditure of company XYZ in Q3 2015 on various heads. If company XYZ has spent a total of Rs 100 lakh crores on the various heads then how much did it spend on R & D (in lakh crores)?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. 20
2. 10
3. 30
4. 40

Solution :



The correct answer is **option 4** i.e. **40**

Given :

XYZ has spent a total of Rs 100 lakh crores

Calculations :

Share of R & D = 40%

Share of R & D = $\left(\frac{40}{100}\right) \times 100$

Money spend on R & D = 40 crore

Question 82 :

In a hostel, there is stock of 6,190.80 kg of wheat for feeding 105 students for 22 days. After 5 days, 14 students joined the hostel. How many days will the balance wheat feed the students, if all students consume the same quantity per day?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 11 days
2. 15 days
3. 13 days
4. 17 days

Solution :

The correct answer is **option 2** i.e. **15 days**

Given :

$M_1 = 105, D_1 = 22$

$M_2 = 105, D_2 = 5$

$M_3 = 119$

Formula used :

Total work(1) = Total Work(2)

$(M_1 \times D_1 = M_2 \times D_2 + M_3 \times D_3)$ ----- (1)

Calculations :



Using formula (1), we get

$$(105 \times 22 = 105 \times 5 + 119 \times D_3)$$

$$2310 = 525 + 119D_3$$

$$119D_3 = 2310 - 525$$

$$119D_3 = 1785$$

$$D_3 = 1785/119$$

$$D_3 = 15 \text{ days}$$

Question 83 :

In which of the following oceans is the Republic of Seychelles located?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Pacific Ocean
2. Indian Ocean
3. Atlantic Ocean
4. Arctic Ocean

Solution :

The correct answer is **option 2** i.e. **Indian Ocean**.

- Seychelles, island republic is located in the western Indian Ocean.
- It is comprising about 115 islands, with lush tropical vegetation, beautiful beaches, and a wide variety of marine life.
- Victoria city is the capital of Seychelles.

Question 84 :

The mean of the 5 smallest numbers from a group is 18 while the mean of all the 13 members of the group taken together is 20. What is the mean of the 8 largest numbers?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 22.50



22.75

3. 21.75

4. 21.25

Solution :

The correct answer is **option 4** i.e. **21.25**

Given :

Mean of the 5 smallest numbers from a group is 18

Mean of all the 13 members of the group taken together is 20.

Formula used :

Mean = Sum of all numbers/total numbers ----- (1)

Calculations :

Using formula (1), we get the sum of 5 smallest number

$$5 * 18 = 90$$

Using formula (1), we get the sum of all 13 numbers

$$13 * 20 = 260$$

The sum of the remaining 8 numbers is

$$260 - 90 = 170$$

The mean of the 8 numbers is

$$\text{Mean} = \text{Sum/Total numbers}$$

$$\text{Mean} = 170/8$$

$$\text{Mean} = 21.25$$

Question 85 :

Who among the following won the 53rd Jnanpith Award for the year 2017?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

amar Kant

2. Kedarnath Singh

3. Pratibha Ray

4. Krishna Sobti

Solution :

The correct answer is **option 4** i.e. **Krishna Sobti**.

- Krishna Sobti, the renowned Hindi litterateur, will be honored with the 53rd Jnanpith Award for the year 2017.
- The decision was announced by the Jnanpith Selection Board at a meeting of the selection committee held on 3 November 2017.
- The meeting was chaired by renowned Hindi critic Namwar Singh.
- Jnanpith award is the highest literary award of the country. It was established in 1961.

Question 86 :

Which of the following inert gases is placed in period 5?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Ne
2. Rn
3. Xe
4. Ar

Solution :

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

- The Noble or Inert Gases. Group 8A (or VIIIA) of the periodic table are the noble gases or inert gases: helium (He), neon (Ne), argon (Ar), krypton (Kr), xenon (Xe), and radon (Rn).
- The name comes from the fact that these elements are virtually unreactive towards other elements or compounds.
- Xe, or Xenon, an inert gas, is placed in period 5 of the periodic table.

Question 87 :

The resistivity of a conductor depends on:

Difficulty : Moderate

Average Time : 49 Seconds

Options :



Material

2. Area of cross section
3. All of the given options
4. Length

Solution :

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

- The resistivity of a material is the property which depends on the composition and the nature of the material.
- The composition is affected by the temperature.

Question 88 :

Find SP when MP = 160 and discount = 12%?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 140.80
2. 160.80
3. 132.80
4. 100

Solution :

The correct answer is **option 1** i.e. **140.80**

Given :

MP = 160 and discount = 12%

Formula used :

$$\backslash(SP = \frac{(100-\text{Discount})}{100} \times MP) \quad \text{----- (1)}$$

Calculations :

Using formula (1), we get

$$\backslash(SP = \frac{(100-12)}{100} \times 160)$$



$$\text{SP} = \frac{88}{100} \times 160$$

$$\text{SP} = 14080/100$$

$$\text{SP} = 140.80$$

Question 89 :

If in a code, TRUCK is written as RPSAI, how will TOOL be written as in that code?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. JMRJ
2. RJKM
3. RMMJ
4. RMJM

Solution :

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

Understanding



The logic used here is:

TRUCK is written as RPSAI

$$T - 2 = R$$

$$R - 2 = P$$

$$U - 2 = S$$

$$C - 2 = A$$

$$K - 2 = I$$

Similarly;

Code for the word TOOL;

$$T - 2 = R$$

$$O - 2 = M$$

$$O - 2 = M$$

$$L - 2 = J$$

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

Question 90 :

Nm⁻² is the SI unit of:

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Pressure
2. Work
3. Power
4. Force

Solution :

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

- Pressure is defined as force applied per unit area.
- Hence, its SI unit is N/m² or pascal.

$$1 \text{ Pascal} = 1 \text{ N/m}^2.$$

Question 91 :

If East becomes North-East then what will West become?

Difficulty : Moderate**Average Time : 40 Seconds****Options :**

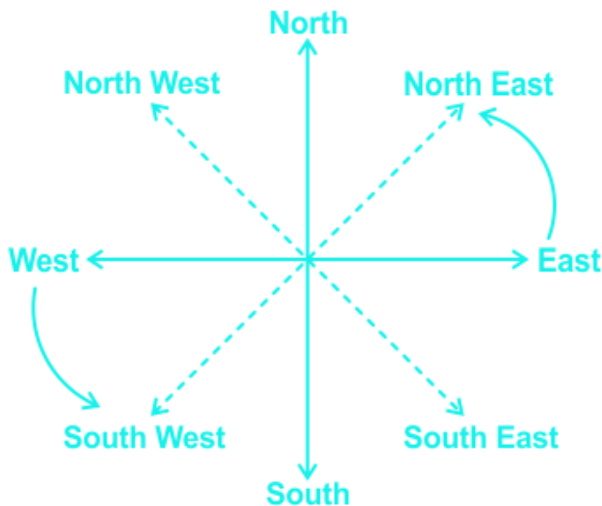
1. South-West
2. South-East
3. North-West
4. North-East

Solution :

The correct answer is **option 1** i.e. **South-West**.

Understanding

If North becomes North-East, then the directions have moved 45 degrees anti-clockwise.



Hence, the west will move 45 degrees in the anti-clockwise direction. So, Now the west becomes South-West.

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

Question 92 :

Two pipes feed a water tank at the rate of 2 liters/minute and 3 liters/minute. A third pipe draws out water at a rate of 6 liters/minute. The capacity of the tank is 100 liters and it is full of water. How many minutes would it take to make the tank empty if the three pipes are opened simultaneously?

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

1. 125
2. 75
3. 100
4. 50

Solution :

The correct answer is **option 3** i.e. **100**

Given :

First Pipe feed the water in 1 min = 2 liters

Second Pipe feed the water in 1 min = 3 liters

Third Pipe draws out the water in 1 min = 6 liters

Calculations :

First Pipe feed the water in 1 min = 2 liters

Second Pipe feed the water in 1 min = 3 liters

Third Pipe draws out the water in 1 min = 6 liters

If all three pipes opens simultaneously = $2 + 3 - 6 = - 1$ liters/min

Capacity of the tank = 100 liters

Time taken to empty the tank if all three pipes opened simultaneously

Capacity/efficiency

100/1

100 minutes

**Question 93 :**

Ohm is the SI unit of _____.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. electric charge
2. electric current
3. potential difference
4. resistance

Solution :

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

- The ohm (symbol: Ω) is the SI-derived unit of electrical resistance, named after German physicist Georg Ohm.
- The ohm is defined as an electrical resistance between two points of a conductor when a constant potential difference of one volt, applied to these points, produces in the conductor a current of one ampere, the conductor not being the seat of any electromotive force.

Question 94 :

What is the chemical name of Chinese salt that we use in preparing Chinese Cuisine?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Calcium hypochlorite
2. Calcim carbonate
3. Sodium benzoate
4. Monosodium glutamate

Solution :

The correct answer is **option 4** i.e. **Monosodium glutamate**.

- Monosodium glutamate is the chemical name of Chinese salt that we use in preparing Chinese cuisine.
- It is also known as Ajinomoto.
- It is a white crystalline substance, a sodium salt of the amino acid glutamic acid.

Question 95 :

Choose the correct picture that fits the blank place.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

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

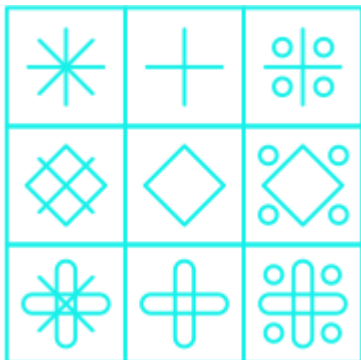
Solution :

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

Understanding

The logic used here is:

In the last part of the figure, the four small circles are on the outer side of the figure.



Question 96 :

The HCF of 66, 198 and 154 is _____.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 44



66

3. 22

4. 33

Solution :

The correct answer is **option 3** i.e. **22**

Given :

66, 198 and 154 are the three numbers

Formula used :

Factorization method

Calculations :

Using the factorization method, we get

$$(66 = 2 \times 3 \times 11)$$

$$(198 = 2 \times 3^2 \times 11)$$

$$(154 = 2 \times 7 \times 11)$$

$$(\text{HCF of 66, 198 and 154 is } 2 \times 11)$$

22

Question 97 :

Anusri is eleven years younger than Yashomati. Fifteen years from now, Yashomati's age will be three times Anusri's present age. What is Yashomati's present age?

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

1. 21 years

2. 24 years

3. 20 years

4. 23 years

Solution :

The correct answer is **Option 2** i.e. **24 years**.

Understanding

Let the age of Yashomati = x

Then age of Anusri = $x - 11$

According to the question;

$$15 + x = 3(\text{age of Anusri})$$

$$15 + x = 3(x - 11)$$

$$15 + x = 3x - 33$$

$$2x = 48$$

$$x = 24$$

Age of Yashomati = 24years

Age of Anusri = $x - 11 = 24 - 11 = 13$ years

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

Question 98 :

Which draft guideline has recently been issued by the Reserve Bank Of India?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Draft Master Direction on Minimum Capital Requirements for Operational Risk
2. Master Direction on Prudential Regulation for AIFIs - 2021
3. Framework for authorisation of a pan-India New Umbrella Entity (NUE) for Retail Payment Systems
4. Processing and Settlement of small value Export and Import related payments

Solution :

The correct answer is **option 4** i.e. **Processing and Settlement of small value Export and Import related payments**

Recently, the RBI has proposed modifying the existing payment settlement norms for imports and exports through e-commerce.

A) The draft guidelines named 'Processing and Settlement of small value Export and Import related payments' that are facilitated by Online Export-Import Facilitators (OEIF) have been issued by the RBI.

B) Currently, the banks are permitted by the RBI to offer the facility of settlement and the processing of export and import-related remittances.

Question 99 :

Three altitudes of length 1.53 m, 103 m and 4.53 m are drawn on every side of an equilateral triangle from a point that lay inside the triangle. Find the perimeter of the triangle.

Difficulty : Moderate**Average Time : 71 Seconds****Options :**

1. 96 meters
2. 72 meters
3. 120 meters
4. 144 meters

Solution :

The correct answer is **option 1** i.e. **96 meters**

Understanding

Given,

$$\text{Altitude}_1 = p_1 = 1.53 \text{ m}$$

$$\text{Altitude}_2 = p_2 = 103 \text{ m, and}$$

$$\text{Altitude}_3 = p_3 = 4.53 \text{ m}$$

Formula:

$$\text{Side length} = \frac{2}{3} (p_1 + p_2 + p_3)$$

Application

$$\text{Length of 1 side} = \frac{2}{3} (1.53 + 103 + 4.53)$$

$$= \frac{2}{3} (163)$$

$$= 2 \times 16 = 32 \text{ m}$$

Hence,

$$\text{Perimeter of the triangle} = 3 \times 32 = 96 \text{ meters}$$

Question 100 :

The cost of one dozen bananas is Rs. 5. The cost of one dozen oranges is Rs 75. What will the cost of one and a quarter dozen bananas and three-fourth dozen oranges?

Difficulty : Moderate**Average Time : 65 Seconds****Options :**

1. Rs. 112.50
2. Rs. 131.25
3. Rs. 62.50
4. Rs. 93.75

Solution :

Correct Answer is **option 3** i.e. **Rs. 62.50**

Understanding	Application	Calculation
The cost of one dozen bananas is Rs. 5.	So, Cost of one and a quarter dozen bananas = Rs. $\frac{25}{4}$	$5 \times \frac{5}{4}$ $\frac{25}{4}$
The cost of one dozen oranges is Rs. 75.	So, Cost of three-fourth dozen oranges = Rs. $\frac{225}{4}$	$75 \times \frac{3}{4}$ $\frac{225}{4}$

So,

Total = $250/4 = \text{Rs. } 62.5$

$25/4 + 225/4 =$
 $250/4$

Rrb Group D CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Group D CBT - 1 Previous Year Question Paper held on 2018-10-04 in the Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 77 marks.
3. 100 questions were asked from CBT and 100 questions were asked from CBT
4. 0 questions should have been skipped if you were short of time.

Rrb Group D CBT - 1 Previous Year Question Paper Topic Wise Weightage

CBT

Rrb Group D CBT - 1 Previous Year Question Paper Tips and Tricks



1. Try to solve Rrb Group D CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Group D 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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About Neetu Mam

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



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