Rrb Alp CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Alp CBT - 1 Previous Year Question Paper on 2018-08-14 in the Afternoon exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Alp CBT - 1 exam. There are 75 questions in the exam and 60 minutes are provided for the Rrb Alp CBT - 1 exam. The Cutoff of the exam was 40 marks hence you should try to score at least 50 marks.

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

Question 1 :
Select the figure which does NOT belong to the group.

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

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

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

Except for C, in all circles, a line is passing through the centre of the circle. So C is odd from this series.

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

Question 2 :
DWT : GZW :: QPM : _____

Difficulty : Moderate   **Average Time : 38 Seconds**

Options :
1. TSP

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    TPS

3. STP

4. PST

Solution :

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

The pattern that followed here is

D + 3 = G

W + 3 = Z

T + 3= W

Similarly,

Q + 3 = T

P + 3= S

M + 3 = P

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

Question 3 :
Which of the following processes will take place the slowest for the same quantity of liquid?

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

Options :

1. Evaporation

2. Freezing

3. Boiling

4. Condensation

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

- **Evaporation** takes place the slowest for the same quantity of liquid.
- Evaporation happens when a liquid substance becomes a gas. When water is heated, it evaporates.
- The molecules move and vibrates so quickly that they escape into the atmosphere as molecules of water vapor.

Question 4 :
Which of the following animals has a comparatively longer intestine?

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

Options :
1. Dog
2. Tiger
3. Rabbit
4. Fox

Solution :

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

- **Rabbits** are classified as hindgut fermenters and have a highly well developed and well differentiated large intestine.
- The intestine of a rabbit is very much coiled and long, nearly 1.2 metres in length.

Question 5 :
Consider the argument and decide which of the given assumptions is/are implicit. Argument: The highway authority had announced that it will be undertaking a major road repair work for three days beginning Friday between Bangalore and Tumkur. Assumption: People need to plan accordingly for their trip between Bangalore and Tumkur. The authority is troubling citizens with unnecessary repair work.

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

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

Solution :

The correct answer is **Option 3** i.e. **Only assumption 1 is implicit**.

Assumption:

1. People need to plan accordingly for their trip between Bangalore and Tumkur. **Implicit** (It is mentioned in the

statement that some repair work is going on there so people have to plan as per it. So, it is implicit.)
2. The authority is troubling citizens with unnecessary repair work. **Not implicit** (Troubling issue is not mentioned so this is an extraneous information which is not implicated.)

Hence, the correct answer is **Only assumption 1 is implicit**.

Question 6 :
In a hydrogen atom, an electron moves in an orbit of radius 5.0 × 10-11 m with a speed of 2.2 × 106 m/s. What is the equivalent current? (Electronic charge = 1.6 × 10-19 C)

Difficulty : Moderate

Average Time : 67 Seconds

Options :
1. 1.12 mA
2. 0.112 mA
3. 112 mA
4. 11.2 mA

Solution :
The correct answer is **Option 1** i.e. **1.12 mA**.

- Here, the time taken by an electron to complete the orbit is
- T = 2r/v and the frequency f= 1/T
- I = qv2r= = 7 x (10^13) Hz
- Current = 1.6 x (10^-19) x (7 x (10^13)) = 1.12 x (10^-5) Amperes.
- Hence, the equivalent current is **1.12 mA.**

Question 7 :
Fill in the missing space with the correct figure.

Difficulty : Moderate

Average Time : 45 Seconds

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

Solution :

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

As a monkey eats bananas similarly, a rat eats cheese.

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

Question 8 :
The ratio of sand to gravel in a mixture is 7 : 8 while that between gravel and cement is 6 : 7. What is the ratio of sand to cement in the mixture?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 8 : 6

2. 49 : 48

3. 7 : 7

4. 3 : 4

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

Sand : Gravel = 7 : 8

$\dfrac{S}{G} = \dfrac{7}{8}$ ...(1)

Gravel : Cement = 6 : 7

$\dfrac{G}{C} = \dfrac{6}{7}$ ...(2)

On multiplying (1) & (2)

$\dfrac{S}{G} × \dfrac{G}{C} = \dfrac{7}{8} × \dfrac{6}{7}$

$\dfrac{S}{G} = \dfrac{3}{4}$

So the ratio of Sand to Cement is 3 : 4.

Question 9 :
Solid carbon dioxide is known as:

Difficulty : Moderate

Average Time : 48 Seconds

Options :

dry ice

2. wet ice

3. gas ice

4. solid ice

Solution :

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

- Solid carbon Dioxide is commonly known as **dry ice.**
- It gets this name because it does not melt into liquid when heated. It instead changes directly into a gas, a process known as sublimation.
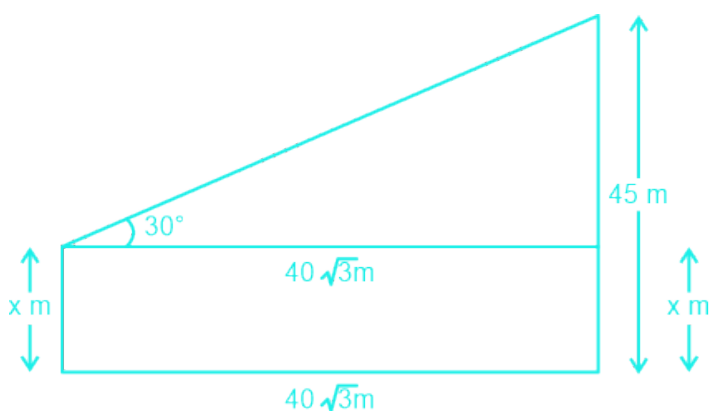
Question 10 :

From the top of a platform, the angle of elevation of a tower was 30°. The tower was 45 m high and the horizontal distance between the platform and the tower was 403 m. What was the height of the platform?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 453 m

2. 40 m

3. 5 m

4. 203 m

Solution :

The correct answer is **Option 3** i.e. **5 m**.

Let the height of the platform be x

tan 30° = (45 - x)/403

1/3 = (45 - x)/403

40 = 45 - x

x = 45 - 40

x = 5

So the height of the platform is 5 m.

Question 11 :
Which of the following is the first Malayalam movie released in 2016 to cross the 100-crore revenue mark?

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

Options :
1. Drishyam
2. Premam
3. Pulimurugan
4. Oru Vadakkan Selfie

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

- Pulimurugan is a 2016 Indian Malayam language action thriller film, directed by Vysakh and starring Mohanlal in the title role.
- It has become the first Malayalam film to enter the 100 crore club.

Question 12 :
The square of 11111 is:

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

Options :
1. 123454321
2. 321231
3. 1223311

1234321

Solution :

The correct answer is **Option 1** i.e. **123454321**.

11 × 11 = 121

111 × 111 = 12321

1111 × 1111 = 1234321

11111 × 11111 = 123454321

Question 13 :

Which of the following elements replaced eka-Aluminium in Mendeleev's Periodic Table?

Difficulty : Moderate

Average Time : 34 Seconds

Options :

1. Titanium

2. Gallium

3. Scandium

4. Germanium

Solution :

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

- â€‹â€‹â€‹â€‹â€‹**Gallium** is a chemical element with symbol Ga and atomic number 31. It has important use in Blu- Blu-ray technology, mobile phones, blue and green LEDs and pressure sensors for touch switches.

Question 14 :

Which of the following changes when a body performs uniform circular motion?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. Direction

2. Speed

3. Momentum

Mass

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

- In a uniform circular motion, a body is going through a force in the inward **direction.**
- Uniform circular motion refers to a circular motion in which the speed of the particle remains constant. In a uniform circular motion, force supplies the centripetal acceleration.

Question 15 :
At 8% simple interest per annum a sum of money becomes Rs. 300 in (2 {1over2}) years. What was the sum invested?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Rs. 275

2. Rs. 240

3. Rs. 250

4. Rs. 260

Solution :
The correct answer is **Option 3** i.e. **Rs**. **250**.

Amount = Rs 300

Rate = 8%

Time = $2 {1\over2}$ years or 2.5 years

let the sum invested be P

Amount = Principal + SI

300 = P + SI

 SI = 300 - P

SI = $\dfrac{P × R × T}{100}$

300 - P = $\dfrac{P × 8× 2.5}{100}$

3000 - 10P = 2P

12P = 3000

P = 250

So Rs 250 were invested.

Question 16 :

Roshan's current age is three years less than 1.5 times that of Usha's. 12 years ago Usha's age was three years more than half of Roshan's age. What is Roshan's present age in years?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 42
2. 33
3. 39
4. 30

Solution :

The correct answer is **Option 1** i.e. **42**.

Let Roshan and Usha's ages be M and N years respectively.
Roshan's current age is three years less than 1.5 times Usha's age,
$M = 1.5 N - 3$
$N = (M + 3)/1.5$
12 years ago, Usha's age was three years more than half of Roshan's age,
$(N - 12) = (M - 12)/2 + 3$
$2 N - 24 = M - 12 + 6$
$2 N - M = 18$
$2(3 + M)/1.5 - M = 18$
$6 + 2 M - 1.5 M = 27$
$0.5 M = 21$
$M = 42$
Roshan's age is 42 years.

Hence, the correct answer is **42.**

Question 17 :

If a solution turns blue litmus red, its pH is likely to be:

Difficulty : Moderate

Average Time : 57 Seconds

Options :

9

2. 6

3. 8

4. 7

Solution :

The correct answer is **Option 2** i.e. **6**.

- If a solution turns a blue litmus into red, it's pH will likely be **6.**
- When Blue paper turns Red in acid, the pH will be less than 7 and when Red turns Blue in the base, the pH will be more than 7.

Question 18 :

Consider the given statements to be true and decide which of the given conclusions can definitely be drawn from the statements. Statements: All sharks are fish. No fish is a snake. Conclusions: No snake is a shark. No shark is a snake.
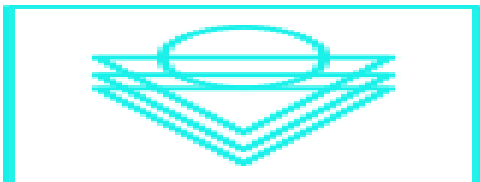
Difficulty : Moderate   **Average Time : 51 Seconds**

Options :

1. Only conclusion 2 follows.

2. Neither 1 nor 2 follows.

3. Only conclusion 1 follows.

4. Both 1 and 2 follow.

Solution :

The correct answer is **Option 4** i.e. **Both 1 and 2 follow.**

The least possible Venn diagram would be:

Conclusions:

1. No snake is a shark. **True** (As all sharks are fish and fish and snake have negative relation means no fish can be a part of a snake so no snake is a shark is true)

No shark is a snake. **True** (As all sharks are fish and fish and snake have negative relation means no fish can be a part of a snake so, no shark can be a part of a snake is true)

Hence, the correct answer is **Both 1 and 2 follow.**

Question 19 :

Qamar gained 16% on the resale of a used stereo. If he purchased the item for â,¹ 1,500, how much did he sell it for?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. â,¹ 1,660
2. â,¹ 1,600
3. â,¹ 1,740
4. â,¹ 1,820

Solution :

The correct answer is **Option 3** i.e. **â,¹ 1,740**.

Gain = 16%

Cost Price = Rs 1500

Gain% = $\dfrac{SP - CP}{CP} Ã— 100$

16 = $\dfrac{SP - 1500}{1500} Ã— 100$

SP - 1500 = 16 × 15

SP - 1500 = 240

SP = 240 + 1500

SP = 1740

So he sold it for Rs. 1740.

Question 20 :

Select the missing term based on the given related pair of words. _____ : Hand :: Sole : Foot

Difficulty : Moderate

Average Time : 45 Seconds

Options :

Finger

2. Wrist

3. Palm

4. Nail

Solution :

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

As the sole is related to the foot similarly, the palm is related to the hand.

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

Question 21 :

Which of the following is a Pythagorean triplet?

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

Options :

1. 2,3,5

2. 7,9,11

3. 17,21,29

4. 8,15,17

Solution :

The correct answer is **Option 4** i.e. **8,15,17**.

In order to be a Pythagorean triplet, the following condition must be satisfied

$a^2 + b^2 = c^2$

For (2, 3, 5)

$2^2 + 3^2$ is not equal to 5^2

For (7, 9, 11)

$7^2 + 9^2$ is not equal to 11^2

For (17, 21, 29)

$17^2 + 21^2$ is not equal to 29^2

For (8, 15, 17)

$8^2 + 15^2 = 17^2$

64 + 225 = 289

289 = 289

Hence (8, 15, 17) is a Pythagorean triplet.

Question 22 :
A/an _____ flame is produced when the oxygen supply is sufficient.

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

Options :
1. green
2. orange
3. red
4. blue

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

- A **blue** flame is produced when the oxygen supply is sufficient.
- A natural gas blue flame shows that the burner is providing the correct air-fuel mixture, with sufficient oxygen for complete combustion at the burner.
- A blue flame burns the fuel completely producing carbon dioxide, water and heat.

Question 23 :
If a young son works quickly for 2 hours and prepares 16 items in a day, and his old father works slowly for 8 hours and prepares 24 items in a day, which of the following is true?

Difficulty : Moderate   **Average Time : 52 Seconds**

Options :
1. The son has more energy.
2. The son has more power.

Both have equal power.

4. Both have equal energy.

Solution :

The correct answer is **Option 2** i.e. **The son has more power.**

- Here, the son works for 2 hours and prepares 16 items in a day. So, the son prepares= 16/2= 8 items in 1 hour.
- On the other hand, his old father prepares 24 items in 8 hours.
- So, in 1 hour, the father prepares=24/8 = 3 items
- Thus, it can be concluded that **the son has more power** as compared to the father.

Question 24 :
ABC$+#DEF&=?GHI!2*@ From the above sequence find the missing term. ADG : +=2 :: CEI : _____

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

Options :
1. E@?

2. D@?

3. E?@

4. D?@

Solution :

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

The pattern that followed here is

A + 4 = +

D + 4 = =

G + 4 = 2

Similarly,

C + 4 = D

E + 4 = ?

I + 4 = @

Hence, the correct answer is **D?@**

Question 25 :

An object weighing 20 kg is raised through a height of 2 m. What will be the work done by the force of gravity in this process? (Take g = 10 m/s2)

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. 50 J

2. 100 J

3. 400 J

4. 40 J

Solution :

The correct answer is **Option 3** i.e. **400 J**.

- The work done by the force of gravity is **400 J.**
- Here, m x g x h
- Gravitational Potential Energy = m (mass) x g (acceleration) x h (height)
- 2 x 10 x 20 = 400 J.

Question 26 :

Consider the given question and decide which of the following statements is sufficient to answer the question. What is the value of 14$20*8#4? Statements: $ implies -, * implies +, # implies ÷ 14$20*8 = 25

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. Both statements 1 and 2 are sufficient

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

3. Neither statement 1 or 2 is sufficient

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

Solution :

The correct answer is **Option 2** i.e. **Statement 1 alone is sufficient while statement 2 alone is insufficient**.

Statements:

1. $ implies -, * implies +, # implies ÷

Given question: What is the value of 14$20*8#4?

By using the given signs

we get,

14$20*8#4

14 - 20 + 8 ÷ 4

14 - 20 + 2 = -4

So, statement 1 alone is sufficient to answer.

2. 14$20*8 = 25

Statement 2 does not have the meaning of special characters. So, statement 2 alone is not sufficient to answer.

Hence, the correct answer is **Statement 1 alone is sufficient while statement 2 alone is insufficient**.

Question 27 :
_____ is known as India's Spice Garden.

Difficulty : Moderate   Average Time : 63 Seconds

Options :

1. Rajasthan

2. Kerala

3. Maharashtra

4. Karnataka

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

- **Kerala** is known as the Spice Garden of India as it has a variety of spices and is world famous for it.
- The major locations where these spices are cultivated in Kerala are Idukki and Wayanad. The major spices cultivated are black pepper, cardamom, nutmeg, turmeric, ginger, clove, cinnamon etc.

Question 28 :
Which Indian actor-turned-politician won the 2017 Filmfare Lifetime Achievement Award?

Difficulty : Moderate   Average Time : 45 Seconds

Options :

    Amitabh Bachchan

2. Vinod Khanna

3. Shatrughan Sinha

4. Dharmendra

Solution :

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

- **Shatrughan Sinha,** who completed nearly 5 decades in the film industry was presented the Lifetime Achievement Award at the 62nd Jio Filmfare Awards in 2017.
- The Lifetime Achievement Award denotes honouring an individual who has dedicated his/her life to show business.

Question 29 :

Facing North, Aishwarya turns 45° clockwise, then 135° anticlockwise and then 180° clockwise. Which direction is she facing now?

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

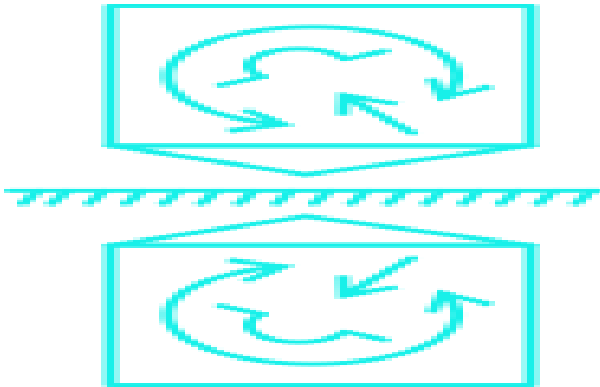**Options :**

1. North

2. West

3. South

4. East

Solution :

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

As per the information diagram would be

So, she is facing east.

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

Comprehension :
Directions: The given graph shows the distribution of minerals in the human body.

Question 30 :
Based on the given data, what is the ratio of the metal with the third highest percentage of distribution to that with the second lowest percentage of distribution in the human body?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 3 : 1

2. 4 : 1

3. 2 : 1

4. 1 : 2

Solution :

The correct answer is **Option 3** i.e. **2 : 1**.

The mineral with the third highest percentage is Magnesium

The mineral with second lowest percentage is Potassium

Ratio = 18 : 9

= 2 : 1

Question 31 :

The area of the base of a cone is 64 cm2 while its slant height is 17 cm. This cone is remolded to obtain a solid sphere. The radius of this sphere will be:

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 6.5 cm

2. $2\sqrt[3]{30}$ cm

3. $2\sqrt[3]{40}$ cm

4. $8\sqrt[3]{30}$ cm

Solution :

The correct answer is **Option 2** i.e. $2\sqrt[3]{30}$ **cm**.

Area of base = 64 cm^2

$r^2 = 64$

$r = 8$

Slant height = 17

Using Pythagoras theorem to find the height of the cone

$(17)^2 = (h)^2 + (8)^2$

$(h)^2 = 289 - 64$

$(h)^2 = 225$

h = 15

Volume of cone = $r^2 h/3$

= (× 8 × 8 × 15)/3

= 320

Cone is remolded to obtain a solid sphere. So,

Volume of cone = Volume of sphere

$320 = \dfrac{4}{3} r^3$

$r^3 = 320 \times \dfrac{3}{4}$

$r^3 = 240$

$r = 2\sqrt[3]{30}$

Question 32 :

Which of the following devices converts Chemical energy into Electrical energy?

Difficulty : Moderate   **Average Time : 93 Seconds**

Options :

1. Electric cell
2. Electric heater
3. Hair dryer
4. Electric fan

Solution :

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

- **Electric cell** converts chemical energy into electrical energy.
- Electric cell is a device capable of either generating electrical energy from chemical reactions or by using electrical energy to cause chemical reactions.

Question 33 :

The angle of depression of the foot of a building from the top of a tower 30 m away is 30°. How high is the tower?

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. 103 m
2. 203 m
3. 20 m
4. 30 m

Solution :

The correct answer is **Option 1** i.e. **103 m**.

- Here, tan C= AB/BC
- tan 30 degree= AB/30
- 1/3 = AB/30

AB = 30/3
- (30 x 3) / (3 x 3)
- (303) /3
- Hence, the height of the tower is
- **103 m**

Question 34 :

These regional teams: Dabang Mumbai, Kalinga Lancers, Ranchi Rays and Delhi Waveriders play against each other in which sports league competition?

Difficulty : Moderate   **Average Time : 52 Seconds**

Options :

1. Pro Kabaddi League

2. Hockey India League

3. Indian Premier League

4. United Basketball Alliance

Solution :

The correct answer is **Option 2** i.e. **Hockey India League**.

- The regional teams played against each other in Hockey India League.
- **Hockey India League** was founded in 2013 and is also known as the Coal India Hockey.
- At present, there are a total of 6 teams- Dabang Mumbai, Delhi Waveriders, Kalinga Lancers, Punjab Warriors, Ranchi Rays and Uttar Pradesh Wizards.

Question 35 :

Select the number missing from the given series. 3, 12, _____, 21612

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

Options :

1. 149

2. 150

3. 147

4. 200

Solution :

The correct answer is **Option 3** i.e. **147**.

The pattern that followed here is:

$3^2 + 3 = 12$;

$12^2 + 3 = 147$;

$147^2 + 3 = 21612$;

Hence, **"147"** is the missing number in the given series.

Question 36 :
Select the related letters from the given alternatives: PUNE : SXQF :: CITY : _____

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. FLWZ

2. GMVZ

3. FLXZ

4. EKVZ

Solution :

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

The pattern that followed here is

PUNE : SXQF

P + 3 = S

U + 3 = X

N + 3 = Q

E + 1 = F

CITY :

C + 3 = F

I + 3 = L

T + 3 = W

$Y + 1 = Z$

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

Question 37 :
The unit of momentum is:

Difficulty : Moderate   Average Time : 45 Seconds

Options :

1. Kgms
2. $Kgms^{-1}$
3. $Kgms^{-2}$
4. $Kgms^{2}$

Solution :
The correct answer is **Option 2** i.e. $\mathbf{Kgms^{-1}}$.

- The unit of momentum are $\mathbf{Kgms^{-1}}$ or Newton seconds **Ns.**
- Momentum is the product of the mass and velocity of an object. Momentum has both magnitude and direction and is thus a vector quantity.

Question 38 :
Name the stage of mitosis during which the chromosomes of a dividing cell lies at the equatorial plate?

Difficulty : Moderate   Average Time : 48 Seconds

Options :

1. Metaphase
2. Anaphase
3. Telophase
4. Prophase

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

- **Metaphase,** which is the third phase of mitosis, is the process that separates duplicated genetic material carried in the nucleus of a parent cell in two identical daughter cells.
- During metaphase, the cell's chromosomes align themselves in the middle of the cell through a type of cellular 'tug

of war.'

Question 39 :

What is the mean of first hundred natural numbers?

Difficulty : Moderate   **Average Time : 46 Seconds**

Options :

1. 50

2. 51.5

3. 50.5

4. 51

Solution :

The correct answer is **Option 3** i.e. **50.5**.

We know that sum of n terms in a series = n(n +1)/2

Sum of first 100 natural numbers = 100(100 + 1)/2 = 5050

Now, number of terms = 100

Mean = 5050/100 = 50.5

Question 40 :

The average marks obtained by Raghav in 12 tests is 24. Zubeida has maintained an average of 23 so far but has taken only 9 of the tests. If each test is out of 30, at least how much must Zubeida score in any one of the remaining three tests to still have a chance to match Raghav's performance?

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

Options :

1. 21

2. 22

3. 19

4. 20

Solution :

The correct answer is **Option 1** i.e. **21**.

Average = $\dfrac{Sum \ of \ outcomes}{No. \ of \ outcomes}$

Raghav's average = 24

No. of tests = 12

Sum = 24 × 12

= 288

Zubeida's average = 23

No. of tests = 9

Sum = 23 × 9

= 207

Difference in sum = 288 - 207 = 81

So least marks required = 81 - 30 - 30

= 21

Question 41 :
In the modern periodic table, which of the two periods contain 8 elements each?

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

Options :
1. 1 and 2
2. 4 and 5
3. 2 and 3
4. 3 and 4

Solution :
The correct answer is **Option 3** i.e. **2 and 3**.

- The period **2 and 3** contains 8 elements each, in the modern periodic table.
- The second periodic table consists of 8 elements- Li3, Be4, B5, C6, N7, O8, F9 and Ne10.
- The Third periodic table consists of 8 elements- Na11, Mg12, Al13, Si14, P15, S16, Cl17 and Ar18.

Question 42 :
As per Economic Survey 2017-18, the percentage contribution of the Services Sector to India's GDP will be in the range

of:

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

Options :

1. Greater than 50%

2. Less than 30%

3. Between 40-50%

4. Between 30-40%

Solution :

The correct answer is **Option 1** i.e. **Greater than 50%**.

- India's GDP contribution to the Services Sector as per the Economic Survey 2017-18 will be **greater than 50%.**
- The service sector is estimated to grow at 8.3% in 2017-18 over 7.7% as compared to year 2016-17.

Question 43 :

Which celebrity is the author of the book 'An Unsuitable Boy'?

Difficulty : Moderate   **Average Time : 43 Seconds**

Options :

1. Shatrughan Sinha

2. Karan Johar

3. Shah Rukh Khan

4. Khuswant Singh

Solution :

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

- The book 'An Unsuitable Boy' was authored by **Karan Johar.**
- The book is an autobiography that chronicles the life story of the celebrated filmmaker.

Question 44 :

X's rank was 12 from the top. If the total number of students in the class was 16, then X's rank from the bottom of the class is:

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

Options :

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

Solution :

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

The total number of students in the class is 16.

X's got the 12th rank which means 11 students are ahead of X. 4 students got ranks after X.

So X's rank from the bottom of the class would be

= 16 - 12 + 1

= 5

X's rank from the bottom of the class would be 5th.

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

Question 45 :
As of 2018, who is the Chairman of the University Grants Commission (UGC)?

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

Options :

1. Najma Heptulla
2. V.K. Saraswat
3. Anil Sahasrabudhe
4. D.P. Singh

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

- As per 2018, **D.P. Singh** is the chairman of the University Grant's Commission (UGC). He is an Indian naturalist and an academic admiadministrator.
- The UGC is a statutory body set up by the Department of Higher Education, Ministry of Education, Government of

India as per the UGC Act of 1956.

Question 46 :
Which of the following Venn diagrams correctly represents the following classes: Men, Fathers, Doctors

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1.

2.

3.

4.

Solution :

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

As all fathers are men so the father is a part of men and doctors can be fathers and men too. so doctors will be a part of men as well as fathers.

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

Comprehension :
Directions: The given graph shows the registration of bikes and total vehicles (in thousands) for 6 months in 2017 in City X. In the chart, the first number represents bikes (grey) and the second number represents total vehicles (black).

Question 47 :

Based on the given data, in March 2017, the number of vehicles other than bikes registered is:

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

Options :

1. 15000

2. 10000

3. 11000

4. 9000

Solution :

The correct answer is **Option 2** i.e. **10000**.

In March 2017-

Number of bikes registered = 15000

Total vehicles registered = 25000

Number of vehicles registered other than bike = 25000 - 15000 = 10000

Question 48 :

Which of the following physical quantity measures the rate of work done?

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

Options :

1. Force

2. Power

3. Momentum

4. Energy

Solution :

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

- **Power** is defined as the time rate of the amount of energy converted or transferred.
- In the SI system, Watt(W) is the Unit of Power. Watt is equal to one Joule per second.
- Power is always a function of work. Therefore, if a person works at a variable rate depending on the time of day, his

power will likewise vary.

Question 49 :

Select the Answer Figure that is the correct water image of the given Problem Figure.

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

Options :

1. D

2. A

3. B

4. C

Solution :

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

As in the water image only the up and downside will be changed so, D follows the correct rule and it is the right water image of the given figure.

Hence, the correct answer is **option 1 (D).**

Question 50 :

Consider the argument and decide which of the given assumptions is/are implicit. Argument: Akbar said to his queen, "Birbal is the wisest man in my kingdom." Assumption: Akbar is not as wise as Birbal. Akbar wants Birbal to become the next king.

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

Options :

1. Only assumption 1 is implicit

2. Only assumption 2 is implicit

3. Both 1 and 2 are implicit

4. Neither 1 nor 2 is implicit

Solution :

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

Argument:

Akbar said to his queen, "Birbal is the wisest man in my kingdom."

Assumption:

1. Akbar is not as wise as Birbal. **Implicit** (As the statement states that Birbal is the wisest man so it is implicit)
2. Akbar wants Birbal to become the next king. **Not implicit** (This is not mentioned in the statement so it is extraneous information thus, it is not implicit.)

Hence, the correct answer is **Only assumption 1 is implicit**.

Question 51 :

Implantation is the process of:

Difficulty : Moderate   Average Time : 59 Seconds

Options :

1. developing an embryo and its nourishment

2. the development of a child inside the mother's body

3. nutrition from mother's blood through placenta

4. attachment of zygote to the lining of a uterus

Solution :

The correct answer is **Option 4** i.e. **attachment of zygote to the lining of a uterus**.

- Implantation is the process of **attachment of zygote to the lining of a uterus.**
- It is the process in which a developing embryo through the uterus, makes contact with the uterine wall and remains attached to it until birth.
- The lining of the uterus prepares for the developing blastocyst to attach to it via many internal changes. Without these changes, implantation will not occur.

Question 52 :

The HCF of 36,54 and 108 is:

Difficulty : Moderate   Average Time : 58 Seconds

Options :

1. 18

2. 6

3. 9

12

Solution :

The correct answer is **Option 1** i.e. **18**.

Factor of 36 - 1, 2, 3, 4, 6, 9, 12, 18, 36

Factors of 54 - 1, 2, 3, 6, 9, 18, 27, 54

Factors of 108 - 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 108

So the highest common factor of 36, 54, and 108 is 18.

Question 53 :
Consider the given statement to be true and decide which of the given conclusions can definitely be drawn from the statement. Statement: Many people living in villages relocate to cities for a better future. Conclusions: Government officers should have compulsory rural posting. Increase more transport facilities between cities and villages.

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

Options :
   1. Both 1 and 2 follow.

   2. Only conclusion 1 follows.

   3. Neither 1 nor 2 follows.

   4. Only conclusion 2 follows.

Solution :

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

Given Statement:

Many people living in villages relocate to cities for a better future.

Conclusions:

1. Government officers should have compulsory rural posting. **Does not follow** (Given statement is not about this, so it has extraneous information. Hence, it does not follow.)
2. Increase more transport facilities between cities and villages. **Does not follow** (Given statement is not about this, so it has extraneous information. Hence, it does not follow.)

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

Question 54 :

Arjun and Anurag complete a job in 6 days and 7 days respectively. They worked together and earned a total of Rs. 780. Find Arjun's share in this amount. (in Rs.)

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

Options :

1. 560

2. 490

3. 350

4. 420

Solution :

The correct answer is **Option 4** i.e. **420**.

Ratio of time taken by Arjun and Anurag = 6 : 7

Efficiency ratio of Arjun and Anurag = 7 : 6

Arjun's share = $\dfrac{7}{13}$ × 780 = 420

Question 55 :

Select the term missing from the given series. Y-25, W-23, U-21, S-19, ?

Difficulty : Moderate   **Average Time : 38 Seconds**

Options :

1. S-8

2. Q-17

3. P-16

4. Q-10

Solution :

The correct answer is **Option 2** i.e. **Q-17**.

Pattern: Positional value of letters and subtracting 2 from each letter.

Given series: Y-25, W-23, U-21, S-19, ?

So next term would be Q-17. {(S-19)- 2} = Q-17

Hence, the correct answer is **Q-17.**

Question 56 :

A, B and C can complete a task together in 10 days. A and B would need 12 days if only the two of them worked, while B and C would take 20 days if only the two of them worked. If B worked alone, how many days would she take to complete the task?

Difficulty : Moderate   **Average Time : 52 Seconds**

Options :

1. 30

2. 22

3. 20

4. 45

Solution :

The correct answer is **Option 1** i.e. **30**.

$\dfrac{1}{A} + \dfrac{1}{B} + \dfrac{1}{C} = \dfrac{1}{10}$ ....(1)

$\dfrac{1}{A} + \dfrac{1}{B} = \dfrac{1}{12}$ ....(2)

$\dfrac{1}{B} + \dfrac{1}{C} = \dfrac{1}{20}$ ....(3)

On adding (2) and (3)

$\dfrac{1}{A} + \dfrac{1}{B} + \dfrac{1}{B} + \dfrac{1}{C} = \dfrac{1}{12} + \dfrac{1}{20}$

$\dfrac{1}{10} + \dfrac{1}{B} = \dfrac{2}{15}$ [using (1)]

$\dfrac{1}{B} = \dfrac{2}{15} - \dfrac{1}{10}$

$\dfrac{1}{B} = \dfrac{1}{30}$
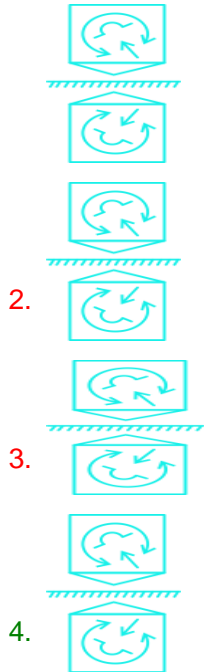
 B = 30

So B would alone complete the task in 30 days.

Question 57 :

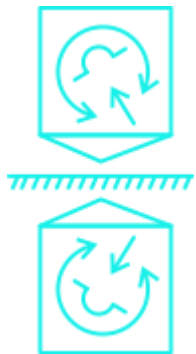Select the correct mirror image of the given figure if the mirror is placed horizontally as shown.

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

Options :

2.

3.

4.

Solution :

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

In the mirror image, only the left and right sides of the image will be changed and the mirror is placed horizontally so the right image is only option 4.

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

Question 58 :
A computer always has a:

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Keyboard
2. Mouse
3. Graphics card
4. CPU

Solution :

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

- A computer always has a **CPU.**
- The Central Processing Unit (CPU) is an electronic machinery that carries out instructions from programs that allows a computer or other devices to perform its tasks. The CPU is also known as the brain of the computer.

Question 59 :

Who is the first Indian player to score a century in his debut One day International Cricket match? The said player achieved this feat in 2016.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Hardik Pandya
2. Karun Nair
3. Jayant Yadav
4. K.L. Rahul

Solution :

The correct answer is **Option 4** i.e. **K.L Rahul**

- **K.L Rahul** became the first ever Indian to score ODI century on his debut against Zimbabwe in 2016.
- K.L Rahul scored 100 runs in 115 balls in an innings studded with 7 fours and 1 six.

Question 60 :

A natural number, when divided by 4, 5, 6 or 7, leaves a remainder of 3 in each case. What is the smallest of all such numbers?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 843

2. 213

3. 63

4. 423

Solution :

The correct answer is **Option 4** i.e. **423**.

LCM of 4, 5, 6, and 7 = 420

The remainder in each case = 3

So the number which will leave the remainder 3 = 420 + 3 = 423

Question 61 :
Rahi deposited Rs 600 in a bank that promised 8% simple interest per annum. If Rahi kept the money with the bank for 5 years, she will earn an interest of:

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. Rs 480

2. Rs 240

3. Rs 280

4. Rs 200

Solution :

The correct answer is **Option 2** i.e. **Rs 240**.

SI = $\dfrac{P \times R \times T}{100}$

= $\dfrac{600 \times 8 \times 5}{100}$

= 240

So Rahi will earn an interest of Rs 240.

Question 62 :

The _____ founded the first city of Delhi and named it Indraprastha.

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. Mughals

2. Pandavas

3. Portuguese

4. Kauravas

Solution :

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

- According to Mahabharata, Indraprastha was the capital of the kingdom led by the **Pandavas.**
- The Pandavas founded the first city of Delhi and named it Indraprastha.

Question 63 :

Tapan, Ravi and Trisha shared a cake. Tapan had (1over4) of it, Trisha had (2over3) of it and Ravi had the rest. What was Ravi's share of the cake?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. $1\over12$

2. $1\over6$

3. $2\over6$

4. $4\over7$

Solution :

The correct answer is **Option 1** i.e. **$1\over12$**.

Let Ravi's share of the cake = x

According to the given information,

$1\over4$ + $2\over3$ + x = 1

3 + 8 + 12 x = 12

12 x = 12 - 11

x = $1\over12$

Hence, the correct answer is $1\over12$

Question 64 :
Pipes A and C can fill an empty cistern in 32 and 48 hours, respectively while Pipe B can drain the filled cistern in 24 hours. If the three pipes are turned on together when the cistern is empty, how many hours will it take for the cistern to be (2over3) full?

Difficulty : Moderate   **Average Time : 63 Seconds**

Options :

1. 96

2. 64

3. 48

4. 72

Solution :

The correct answer is **Option 2** i.e. **64**.

Work done in 1 hour by all 3 pipes = $\dfrac{1}{32} + \dfrac{1}{48} - \dfrac{1}{24}$

= $\dfrac{384}{36864}$

= $\dfrac{1}{96}$

Time taken to fill $2\over3$rd of the cistern = $2\over3$× 96 = 64 hours

Question 65 :
Fill in the blank with the most appropriate option. 18 volts = _____ × 3 ohms.

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

Options :

1. 6 joules

2. 6 amperes

3. 6 watts

4. 6 milliamperes

Solution :

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The correct answer is**Option 2** i.e. **6 amperes**.

- Where V= potential difference, R= resistance and I= current
- Here, V= 18 and R= 3
- According to ohm's law,
- V= IR
- I= V/R
- I= 18/3= **6 A**

Question 66 :

Ram's father is twice as old as Ram is. Eight years ago the age of Ram's father was 2.5 times his age. What is Ram's current age?

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

Options :

1. 25 years

2. 24 years

3. 23 years

4. 22 years

Solution :

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

Let x be the father's age and y be Ram's age.

According to the question,

x = 2y (since his dad is 2 times his age)

x - 8 = 2.5(y - 8) (as 8 years ago, the father was 2.5 times his age)

Subtract the x = 2y into the equation

2y - 8= 2.5(y - 8) multiply out the brackets.

2y - 8 = 2.5y - 20 (rearrange to get the y's on one side and numbers on the other)

12 = .5y

y = 24

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

Question 67 :

The percentage of carbon in CO2 is:

Difficulty : Moderate   **Average Time : 59 Seconds**

Options :

1. 12

2. 14

3. 44

4. 27.3

Solution :

The correct answer is **Option 4** i.e. **27.3**.

- The percentage of carbon in CO2 is **27.3.**
- Here, Mass of carbon= 12
- Mass of oxygen= 16 as there are 2 oxygen (16 x 2= 32)
- 12/32+12= 0.2727
- 0.2727 x 100=27.21%
- Hence, the percentage of carbon in CO2 is approximately 27.3.

Question 68 :

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 : 45 Seconds**

Options :

1. 35

2. 47

3. 45

4. 37

Solution :

The correct answer is **Option 4** i.e. **37**.

The pattern that followed here is

A = 3 × 3 + 6 × 5 = 39

B = 5 × 7 + 4 × 4 = 51

Similarly, C = 3 × 4 + 5 × 5 = 37

Hence, the correct answer is **37.**

Question 69 :
Choose the correct water image of the given figure.

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

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

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

In the water image, the upside and downside will be changed only and the left and right will be the same. So, B is the right water image of the given figure.

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

Question 70 :
How many triangles are present in the following figure?

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

Options :
  1. 16
  2. 12
  3. 14
  4. 15

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

Given figure:

The simplest triangles are ABF, BIC, CIH, GIH, FGE and AFE = 6

The triangles composed of two components each are ABE, AGE, BHF, BCH, CGH and BIE = 6

The triangles composed of three components each are ABH, BCE and CDE = 3

So, the total number of triangles in the figure = 6 + 6 + 3 = 15

Hence, the correct answer is **15.**

Question 71 :
Choose the correct figure from the answer figures that replaces the question mark.

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

Options :

1. 3

2. 2

3. 1

4. 4

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

The figure will rotate in a clockwise direction (90 degrees). So, the next correct figure will be

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

Question 72 :
Which assembly constituency within Chennai city was forced to have a recent by-election because of the death of then Chief Minister Jayalalithaa?The

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Royapuram

2. Saidapet

3. Thousand Lights

4. RK Nagar

Solution :

The correct answer is **Option 4** i.e. **RK Nagar**.

- The by-elections in **RK Nagar** became necessary after the death of former Chief Minister J Jayalalithaa, who represented it for two terms.
- The decision came after Income Tax raids in Chennai found money being distributed to voters.

Question 73 :

Non-metal oxides are usually:

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. acidic

2. neutral

3. basic

4. amphoteric

Solution :

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

- Non metal oxides are oxide compounds formed by nonmetal elements. They are covalent compounds since they share electrons with oxygen atoms to form oxide molecules.
- Most nonmetal oxides give acids after reacting with water. Hence, nonmetal oxides are **acidic compounds.**

Question 74 :

The square root of which of the following numbers is irrational?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 3969
2. 6560
3. 5625
4. 1764

Solution :

The correct answer is **Option 2** i.e. **6560**.

$3969 = 9^2 \times 7^2$

$6560 = 2^5 \times 5 \times 41$

$5625 = 25^2 \times 3^2$

$1764 = 2^2 \times 3^2 \times 7^2$

So the square root of 6560 is irrational.

Question 75 :
Hydra reproduces by:

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

Options :

1. Binary fission
2. Budding
3. Fragmentation
4. Multiple fission

Solution :

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

- Hydra reproduces asexually by **Budding.**
- Budding is a form of asexual reproduction that results from the outgrowth of a part of a cell or body region, leading to a separation from the original organism into two individuals.

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Analysis

The analysis of Rrb Alp CBT - 1 Previous Year Question Paper held on 2018-08-14 in the Afternoon exam is as follows:

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

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

CBT -1

1. GK - 1

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

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

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