



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 2023-10-27 in the Morning Shift 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 :

If the cost of 17 m of cloth is ₹ $\frac{77}{5}$, Find its cost per meter (in rupees)?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. $\frac{4}{7}$
2. $\frac{7}{5}$
3. $\frac{5}{7}$
4. $\frac{4}{5}$

Solution :

The correct answer is **Option 1** i.e. $\frac{4}{7}$.

The cost of 17 m of cloth is ₹ $\frac{77}{5}$

$$17 \text{ m} = \text{Rs.} \frac{392}{5}$$

$$1 \text{ m} = \frac{392}{5 \times 17}$$

$$1 \text{ m} = \text{Rs.} 4.61 \text{ or } \frac{4}{7}$$

Question 2 :

23 [24 {25 (26 27 28)}] = ?



Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. -54

2. -53

3. 53

4. 54

Solution :

The correct answer is **Option 3 i.e. 53.**

$$23 [24 \{25 (26 27 28)\}] = ?$$

$$23 [24 \{25 (26 55)\}] = ?$$

$$23 [24 \{25 (29)\}] = ?$$

$$23 [24 \{25 + (29)\}] = ?$$

$$23 [24 \{54\}] = ?$$

$$23 [30] = ?$$

$$? = 23 + 30$$

$$? = 53$$

Question 3 :

Complete the following with an appropriate option. $529 : 441 :: 961 : \dots\dots\dots$

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 814

2. 841

3. 822

4. 835

Solution :



The correct answer is **Option 2** i.e. **841**.

This question will be solved on the basis of pattern

$$\text{As, } 23^2 = 529$$

$$21^2 = 441 \text{ and } 23 - 21 = 2$$

$$\text{Similarly, } 31^2 = 961$$

$$\text{and } 31 - 2 = 29$$

$$\text{Thus, } ? = 29^2 = 841$$

Question 4 :

A Car can cover 350 km in 4 hours. If its speed is decreased by (12rac 12) kmph, how much time does the car take to cover a distance of 450 km?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 6 hours
2. 5 hours
3. 4 hours
4. 7 hours

Solution :

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

$$\text{Speed} = \text{Distance}/\text{time}$$

$$\text{Initial Speed} = 350/4 = 87.5 \text{ kmph}$$

$$\text{Reduced Speed} = 87.5 - 12.5 = 75 \text{ kmph}$$

$$\text{Distance} = 450 \text{ km}$$

$$\text{Therefore, time taken} = 450/75 = 6 \text{ hours...}$$

Question 5 :

(rac 45+rac 4 7= ?)

Difficulty : Moderate

Average Time : 35 Seconds

**Options :**

1. $\frac{8}{12}$
2. $1\frac{13}{35}$
3. $\frac{8}{35}$
4. $\frac{16}{35}$

Solution :

The correct answer is **Option 2** i.e. $1\frac{13}{35}$.

$$\frac{45}{4} + \frac{7}{7} = ?$$

$$\frac{28}{35} + \frac{20}{35} = ?$$

$$\frac{48}{35} = ?$$

$$? = 1\frac{13}{35}$$

Question 6 :

The prices of chairs and tables are in the ratio of 9 : 5. If the chairs cost ₹ 4200 more than the tables, Find the price of the tables? (in ₹)

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

1. 6730
2. 6200
3. 5000
4. 5250

Solution :

The correct answer is **Option 4** i.e. **5250**.

The prices of chairs and tables are in the ratio of 9 : 5

If the chairs cost ₹ 4200 more than the tables

$$9x - 5x = 4200$$

$$4x = 4200$$

$$x = 1050$$



Prize of tables = $5x = \text{Rs.}5250$

Question 7 :

If $\tan^4 + \tan^2 = 2$ then $\sec^4 - \sec^2 = ?$

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 0
2. 3
3. 2
4. 1

Solution :

The correct answer is **Option 3 i.e. 2.**

$$\tan^4 + \tan^2 = 2$$

L.H.S

$$\tan^4 + \tan^2$$

$$\tan^2(\tan^2 + 1) \quad [\hat{\mu} \sec^2 = \tan^2 + 1]$$

$$\tan^2 \times \sec^2$$

$$(\sec^2 - 1)\sec^2 \quad [\hat{\mu} \tan^2 = \sec^2 - 1]$$

$$\sec^4 - \sec^2$$

So,

$$\tan^4 + \tan^2 = \sec^4 - \sec^2$$

Thus,

$$\sec^4 - \sec^2 = 2$$

Question 8 :

The ratio 1 : 5 can be expressed in decimal as:

Difficulty : Moderate

Average Time : 66 Seconds

Options :



0.5

2. 0.2

3. 0.02

4. 0.1

Solution :

The correct answer is **Option 2 i.e. 0.2.**

If any number is in a ratio like a : b then,

a : b can also be written as a/b

Now, according to the question

$$1 : 5 = 1/5 = 0.2$$

Question 9 :

Pipes A and B, when working together, can fill an empty tank in 8 hours. If B is stopped after 2 hours, it will take a total of 11 hours to fill the tank. How long would it take A to fill the empty tank alone ?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 15 hours

2. 12 hours

3. 13 hours

4. 16 hours

Solution :

The correct answer is **Option 2 i.e 12 hours.**

Let, (A + B) mean a and B work together.

(A+ B) can fill an empty tank in 8 hours and after 2 hours B was stopped. That means the first 2 hours A and B worked together.

(A + B) can fill a $2/8 = 1/4$ part in 2 hours.

After 2 two hours, A fill the remaining part of the tank which is $(1 - 1/4) = 3/4$ in $(11 - 2) = 9$ hours



It means A can fill $(3/4 \times 1/9) = 1/12$ part in 1 hour.

Therefore, A can fill the empty tank alone in $(12/1 \times 1) = 12$ hours

Question 10 :

Find the least number which when divided by 20, 25, 35, and 40 leaves the remainder 14, 19, 29, and 34 respectively.

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

1. 1394
2. 1384
3. 1364
4. 1374

Solution :

The correct answer is **Option 1 i.e 1394**.

In this type of question, we first find the LCM of given numbers and then subtract the common values to get the answer.

Common value = Number - Remainder

So,

$$20 - 14 = 6$$

$$25 - 19 = 6$$

$$35 - 29 = 6$$

$$40 - 34 = 6$$

Now LCM of 20, 25, 35, and 40

$$20 = 2^2 \times 5$$

$$25 = 5^2$$

$$35 = 5 \times 7$$

$$40 = 2^3 \times 5$$

Therefore, $LCM = 2^3 \times 5^2 \times 7 = 1400$

As we know to get the final answer we have to subtract common value from LCM.



Final answer = $1400 - 6 = 1394$

Question 11 :

A sum of ₹ 69 was divided between Jason and Ruhana in the ratio 1 : 2. How much money did Ruhana get?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. ₹ 45
2. ₹ 23
3. ₹ 46
4. ₹ 40

Solution :

The correct answer is **Option 3 i.e ₹ 46.**

A sum of ₹ 69 was divided between Jason and Ruhana in the ratio 1 : 2

$$1x + 2x = 69$$

$$3x = 69$$

$$x = 23$$

Ruhana gets = $2x = 46$

Question 12 :

If one of the zeros of the quadratic polynomial $(k - 1)x^2 + kx + 1$ is -3 then the value of $k =$

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 3^{-4}
2. 3^{-2}
3. $\frac{2}{3}$
4. $\frac{4}{3}$

Solution :

The correct answer is **Option 4 i.e $\frac{4}{3}$.**

If -3 is the root of the equation then, -3 must satisfy the equation

Putting $x = -3$

$$(k - 1)(-3)^2 + k(-3) + 1 = 0$$

$$9(k - 1) - 3k + 1 = 0$$

$$9k - 9 - 3k + 1 = 0$$

$$6k - 8 = 0$$

$$k = 8/6 = 4/3$$

Question 13 :

$$(25 - \frac{1}{2})\{5 + 4 - (3 + 2 - 1 + 3)\} = ?$$

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 21
2. 23
3. 22
4. 24

Solution :

The correct answer is **Option 4 i.e. 24.**

$$(25 - \frac{1}{2})\{5 + 4 - (3 + 2 - 1 + 3)\} = ?$$

$$(25 - \frac{1}{2})\{5 + 4 - (7)\} = ?$$

$$(25 - \frac{1}{2})\{9 - (7)\} = ?$$

$$(25 - \frac{1}{2})\{2\} = ?$$

$$25 - 1 = ?$$

$$? = 24$$

Question 14 :

Kishan cycled a distance of 120 km at a certain speed. If he cycled 2 km slower every hour, he would have taken 3 more hours to reach his destination. What is the speed in km/h at which Kishan actually cycled?

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

1. 15
2. 8
3. 12
4. 10

Solution :The correct answer is **Option 4 i.e 10.**Let the original speed be x New speed = $(x - 2)$

We know that,

$$D = \frac{xy}{(x - y)} \times t$$

$$120 = \frac{x(x - 2)}{(x - (x - 2))} \times 3$$

$$40 = \frac{x(x - 2)}{2}$$

$$80 = x(x - 2)$$

$$80 = x^2 - 2x$$

$$x^2 - 2x - 80 = 0$$

$$x^2 - 10x + 8x - 80 = 0$$

$$x(x - 10) + 8(x - 10) = 0$$

$$(x + 8)(x - 10) = 0$$

$$x = -8, 10$$

Thus, originally speed is 10 km/hr

Question 15 :

The given table provides the details of the number of students in Class 10, Section A and B, who had taken their midterm and final exams. The pass percentage of those Section B students who passed in at least one of the two exams (midterm and final) is Result Sec A Sec B Total number of students who failed in both exams 28 23 Total number of students who failed in mid-term but passed in finals 14 12 Total number of students who passed in mid-term but failed in finals 6 17



Total number of students who passed in both the exams 64 55

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. 79
2. 78.2
3. 78.5
4. 78

Solution :

The correct answer is **Option 3** i.e. **78.5**.

For section B,

Number of students who only passed in finals = 12

Number of students who only passed in mid term = 17

Number of students who passed in both exams = 55

Total number of students = $55 + 12 + 17 + 23 = 107$

Required percentage = $(12 + 17 + 55)/107 \times 100 = 78.5\%$

Question 16 :

The length of each side of a rhombus is 25 m and the length of one of its diagonals is 14 m. Find the area of the rhombus.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 336 m^2
2. 175 m^2
3. 350 m^2
4. 168 m^2

Solution :

The correct answer is **Option 1** i.e. 336 m^2 .



To find other diagonals of the rhombus,

Apply Pythagoras theorem,

$$25^2 = (14/2)^2 + x^2$$

$$625 = 49 + x^2$$

$$x^2 = 576$$

$$x = 24 \text{ cm}$$

Other diagonal = $24 \times 2 = 48 \text{ m}$

Now, find the area of the rhombus,

Area = $1/2 \times$ product of diagonals

$$\text{Area} = 1/2 \times 48 \times 14 = 48 \times 7 = 336 \text{ m}^2$$

Question 17 :

The table gives the details of the number of students in Class 10 section A and B who had taken mid-term and final exams. What is the pass percentage in at least one of the two exams for section A (approximately or rounded)?

Result	Sec A	Sec B
Total number of students who failed in both exams	28	23
Total number of students who failed in mid-term but passed in finals	14	12
Total number of students who passed in mid-term but failed in finals	6	17
Total number of students who passed in both the exams	64	55

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. 80
2. 65
3. 75
4. 70

Solution :

The correct answer is **Option 3** i.e. **75**.

For section A,

Number of students who only passed in finals = 14

Number of students who only passed in mid term = 6

Number of students who passed in both exams = 84

Total number of students = $64 + 6 + 14 + 28 = 112$

Required percentage = $(14 + 6 + 84)/112 \times 100 = 75\%$

Question 18 :

From the top of a building, the angles of elevation and depression of top and bottom of a tower are 60° and 30° respectively. If the height of the building is 5 m, then the height of the tower is:

Difficulty : Moderate

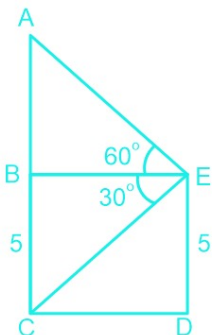
Average Time : 49 Seconds

Options :

1. 20 m
2. 15 m
3. $\sqrt{10\sqrt{3}}$ m
4. $\sqrt{5\sqrt{3}}$ m

Solution :

The correct answer is **Option 1** i.e. **20 m**.



Let the building be DE and the tower be AC, then $BC = DE = 5\text{m}$.

In triangle BEC,

$$\tan \text{BEC} = \text{BE}/\text{BC}$$

$$\tan 30^\circ = \text{BE}/5$$

$$1/3 = \text{BE}/5$$

$$\text{BE} = 5/3 \text{ m}$$



In triangle ABE,

$$\tan ABE = AB/BE$$

$$\tan 60^\circ = AB/53$$

$$3 = AB/53$$

$$AB = 15 \text{ m}$$

Thus the height of the tower = AB + BC = 15 + 5 = 20 m

Question 19 :

A bag contains coins of denomination ₹ 1, ₹ 5 and ₹ 10. Assuming there are equal number of ₹ 1, ₹ 5 and ₹ 10 coins, what will the total number of coins in the bag be if the total money is ₹ 368?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 69

2. 96

3. 56

4. 65

Solution :

The correct answer is **Option 1 i.e. 69.**

Given that a bag has 5 rupee coins, 10 rupee coins, and 1 rupee coins.

Let the number of 5 rupee coins be x, and number of 10 rupee coins be y and number of 1 rupee coins be z.

Total amount is 368 rupees.

$$\text{Hence, } 5x + 2y + 1z = 368$$

Now our aim is to find the values of x, y, z such that the above equation satisfies.

Given that, the 5 rupee coins, 2 rupee coins and 1 rupee coins are in the ratio of 1:1:1

Hence x is a multiple of 1, y is a multiple of 1 and z is a multiple of 1

Therefore, $x = a, y=a, z=a$, where a is any natural number.

Substitute the values of x, y and z in our first equation.

$$5a + 10a + 1a = 368$$

$$16a = 368$$

$$a = 23$$

$$3a = 69$$

Question 20 :

In a bag, the ratio of red balls to green balls is 4 : 9. If 7 more red balls are added to the bag, the ratio of red balls to green balls will become 5 : 6. How many green balls are there in the bag?

Difficulty : Moderate**Average Time : 75 Seconds****Options :**

1. 12

2. 27

3. 18

4. 9

Solution :

The correct answer is **Option 3** i.e **18**.

In a bag, the ratio of red balls to green balls is 4 : 9 = 4x : 9x

If 7 more red balls are added to the bag = (4x + 7) : 9x

The ratio of red balls to green balls will become 5 : 6

$$(4x + 7)/9x = 5/6$$

$$6(4x + 7) = 45x$$

$$24x + 42 = 45x$$

$$21x = 42$$

$$x = 2$$

Number of green balls = 9x = 18

Question 21 :

Shiv sold a shirt for ₹ 184 at a loss of 8%. To make a profit of 5% he should have sold the shirt for:



Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 210
2. 197
3. 207.92
4. 200

Solution :

The correct answer is **Option 1** i.e **210**.

The actual price of the shirt = $184 \times 100 / (100 - 8)$

$$184 \times 100 / 92 = \text{Rs.}200$$

So, the actual price of the shirt Shive has is Rs.200

To make a profit of 5% = $200 \times 105 / 100 = \text{Rs.}210$

Question 22 :

The volume of a right circular cone, whose radius of the base is the same as its altitude, and the volume of a sphere is equal. The ratio of the radius of the cone to the radius of the sphere is:

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. $3^3 : 3^2$
2. $(\sqrt{2} : 1)$
3. 1 : 1
4. $3^4 : 1$

Solution :

The correct answer is **Option 4** i.e. $3^4 : 1$.

The volume of a right circular cone = $1/3r^2h$

The volume of the sphere = $4/3r^3$

Let's assume the radius of the right angle circular cone = x



The radius of the right-angle circular cone is the same as its altitude

So, the height of the cone = x

The radius of the sphere = r

According to the question,

The volume of a right circular cone = The volume of the sphere

$$\frac{1}{3}x^2x = \frac{4}{3}r^3$$

$$x^3 = 4r^3$$

$$x/r = \sqrt[3]{4}$$

So, the ratio of the radius of the cone to the radius of the sphere = $\sqrt[3]{4} : 1$

Question 23 :

ABC is an equilateral triangle of side 6 cm. If a circle of radius 1 cm is moving inside and along the sides of the triangle, then the locus of the center of the circle is an equilateral triangle of the side is:

Difficulty : Moderate

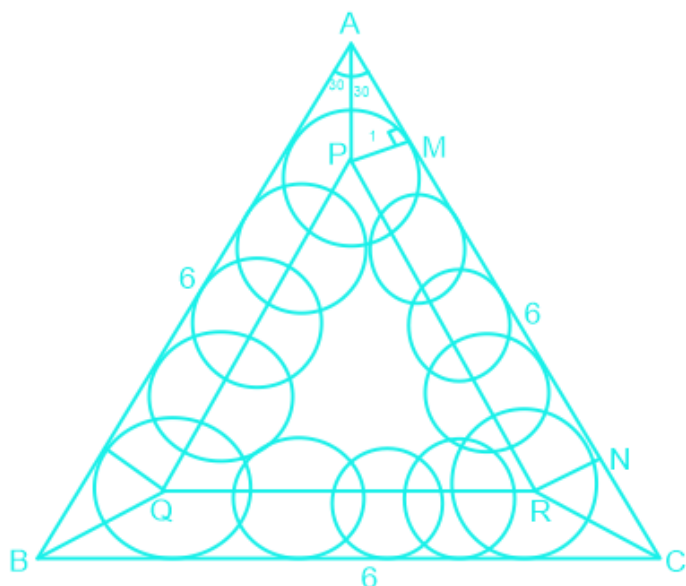
Average Time : 85 Seconds

Options :

1. 5 cm
2. $\sqrt{(6-2\sqrt{3})}$ cm
3. 4 cm
4. $\sqrt{(3+\sqrt{3})}$ cm

Solution :

The correct answer is **Option 2** i.e. $\sqrt{(6-2\sqrt{3})}$ cm.



Side of the equilateral triangle = 6 cm

The radius of the circle = 1 cm

Each angle of the equilateral triangle is 60° .

So, $\angle PAM = 30^\circ$

In triangle APM,

AM is the tangent of the circle so $\angle PAM = 90^\circ$

Triangle APM is a right-angle triangle

$\tan 30^\circ = \frac{PM}{AM}$

$$\frac{1}{\sqrt{3}} = \frac{1}{AM}$$

$$AM = \sqrt{3}$$

Similarly

$$NC = \sqrt{3}$$

So, the locus of the triangle $PR = MN$

$$MN = AC - (AM + NC)$$

$$= 6 - (\sqrt{3} + \sqrt{3})$$

$$= 6 - 2\sqrt{3}$$

**Question 24 :**

Consider the argument and decide which of the given assumptions is/are implicit Argument: With immediate effect, the government asked to shut down all the schools for one week in the region due to a severe cold wave. Assumptions: 1. The cold wave may continue for one week. 2. Concerned parents may not allow their children to attend school after one week.

Difficulty : Moderate

Average Time : 85 Seconds

Options :

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

Solution :

The correct answer is **option 1** i.e. **Only assumption 1 is implicit.**

1. The cold wave may continue for one week: **Implicit** (As the government decided to shut down schools for a week suggests they anticipate that the severe cold wave could persist for that duration otherwise they would have chosen the shorter duration or no closer as an option.)
2. Concerned parents may not allow their children to attend school after one week also: **Not Implicit** (Nothing about the situation after one week and the government's decision regarding that is mentioned. So, the decision of parents to keep the students at home even after one week can't be assumed from the given statement)

Question 25 :

Consider the given statements to be true and decide which of the conclusions logically follow(s) from the statements. Statements: Students passing from premier institutions such as IIM, IIT and IISC get placed in foreign countries and receive more salary than they received in India. Conclusions: 1. Companies in India should pay the same salary as companies in foreign countries. 2. Students from these institutions should be barred from going to foreign countries.

Difficulty : Moderate

Average Time : 81 Seconds

Options :

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

**Solution :**

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

Conclusions:

1. Companies in India should pay the same salary as companies in foreign countries. **Does not follow** (This conclusion does not logically follow from the statements. The statements describe a situation but do not provide any normative or prescriptive information about what should be done. The statements do not imply that Indian companies should match foreign salaries.)

2. Students from these institutions should be barred from going to foreign countries. **Does not follow** (This conclusion also does not logically follow from the statements. The statements simply state a fact about higher salaries in foreign countries and do not suggest any policy or restriction on students.)

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

Question 26 :

How many such numbers are present in the below arrangement which are immediately preceded by a consonant and immediately followed by a letter? Q@A3RI4*6T4W4O2^E\$6S

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. Three
2. Four
3. One
4. Two

Solution :

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

Given: Numbers which are immediately preceded by a consonant and immediately followed by a letter.

Consonant Numbers Letter

Q@A3RI4*6T4W4O2^E\$6S

There are two numbers that is immediately preceded by a consonant and immediately followed by a letter.

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

Question 27 :

In the morning, X and Y walk towards each other in a park. When they meet, Y's shadow falls towards the left side of X. In

which direction was X facing?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

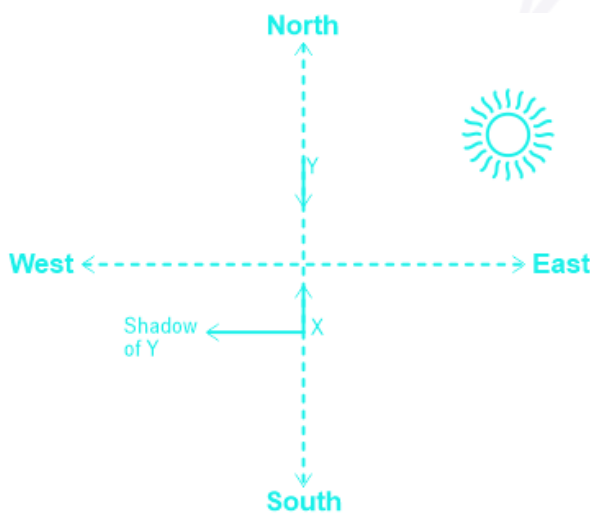
1. South
2. West
3. North
4. East

Solution :

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

If it is the morning, then the source of light is in East and the shadow falls to the opposite direction of source of light.

Then X faces North then shadow of Y will fall on X's left side.



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

Question 28 :

From the given four answer figures choose the correct mirror image of the below figure when the mirror is on AB line.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. A

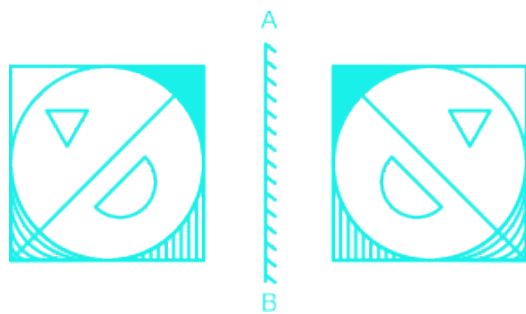
B

3. D

4. C

Solution :

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



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

Question 29 :

Fill in the blank based on the given related pair. GULF : 519104 :: WINE :

Difficulty : Moderate

Average Time : 39 Seconds

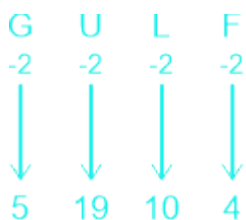
Options :

1. 217123
2. 217132
3. 217124
4. 217321

Solution :

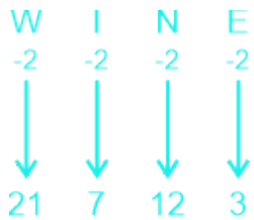
The correct answer is **Option 1** i.e. **217123**.

GULF : 519104



Similarly;

WINE :



Hence, the correct answer is **217123**.

Question 30 :

Which of the following words does NOT belong with the others?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Dharti
2. Shukra
3. Brihaspati
4. Shani

Solution :

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

All options refer to planets in the Solar System.

However, Dharti (Earth) is unique among them.

1. Earth is the only planet known to support life.
2. Earth is the only planet that does not have a mythological name related to a deity in Hindu mythology.
3. Earth is often considered in a different category because it's the planet humans live on, making it distinct from the others mentioned, which are considered "outer" planets.

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

Question 31 :

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

Difficulty : Moderate

Average Time : 58 Seconds

Options :

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

Solution :

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



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

Question 32 :

Select the correct set that represents the following Venn diagram.

Difficulty : Moderate

Average Time : 38 Seconds

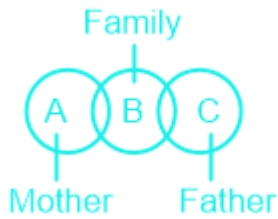
Options :

1. Music, sports, educated people
2. Mother, father, family
3. Cat, toys, girl
4. Dancers, teacher, cows

Solution :

The correct answer is **Option 2** i.e. **Mother, father, family**.

Mothers and fathers make a family.



Hence, the correct answer is **Mother, father, family.**

Question 33 :

If SPOON means PLATE, PLATE means BOWL, BOWL means GLASS, and GLASS means SPOON, then what is used to drink water?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. PLATE
2. BOWL
3. SPOON
4. GLASS

Solution :

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

Glass is used to drink water but here glass is called a spoon.

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

Question 34 :

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

Statements: Some crows are peacocks. All peacocks are ducks. Some ducks are pigeons. Conclusions: 1. Some ducks are crows. 2. Some pigeons are peacocks

Difficulty : Moderate

Average Time : 46 Seconds

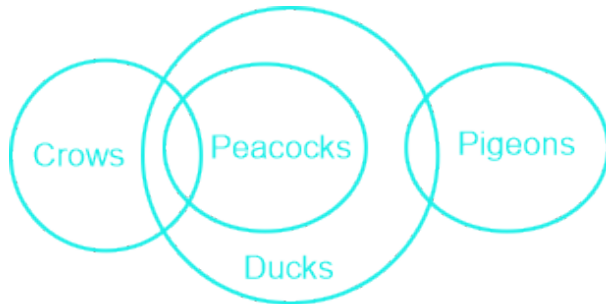
Options :

1. Either conclusion 1 or 2 follows.
2. Both conclusions 1 and 2 follow.
3. Only conclusion 1 follows.

Only conclusion 2 follows.

Solution :

The correct answer is **Option 3** i.e. **Only conclusion 1 follows.**



1. Some ducks are crows: **True** (Some Crows are peacocks and all peacocks are ducks so some ducks are crows is true.)
2. Some pigeons are peacocks: **False** (There is no direct relation between peacocks and pigeons so it can be true but not definite)

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

Question 35 :

Consider the given argument and decide which of the given assumptions is (are) implicit. Argument: The government had planned to conduct special recruitment drives for doctors twice a year for rural districts. Assumptions: 1. There are more vacancies. 2. The government wants the rural people to get good health care.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

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

Solution :

The correct answer is **Option 4** i.e. **Only assumption 2 is implicit.**

Assumptions:

1. This assumption is **not implicit**. The argument does not specifically state that there are more vacancies. **Recruitment drives could be planned for reasons other than an increase in vacancies, such as improving the quality of**

healthcare or replacing outgoing staff.

2. This assumption is **implicit**. The argument indicates that the government is focusing on rural districts, which suggests an intention to improve healthcare in those areas. **Planning special recruitment drives for rural areas shows a concern for providing good healthcare to rural populations.**

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

Question 36 :

Assuming that the numbers in each of the following figures follow a similar pattern, select the option that can replace the question mark (?) in Figure C.

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. 36
2. 37
3. 115
4. 26

Solution :

The correct answer is **Option 1** i.e. **36**.

Logic in figure A: $5 \times 4 = 20$; $5 + 4 = 9$

Logic in figure C: $9 \times 4 = 36$; $9 + 4 = 13$

Hence, the correct answer is **36**.

Question 37 :

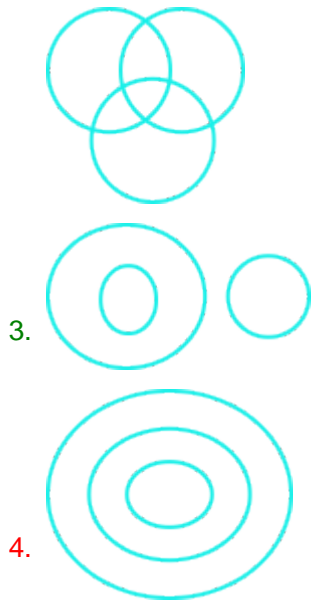
Which of the following Venn diagrams correctly represents the following classes: Eagle, Bird, Cat

Difficulty : Moderate

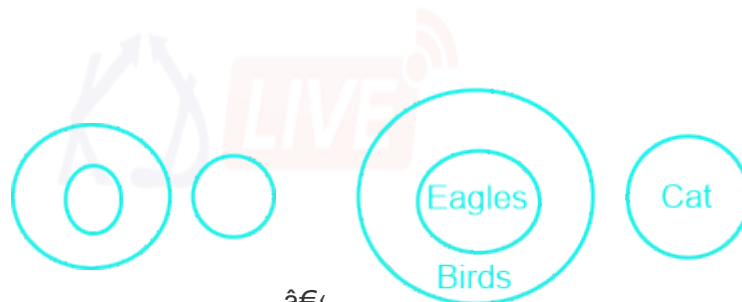
Average Time : 38 Seconds

Options :

2.



Solution :



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

All eagles are birds, and cat is a different class.

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

Question 38 :

Select the odd figure out of the following series.

Difficulty : Moderate

Average Time : 62 Seconds

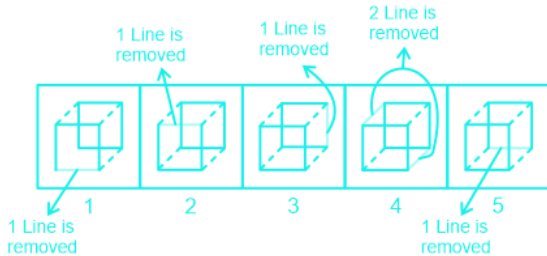
Options :

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

Solution :

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

Except figure 4, in all figures one line is decreasing from the cube.



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

Question 39 :

Consider the given question and decide which of the following statements is sufficient to answer the question. How many students in the class play Chess? Statements: 1. Only girls play Chess. 2. There are 20 girls and 15 boys in the class.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Statement 1 alone is sufficient while statement 2 alone is insufficient
2. Statement 2 alone is sufficient while statement 1 alone is insufficient
3. Both statement 1 and 2 are sufficient
4. Neither statement 1 nor 2 is sufficient

Solution :

The correct answer is **Option 3** i.e. **Both statement 1 and 2 are sufficient**.

Statement 1: Insufficient (This tells us that no boys in the class play Chess. It implies that the number of students who play Chess is equal to the number of girls who play Chess.)

Statement 2: Insufficient (This provides the number of girls (20) and boys (15) in the class. It does not specify how many of these students play Chess.)

After combining the Statements:

Since only girls play Chess (from Statement 1) and there are 20 girls in the class (from Statement 2), it means that all potential Chess players are within this group of 20 girls.

Given the information from Statement 1 (that only girls play Chess), and the fact that there are no additional constraints or

exclusions provided about the girls who play Chess, it can be logically concluded that:

All 20 girls in the class are the ones who play Chess. Hence, combining both statements, we can determine that the number of students who play Chess is 20.

Therefore, both statements together are sufficient to determine the number of students in the class who play Chess.

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

Question 40 :

If each of the vowels in the word 'MEAT' is kept unchanged and each of the consonants is replaced by the previous letter in the English alphabet, how many four-lettered meaningful words can be formed with the new letters, using each letter only once in each word?

Difficulty : Moderate**Average Time : 101 Seconds****Options :**

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

Solution :

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

In the given word MEAT:

Vowels are E and A

Consonant change with the previous letter:

M by L

T by S

New letters according to the given statement:

E, A, S, L

There are three words formed by the given word MEAT

SEAL

LEAS



SALE

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

Question 41 :

If the hour hand of a clock moves by then by how many degrees does the minute hand move during the same time?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 168
2. 216
3. 276
4. 196

Solution :

The correct answer is **Option 2** i.e. **216**.

The minute hand moves 12 times the amount moved by the hour hand (movement 1 to 2 of the hand is 1 to 12 of the minute hand).

So 18 degree of the hour hand means $18 \times 12 = 216$ deg of the minute hand.

Hence, the correct answer is **216**.

Question 42 :

Select the missing term based on the given related pair. : Pony :: : ?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Larva
2. Caterpillar
3. Kitten
4. Child

Solution :

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

A pony is a small horse. Similarly, the **Caterpillar** is a smaller butterfly.



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

Question 43 :

Select the figure that does NOT belong in the following group.

Difficulty : Moderate

Average Time : 38 Seconds

Options :

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

Solution :

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

Logic: Shapes inside the square are the mirror image of each other.

In figure A, B and D, inside shapes are mirror to each other except figure C.

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

Question 44 :

If 'U' is the husband of 'V', 'V' and 'W' are daughters of 'X', 'Y' is the husband of 'X', then 'Y' is the of 'U'.

Difficulty : Moderate

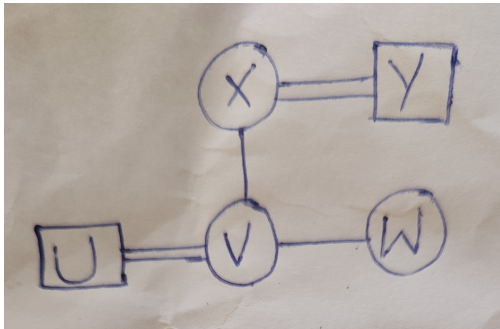
Average Time : 51 Seconds

Options :

1. Father-in-law
2. Father
3. Brother
4. Son

Solution :

The correct answer is **Option 1** i.e. **Father-in-law**.



So, Y is the father-in-law of U.

Hence, the correct answer is **Father-in-law**.

Question 45 :

As of February 2018, who is the coach of Rio Olympics silver medal winner PV Sindhu?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. Prakash Padukone
2. Pullela Gopichand
3. Akhtar Ali
4. Vikram Bisht

Solution :

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

As of February 2018, the coach of PV Sindhu, the silver medalist at the Rio Olympics, is Pullela Gopichand. Gopichand, a former All England Open Badminton Champion, has been instrumental in Sindhu's development and success. Under his guidance, Sindhu has achieved numerous accolades, including her historic Olympic silver medal in 2016. Gopichand's rigorous training regimen and strategic mentorship have been pivotal in shaping Sindhu into one of the world's top badminton players.

Question 46 :

On the banks of which river is Jabalpur situated?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Chambal
2. Betwa

Yamuna

4. Narmada

Solution :

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

Jabalpur is situated on the banks of the Narmada River. Located in the central Indian state of Madhya Pradesh, Jabalpur is an important administrative, industrial, and cultural center. The Narmada River, one of the major rivers in India, flows westwards through the city, providing it with a scenic landscape and vital water resources. The city's rich history and proximity to the river make it a significant location in the region. The Narmada River is also considered sacred and holds religious significance.

Question 47 :

Which 2016 Hindi film is based on the real life of the famous Phogat wrestling family?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Bodyguard
2. Mangal Pandey: The Rising
3. Sultan
4. Dangal

Solution :

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

The 2016 Hindi film "**Dangal**" is based on the real-life story of the famous Phogat wrestling family. Directed by Nitesh Tiwari, the film stars Aamir Khan as Mahavir Singh Phogat, a former wrestler who trains his daughters, Geeta and Babita Phogat, to become world-class wrestlers. "Dangal" portrays their journey from a small village in Haryana to international wrestling arenas, highlighting their struggles and triumphs. The film received widespread acclaim for its performances, direction, and its portrayal of gender empowerment.

Question 48 :

Which Indian-American is the chairman of the prestigious Federal Communications Commission (FCC) of the United States as of March 2018?

Difficulty : Moderate

Average Time : 56 Seconds

Options :



Seema Verma

2. Neil Chatterjee

3. Ajit Pai

4. Neomi Rao

Solution :

The correct answer is **Option 3** i.e. **Ajit Pai**.

As of March 2018, the chairman of the Federal Communications Commission (FCC) of the United States is Ajit Pai, an Indian-American. Ajit Pai was appointed as FCC chairman by President Donald Trump in January 2017. He is known for his stance on various regulatory issues, including net neutrality. Before becoming chairman, Pai served as an FCC Commissioner, having been appointed by President Barack Obama in 2012. His tenure as chairman has been marked by significant policy changes in the telecommunications industry.

Question 49 :

In 2016, the State Bank of India launched a new product called 'SBI Exclusif'. What is the financial nature of this product?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Insurance
2. Mutual Fund Offering
3. Wealth Management
4. Recurring Deposit Scheme

Solution :

The correct answer is **Option 3** i.e. **Wealth Management**.

In 2016, the State Bank of India launched 'SBI Exclusif', a wealth management service aimed at high-net-worth individuals. This product offers personalized banking solutions, including financial planning, investment advisory, and portfolio management. 'SBI Exclusif' provides clients with access to a dedicated relationship manager, tailored investment strategies, and exclusive lifestyle privileges. It integrates various banking and financial services to cater to the sophisticated needs of affluent customers, enhancing their overall banking experience with bespoke financial solutions.

Question 50 :



Who has been elected as the mayor of Mumbai in 2017?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Sanjay Raut
2. Uddhav Thackeray
3. Vishwanath Mahadeshwar
4. Smita Thackeray

Solution :

The correct answer is **Option 3** i.e. **Vishwanath Mahadeshwar**.

In 2017, Vishwanath Mahadeshwar was elected as the mayor of Mumbai. He is a member of the Shiv Sena party, which has a strong political presence in Mumbai. Mahadeshwar, a former teacher and college principal, took office as the 76th mayor of the city. His election came after the municipal elections where Shiv Sena emerged as the single largest party in the Brihanmumbai Municipal Corporation (BMC). His tenure focused on urban development and addressing civic issues in Mumbai.

Question 51 :

..... founded Din-e- Ilahi.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Aurangzeb
2. Akbar
3. Babur
4. Rahim

Solution :

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

Emperor Akbar founded Din-e-Ilahi in 1582. This syncretic religious movement aimed to merge the best elements of various religions, including Islam, Hinduism, Christianity, Jainism, and Zoroastrianism, to promote tolerance and unity



within his diverse empire. Akbar's goal was to create a common spiritual framework that transcended individual religious boundaries, fostering greater harmony among his subjects. However, Din-e-Ilahi did not gain widespread acceptance and largely faded after Akbar's death.

Question 52 :

Which Asian city hosted the 2017 Men's Hockey Asia Cup?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Dhaka
2. Teheran
3. Tokyo
4. Singapore

Solution :

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

The 2017 Men's Hockey Asia Cup was hosted by Dhaka, the capital city of Bangladesh. The tournament took place from October 11 to October 22, 2017, at the Maulana Bhasani Hockey Stadium. This event featured top national teams from Asia competing for the prestigious title. India emerged victorious in the tournament, clinching the Asia Cup by defeating Malaysia in the final. The successful hosting of the event in Dhaka highlighted Bangladesh's capability to organize international sports events.

Question 53 :

The statue of Dr APJ Abdul Kalam that was unveiled at his Rameswaram memorial by Prime Minister Modi depicts him playing which musical instrument?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Tabla
2. Violin
3. Mridangam
4. Veena

Solution :

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

The statue of Dr. APJ Abdul Kalam, unveiled by Prime Minister Narendra Modi at his memorial in Rameswaram, depicts him playing the veena. This musical instrument is significant as it reflects Dr. Kalam's love for music, which was an important aspect of his multifaceted personality. The statue aims to celebrate and honor the former President of India's diverse interests and contributions, highlighting not just his scientific achievements but also his cultural and artistic inclinations.

Question 54 :

India-born Satya Nadella is the Chief Executive Officer (CEO) of which of the following companies?

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

1. Dell
2. Amazon
3. Microsoft
4. Google

Solution :

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

India-born Satya Nadella is the Chief Executive Officer (CEO) of Microsoft Corporation. He assumed the role of CEO on February 4, 2014, succeeding Steve Ballmer. Nadella has been instrumental in leading Microsoft through a significant transformation towards cloud computing and AI-driven technologies. Under his leadership, Microsoft has focused on expanding its cloud services such as Azure and integrating AI capabilities across its products and services. Nadella's tenure has been marked by innovation, strategic partnerships, and a strong emphasis on inclusive growth and corporate responsibility.

**Question 55 :**

Amphibian plants are placed in which of the following groups?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Bryophytes
2. Gymnosperms
3. Pteridophyta
4. Thallophyta

Solution :

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

Amphibian plants, which can live both in water and on land, are typically placed in the group **Bryophytes**. This group includes mosses and liverworts, which are non-vascular plants. Bryophytes are known for their ability to thrive in moist environments and often exhibit amphibious characteristics, allowing them to survive in both terrestrial and aquatic habitats. Their life cycle involves a significant reliance on water for reproduction, particularly for the movement of sperm to egg, thus fitting the amphibian plant description.

Question 56 :

..... is amphoteric in nature.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. SO_2
2. CaO
3. ZnO
4. N_2O

Solution :

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

Zinc oxide (ZnO) is amphoteric in nature, meaning it can react both as an acid and as a base. When ZnO reacts with acids, it forms zinc salts and water, demonstrating its basic properties. Conversely, when it reacts with strong bases, it

forms soluble zincates, indicating its acidic properties. This dual behavior allows ZnO to play versatile roles in various chemical reactions and industrial applications, such as in ceramics, pharmaceuticals, and as a catalyst in chemical processes.

Question 57 :

What does the kinetic energy (KE) of a moving body depend upon?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Mass and its position
2. Weight and its position
3. Mass and acceleration
4. Mass and velocity

Solution :

The correct answer is **Option 4** i.e. **Mass and velocity**.

The kinetic energy (KE) of a moving body depends on its mass (m) and its velocity (v). Mathematically, $KE = \frac{1}{2} * m * v^2$. This formula shows that kinetic energy increases with both mass and the square of velocity. Therefore, a body with greater mass or higher velocity will possess more kinetic energy. This fundamental relationship underscores the importance of both speed and mass in determining the amount of kinetic energy a moving object possesses.

Question 58 :

Which of the following gases is liberated when Sodium Hydrogen Carbonate is heated?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Carbon Monoxide
2. Carbon Dioxide
3. Oxygen
4. Hydrogen

Solution :

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

When Sodium Hydrogen Carbonate (NaHCO_3) is heated, carbon dioxide (CO_2) gas is liberated as a result of thermal

decomposition. The chemical reaction can be represented as follows:



This reaction occurs around 50-100°C, where sodium carbonate (Na₂CO₃) and water vapor (H₂O) are also produced along with carbon dioxide gas. The liberation of CO₂ is utilized in various applications, including baking (as a leavening agent) and in fire extinguishers (as an extinguishing agent).

Question 59 :

Which part of the female reproductive system prepares itself every month to receive and nurture the growing child?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Ovary
2. Uterus
3. Vagina
4. Cervix

Solution :

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

The uterus is the part of the female reproductive system that prepares itself every month to receive and nurture a growing child. During the menstrual cycle, the lining of the uterus, known as the endometrium, thickens under the influence of hormones like estrogen and progesterone. This preparation occurs in anticipation of a fertilized egg implanting into the uterine lining. If fertilization occurs, the uterus supports the developing embryo throughout pregnancy. If fertilization does not occur, the uterus sheds its lining during menstruation, and the cycle restarts.

Question 60 :

Some of the energy derived from the food we eat is stored in the form of:

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Amino acids
2. Pyruvic acid
3. Glucose
4. Glycogen

Solution :

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

Some of the energy derived from the food we eat is stored in the form of glycogen. Glycogen is a complex carbohydrate that serves as a short-term energy storage molecule in animals, including humans. It is primarily stored in the liver and muscles. After we eat, excess glucose from the digestion of carbohydrates is converted into glycogen through a process called glycogenesis. When energy demands increase, such as during exercise or fasting, glycogen is broken down into glucose to provide a quick source of energy for the body's cells.

Question 61 :

Mohan, having a mass of 40 kg, runs up staircase of 50 steps in 10 s. If the height of each step is 15 cm, then what is his power? (Take $g = 10 \text{ m/s}^2$)

Difficulty : Moderate**Average Time : 60 Seconds****Options :**

1. 300 w
2. 200 w
3. 100 w
4. 400 w

Solution :

The correct answer is **Option 1** i.e. **300 w**

To calculate Mohan's power, we first need to find the total work done and then use the formula for power.

Calculate the total work done:

Mohan's mass $m = 40 \text{ kg}$.

Total vertical distance climbed = Number of steps \times Height of each step = $50 = 50 \text{ steps} \times 0.15 \text{ m/step} = 7.5 \text{ m}$.

Work done $W = \text{Force} \times \text{Distance}$

Force $F = \text{Mass} \times \text{Acceleration}$

Acceleration due to gravity $g = 10 \text{ m/s}^2$

$W = \text{Mass} \times g \times \text{Height climbed}$.

$W = 40 \text{ kg} \times 10 \text{ m/s}^2 \times 7.5 \text{ m}$

$W = 3000 \text{ Joules}$

**Calculate power:**

Power $P=W/t$

where $t= 10s$ (time taken to climb the stairs)

$P= 3000J/10s$

$P= 300$ watts

Therefore, Mohan's power while running up the staircase is 300 watts.

Question 62 :

Which of the following indicators CANNOT be used for distinguishing between acidic and neutral solutions?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. Eosin
2. Universal indicator
3. Phenolphthalein
4. Methyl orange

Solution :

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

Phenolphthalein is an acid-base indicator that is commonly used in titrations and to determine the pH of solutions. It undergoes a color change in a specific pH range:

In acidic solutions (pH < 8.2), phenolphthalein is colorless.

In basic solutions (pH > 10), phenolphthalein turns pink.

Given this information, phenolphthalein cannot be effectively used to distinguish between acidic and neutral solutions. Both acidic solutions (pH < 7) and neutral solutions (pH = 7) will result in phenolphthalein being colorless.

Question 63 :

Which hormone is released from the testes?

Difficulty : Moderate

Average Time : 51 Seconds

Options :



1. Insulin

2. Testosterone

3. Thyroxin

4. Estrogen

Solution :

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

The primary hormone released from the testes is testosterone. Testosterone is the principal male sex hormone and is crucial for the development of male reproductive tissues such as the testes and prostate. It also promotes secondary sexual characteristics such as increased muscle and bone mass, and the growth of body hair. Additionally, testosterone is essential for overall health and well-being, as well as the prevention of osteoporosis.

Question 64 :

Which of the following metals CANNOT be easily cut with a knife?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Sodium

2. Aluminium

3. Lithium

4. Potassium

Solution :

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

Aluminium is a relatively soft metal and can be cut with a knife, although not as easily as some other softer metals like sodium or potassium. However, in the context of metals that are commonly known to be easily cut with a knife, the metals that stand out for their extreme softness are typically alkali metals, such as lithium, sodium, and potassium.

Therefore, aluminium is generally harder than these alkali metals and is not as easily cut with a knife. This makes aluminium a metal that cannot be easily cut with a knife compared to these very soft metals.

Question 65 :

The characteristic of is used in the breaking pads of cars.

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

1. negative effect of friction
2. zero effect of friction
3. weight impulse force tension action
4. positive effect of friction

Solution :

The correct answer is **Option 4** i.e. **positive effect of friction**.

The characteristic of positive friction is used in the brake pads of cars.

Brake pads are designed to create friction against the brake rotors (discs) to slow down or stop a vehicle. This friction converts the kinetic energy of the moving vehicle into heat, thereby reducing its speed. The materials used for brake pads are specifically chosen for their ability to withstand high temperatures and provide consistent friction performance under varying conditions.

Question 66 :

Which of the following can neither be created nor be destroyed?

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

1. Velocity
2. Power
3. Energy
4. Momentum

Solution :

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

Energy can neither be created nor destroyed. This principle is known as the Law of Conservation of Energy, which states that the total energy of an isolated system remains constant over time. Energy can change forms (such as from kinetic to potential energy, or from electrical to thermal energy), but the total amount of energy in a closed system remains the same. This fundamental concept is a cornerstone of physics and applies universally in all natural processes.

Question 67 :

Complete the following sentence with the most appropriate option. A disease always has

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

1. a cause
2. germs
3. a doctor
4. a cure

Solution :

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

A disease always has a cause.

This cause can be a variety of factors such as bacteria, viruses, genetic mutations, environmental factors, or lifestyle choices. Understanding the cause of a disease is crucial for diagnosis, treatment, and prevention. Identifying the cause helps in developing targeted therapies and effective public health strategies to mitigate the impact of the disease on individuals and communities. Therefore, pinpointing the cause is fundamental in the medical field.

Question 68 :

How are elements arranged in the Modern Periodic Table?

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

1. In the increasing order of their Molecular Mass
2. In the increasing order of their Atomic Mass
3. In the increasing order of their Atomic Number
4. In the increasing order of their Mass Number

Solution :

The correct answer is **option 2** i.e. **In the increasing order of their Atomic Mass**.

In the Modern Periodic Table, elements are arranged in order of increasing atomic number, which is the number of protons in an atom's nucleus. The table is structured into rows called periods and columns called groups. Elements in the same group have similar chemical properties due to having the same number of valence electrons. Periods indicate the number of electron shells. This arrangement reflects periodic trends such as atomic radius, ionization energy, and electronegativity.

Question 69 :

Page No: 46

Follow us on



Address : 1997, Mukherjee Nagar, 110009

Email : online@kdcampus.org

Call : +91 95551 08888

Download the App





If the distance travelled by an object is zero, then the displacement of the object:

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. is zero
2. is negative
3. is positive
4. may or may not be zero

Solution :

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

If the distance traveled by an object is zero, then the displacement of the object is also zero.

Displacement is defined as the vector that represents the change in position of an object. It is the straight-line distance from the starting point to the ending point in a specific direction. Therefore, if an object has traveled zero distance, it means it has not moved at all from its starting point, resulting in a displacement of zero.

Question 70 :

A lens has a power + 2.0 D. The type of lens and its focal length will be

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. concave, -0.5 m
2. convex, 0.5 m
3. concave, 0.5 m
4. convex, - 0.5 m

Solution :

The correct answer is **option 2** i.e. **convex, 0.5 m**.

- A lens with a power of + 2.0 diopters (D) is a converging lens, also known as a convex lens.
- Therefore, the lens is a converging lens (convex lens) and its focal length is + 50 cm (or + 0.5 meters).

Question 71 :

What will be the resistance of a wire across which, when 2V potential difference is applied, 1A current flows through the wire?



Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 2 Ohms
2. 0.02 Ohms
3. 0.5 Ohms
4. 20 Ohms

Solution :

The correct answer is **option 1** i.e. **20 Ohms**.

The resistance of a wire can be calculated using Ohm's Law, which states that $R=V/I$. Here, V is the potential difference, and I is the current.

Given $V= 2$ volts and $I= 1$ ampere, the resistance R is:

$$R= V/I= 2V/1A= 2$$

Therefore, the resistance of the wire is 2 ohms.

Question 72 :

Name the noble gas which is placed in the third period and eighth group of the Modern Periodic Table.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Helium
2. Argon
3. Neon
4. Krypton

Solution :

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

The noble gas that is placed in the third period and eighth group (Group 18) of the Modern Periodic Table is Xenon (Xe).

Xenon is in the same group as helium (He), neon (Ne), argon (Ar), krypton (Kr), and radon (Rn), which are all noble gases known for their stable electron configurations with full valence shells.

**Question 73 :**

If an object is placed at the centre of curvature of a concave mirror, then the image formed will be:

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. virtual and enlarged
2. virtual and diminished
3. real and of the same size
4. real and enlarged

Solution :

The correct answer is **option 3** i.e. **real and of the same size**.

If an object is placed at the center of curvature of a concave mirror, the image formed will be real, inverted, and of the same size as the object. The image will be located at the center of curvature, which means it will appear at the same distance from the mirror as the object but on the opposite side. This is because rays parallel to the principal axis converge through the focal point, and those through the focal point reflect parallel to the principal axis.

Question 74 :

What is the type of Energy possessed by a stretched rubber band?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Potential energy
2. Kinetic energy
3. Chemical energy
4. Thermal energy

Solution :

The correct answer is **option 4** i.e. **Potential energy**.

The type of energy possessed by a stretched rubber band is elastic potential energy.

Elastic potential energy is the energy stored in an object when it is stretched or compressed. In the case of a stretched rubber band, when it is pulled away from its natural resting length, work is done to stretch it. This work results in the rubber band storing potential energy, which can be released when the rubber band is allowed to return to its original shape.

Question 75 :

The chemical formula of Propane is:

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. C_3H_8
2. C_4H_{10}
3. C_2H_6
4. CH_4

Solution :

The correct answer is **option 1** i.e. C_3H_8

The chemical formula of propane is C_3H_8 .

Here's a breakdown of the formula:

C_3 : Indicates that propane molecule consists of 3 carbon atoms.

H_8 : Indicates that propane molecule consists of 8 hydrogen atoms.

Propane is a hydrocarbon, specifically an alkane, and it belongs to the family of alkanes that have three carbon atoms in their structure.

Rrb Alp CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Alp CBT - 1 Previous Year Question Paper held on 2023-10-27 in the Morning Shift exam is as follows:

1. 75 questions were moderate.
2. The safe score is 40 marks.
3. 75 questions were asked from CBT and 75 questions were asked from CBT
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

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.

Daily Current Affairs



KD Live is providing [Current Affairs](#) on a daily basis for Railways and a [Current Affairs Quiz](#) too for the practice.

KD Live Free Offerings



KD Live is Offering Every Information and Study Material required for the self study. Please click on the following links for accessing those.

- [Study Plan](#)
- [General Science](#)
- [General Awareness](#)
- [General Knowledge](#)
- [Quantitative Aptitude](#)
- [Logical Reasoning](#)

English Language
Today In History
Syllabus
Know Your State
Know Your Country
Know Your City
Know Your Leader
Books And Authors
Daily Vocabulary
Daily Editorial
Latest Notifications
Exam Dates
Admit Card
Exam Results
Exam Cutoff
Exam Eligibility
Exam Pattern
Answer Key
Important Days
Full Form
Government Schemes
Previous Year PDF
Quiz
Courses
Classes



Further Guidance on Rrb Alp CBT - 1 Previous Year Question Paper

For Asking any query on Rrb Alp CBT - 1 Previous Year Question Paper please mail [Send Email](#) or you can fill the form at [KD Live](#).

About KD Live

KD live has an expertise in providing apt explanations for the Rrb Alp CBT - 1 Previous Year Question Paper since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. [Study.kdcampus.live](#) is providing free information on various topics and for the Rrb Alp Exam you can refer the following link [Click Here](#) however if you want to practice more questions then please refer the following link [Click Here](#).





STUDY CONTENTS THAT GET YOU SELECTED



5 LAKH+ STUDENTS
Already enrolled with our
selection focused courses.



30+ EXPERT INSTRUCTORS
Our instructors are the best
in the industry



10000+ HOURS OF VIDEOS
All videos are well-explained for you
to get every bit out of the videos

FREE PDF

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.



Follow us on



Address : 1997, Mukherjee Nagar, 110009

Email : online@kdcampus.org

Call : +91 95551 08888

Download the App

