



# Rrb Group D CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Group D CBT - 1 Previous Year Question Paper on 2018-10-16 in the Evening exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Group D CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Group D CBT - 1 exam. The Cutoff of the exam was 77 marks hence you should try to score at least 87 marks.

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

### Question 1 :

Consider the following statements. 1. Mode can be computed from histogram 2. Median is not independent of change of scale 3. Variance is independent of change of origin and scale Which of these is/are correct?

Difficulty : Moderate

Average Time : 48 Seconds

### Options :

1. Only (2)
2. Only (1) and (2)
3. Only (1)
4. All (1), (2) and (3)

### Solution :

Correct Answer is option 2 i.e. Only (1) and (2)

Application



1. Mode could be computed from a histogram if each bin is only one unit wide.
2. Median is the medium value of the terms. Hence, it is independent of the change of scale.
3. Variance depends on the data, if the scale changes, the data will change and variance of the data will change.

Hence, Only (1) and (2) are correct.

**Question 2 :**

The ratio of two numbers is 5 : 6 and their LCM is 150. Find the sum of the two numbers.

Difficulty : Moderate

Average Time : 92 Seconds

**Options :**

1. 50
2. 60
3. 54
4. 55

**Solution :**

Correct Answer is **option 4** i.e. **55**

Understanding	Application
Ratio of 2 numbers = 5 : 6 Suppose numbers are 5x and 6x.	Since LCM of the numbers is 150; $5 \times 6 \times x = 150$ $x = 5$
Hence, Numbers = 25 and 30	Sum of numbers = 30 + 25 = 55

**Question 3 :**



What does the KUSUM Scheme promote?

Difficulty : Moderate

Average Time : 129 Seconds

Options :

1. Solar heating in homes
2. Solar lighting in industries
3. Solar-powered transport
4. Solar farming

Solution :

The correct answer is **option 4** i.e. **Solar farming**.

KUSUM Scheme:

- The PM-KUSUM scheme was launched by the Ministry of New and Renewable Energy (MNRE) to support installation of off-grid solar pumps in rural areas and reduce dependence on grid, in grid-connected areas.
- It entails setting up of 25,750 MW solar capacity by 2022 with a total central financial support of Rs 34,422 crore.

Question 4 :

Read the given statement and choose which argument is strong. Statement: Watching cartoon movies is better than reading books. Arguments: I. Yes, watching cartoon movies is entertaining. II. No, reading books inculcates love of knowledge and reading habit in children.

Difficulty : Moderate

Average Time : 76 Seconds

Options :

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

Solution :

The correct answer is option 2 i.e. Only argument II is strong.

Understanding	Application
<b>Statement:</b> Watching cartoon movies is better than reading books.	<b>Arguments:</b> I. Yes, watching cartoon movies is entertaining. (Not strong as reading books can also be equally entertaining) II. No, reading books inculcates love of knowledge and reading habit in children. (Strong as it tells the productive benefits of reading books) Hence, Only argument II is strong.

**Question 5 :**

Which movie won the Oscars for Best Picture in 2017?

**Difficulty : Moderate****Average Time : 82 Seconds****Options :**

1. Manchester by the Sea
2. La La Land
3. Moonlight
4. Spotlight

**Solution :**The correct answer is **option 3** i.e. **Moonlight**.

- Moonlight took home Oscars 2017 Best Picture honors after a mishap had La La Land being declared the winner by presenters Warren Beatty and Faye Dunaway.
- La La Land did manage to score six total Oscars, including a win for Emma Stone! Casey Affleck, Viola Davis and Mahershala Ali also took home acting Oscars.

**Question 6 :**

Complete the number series by choosing the correct options. 1, 8, 27, 64, ....., ....., 343, ....., 729.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 125, 216, 512
2. 125, 262, 515
3. 125, 213, 510
4. 145, 261, 512

Solution :

The correct answer is **option 1** i.e. **125, 216, 512**.

Understanding	Application
1, 8, 27, 64, ....., ....., 343, ....., 729 Given series is a series containing cube of natural numbers starting with 1	$1^3 = 1, 2^3 = 8, 3^3 = 27, 4^3 = 64$ Next terms: $5^3 = 125, 6^3 = 216$ 8th term = $8^3 = 512$ Hence, 125, 216, 512 is the answer.

Question 7 :

Solve the following equation: = ?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. -3/11
2. 3/11
3. 5/11
4. -5/11

**Solution :**

Correct Answer is **option 4** i.e. **-5/11**

Application

$$\frac{3^2-8^2}{(3+8)^2}$$

We know that:

$$a^2 - b^2 = (a - b)(a + b)$$

$$\Rightarrow \frac{(3-8)(3+8)}{(3+8)^2}$$

$$\Rightarrow \frac{(3-8)}{(3+8)}$$

$$\Rightarrow -5/11$$

**Question 8 :**

Who is the first Indian female cricketer to score 2000 runs in T20 International Cricket?

**Difficulty : Moderate**

**Average Time : 65 Seconds**

**Options :**

1. Harmanpreet Kaur
2. Poonam Raut
3. Mithali Raj
4. Smriti Mandhana

**Solution :**

The correct answer is **option 3** i.e. **Mithali Raj**.

- Mithali Raj on June 7, 2018 became the first Indian cricketer to score 2,000 runs in T20 Internationals.
- Mithali became the seventh woman cricketer and the only Indian to achieve the T20I feat.

**Question 9 :**

Which of the following statements is true?

**Difficulty : Moderate**

**Average Time : 51 Seconds**

### Options :

1. Carbon dioxide diffuses from lungs into blood and oxygen diffuses from blood into lungs.
2. Carbon monoxide diffuses from lungs into blood and oxygen diffuses from blood into lungs.
3. Oxygen diffuses from lungs into blood and carbon dioxide diffuses from blood into lungs.
4. Oxygen diffuses from lungs into blood and carbon monoxide diffuses from blood into lungs.

### Solution :

The correct answer is **option 3** i.e. **Oxygen diffuses from lungs into blood and carbon dioxide diffuses from blood into lungs.**

- The main function of the lungs is the process of gas exchange called respiration (or breathing).
- In respiration, oxygen from incoming air enters the blood, and carbon dioxide, a waste gas from the metabolism, leaves the blood.
- The lungs' main role is to bring in air from the atmosphere and pass oxygen into the bloodstream.
- From there, it circulates to the rest of the body.

### Question 10 :

Find the odd figure out from among the given figures.

Difficulty : Moderate

Average Time : 77 Seconds

### Options :

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

### Solution :

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

Understanding	Application
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<p>In the given figure B: Sides at the end are facing upward.</p> <p>While in other figures: Sides at the end are facing downward.</p>	<p>Hence, figure B is the odd figure out from among.</p>
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**Question 11 :**

Which of the following Venn diagrams correctly represents the relationship between the following classes? A) Electron B) Proton C) Atom

**Difficulty : Moderate**

**Average Time : 50 Seconds**

**Options :**

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

**Solution :**

Correct Answer is option 2

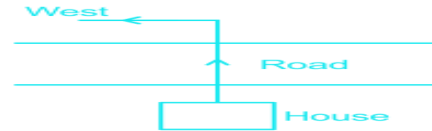
Understanding	Application
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- A) Electron
- B) Proton
- C) Atom

Electron and proton are types of Atom.

Hence, correct representation:



**Question 12 :**

If 350 marbles are shared between Sita and Savita in the ratio 5 : 9, Savita will get ..... marbles.

Difficulty : Moderate

Average Time : 126 Seconds

**Options :**

- 1. 200
- 2. 250
- 3. 225
- 4. 125

**Solution :**

Correct Answer is option 3 i.e. 225

Understanding	Application	Calculation
Ratio in which Sita and Savita gets the marbles = 5 : 9 Total marbles = 350	So, Marbles received by Savita = $350 \times 9 / (5+9)$ = 225	$350 \times 9 / (5+9)$ $350 \times 9 / 14$ $25 \times 9$ 225

**Question 13 :**

The value of  $\{45 + 7 \times 23 (247 \div 13) 11\} \div 2$  is:

Difficulty : Moderate

Average Time : 143 Seconds

**Options :**

43

2. -47

3. 86

4. -14

**Solution :**Correct Answer is **option 1** i.e. **43**

Application

$$(45 + 7 \times 23 (247 \div 13) 11) \div 2$$

$$(45 + 161 19 11) \div 2$$

$$86 \div 2$$

43

**Question 14 :**

Read the given statement(s) and conclusion carefully and select which of the options is possible. Statement: 1. Nitrogen is a gas. 2. This chamber has gas. Conclusion: This chamber contains nitrogen gas.

**Difficulty :** Moderate**Average Time :** 88 Seconds**Options :**

1. Definitely false

2. False

3. True

4. Probably true or false

**Solution :**

The correct answer is option 4 i.e. Probably true or false.

Understanding

Application

**Statement:**

1. Nitrogen is a gas.
2. This chamber has gas.

**Conclusion:**

This chamber contains nitrogen gas.  
It can't be said with certainty that the chamber contains nitrogen only.  
Hence, conclusion is Probably true or false.

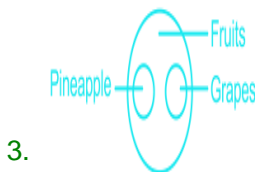
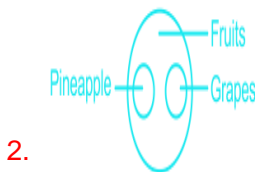
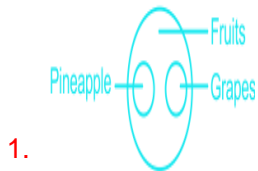
**Question 15 :**

Select the figure that is different from the other three.

**Difficulty : Moderate**

**Average Time : 73 Seconds**

**Options :**



**Solution :**

The correct answer is option 3

Application

Angle formed by all the three hands (hour-minute, minute-second, second - hour) in option 1, 2 and 4 is 120 degree but in option 3 one of the angles is 90 degree.

We can observe that figure in option 3 is different from the rest.

**Question 16 :**

Solve the below equation.

Difficulty : Moderate

Average Time : 78 Seconds

**Options :**

1.  $9/4$
2.  $6/5$
3.  $21/4$
4.  $21/5$

**Solution :**

Correct Answer is option 2 i.e.  $6/5$

**Application**

$$\frac{1+2}{\left\{1+\frac{2}{1+\frac{1}{3}}\right\}}$$
$$\Rightarrow \frac{3}{\left\{1+\frac{2}{\frac{4}{3}}\right\}}$$
$$\Rightarrow \frac{3}{\left\{1+\frac{3}{2}\right\}}$$
$$\Rightarrow \frac{3}{\frac{5}{2}} = 6/5$$

**Question 17 :**

Select the option that is related to the third term in the same way as the second term is related to the first term: Deep : Shallow : : Best : .....

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Better
2. Good
3. Worst
4. Meagre

Solution :

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

Understanding	Application
Deep : Shallow Deep and Shallow are opposite to each other.	In the same way, Best and worst are opposite to each other. Hence, <b>Worst</b> is the right answer.

Question 18 :

The inner and outer circumference of a circular ring is 22 cm and 44 cm, respectively. What is the thickness of the ring?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 5.5 cm
2. 2.5 cm
3. 3.5 cm
4. 1.5 cm

Solution :

Correct Answer is **option 3** i.e. **3.5 cm**

Understanding	Application	Calculation
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Suppose inner and outer radius are $r$ and $R$ respectively; Inner circumference of the ring = 22 cm	So, $2r = 22$ $r = 3.5$ cm	$2r = 22$ $r = 11/(22/7)$ $r = 7/2$ $r = 3.5$
Outer circumference of the ring = 44 cm	So, $2R = 44$ $r = 7$ cm	$2r = 44$ $r = 22/(22/7)$ $r = 7$
	So, Thickness of the ring = 3.5 cm	$7 - 3.5 = 3.5$

**Question 19 :**

What happens when dilute hydrochloric acid is added to iron filings?

Difficulty : Moderate

Average Time : 242 Seconds

**Options :**

1. Only chloride are produced
2. Hydrogen gas and iron chloride are produced
3. No reaction take place
4. Only hydrogen gas is produced D

**Solution :**

The correct answer is **option 2** i.e. **Hydrogen gas and iron chloride are produced.**

When solid iron filings are added to dilute aqueous Hydrochloric acid, Iron chloride or ferrous chloride is formed with the liberation of Hydrogen gas.



**Question 20 :**

In the context of Indian economy, which of the following is a subject under the primary sector?

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

1. Health
2. Banking
3. Education
4. Agriculture

**Solution :**

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

- Agriculture, Mining, Fishing, Forestry, Dairy etc. are some examples of primary sector.
- It is called so because it forms the base for all other products.
- Since most of the natural products we get are from agriculture, dairy, forestry, fishing, it is also called Agriculture and allied sector.
- The three sectors constituting an economy are the Agricultural or Primary sector, the Industry or Secondary sector and the Services or Tertiary sector.
- Primary sector contributes 17% of Indian GDP, secondary sector contributes 29.6 % of the Indian GDP and Services Sector contributes 54.3% of the Indian GDP.

**Question 21 :**

The supplement of an angle is  $15^\circ$  more than three times its complement. The measure of the angle is:

**Difficulty : Moderate****Average Time : 69 Seconds****Options :**

1.  $72.5^\circ$
2.  $52.5^\circ$
3.  $57.5^\circ$
4.  $65^\circ$

**Solution :**

Correct Answer is option 2 i.e.  $52.5^\circ$

Understanding	Application
Sum of supplementary angles = 180 Sum of complementary angles = 90	Suppose, Angle = $x$ Supplement angle = $(180 - x)$ Complement angle = $(90 - x)$
The supplement of an angle is $15^\circ$ more than three times its complement	So, $(180 - x) = 3(90 - x) + 15$ $180 - x = 270 - 3x + 15$ $2x = 105$ $x = 52.5$ Hence, the angle = $52.5^\circ$

**Question 22 :**

Identify the Venn diagram that best represents the following classes: Grapes, Pineapples, Fruits:

Difficulty : Moderate

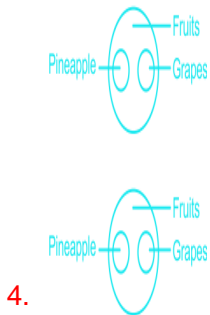
Average Time : 167 Seconds

**Options :**



3.





**Solution :**



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

### Understanding

Grapes and Pineapples are types of Fruits.

Hence, correct representation:



### Question 23 :

The aim of Setu Bharatam Programme of Government of India is:

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**

1. To build bridges on national highways
2. To build bridges that connect coastal areas
3. To build bridges in rural areas
4. To build bridges across rivers and seas for transportation of goods

**Solution :**

The correct answer is **option 1** i.e. **To build bridges on national highways.**

Setu Bharatam Programme:	<ul style="list-style-type: none"><li>• Setu Bharatam was launched by Prime Minister Narendra Modi on 4 March 2016</li><li>• Aimed to make all national highways free of railway crossings by 2019.</li><li>• Under the project, as many as 208 rail over and under bridges (ROBs/RUBs) would be constructed at unmanned railway crossings on national highways.</li></ul>
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**Question 24 :**

Pipe A can fill an empty cistern in 15 hours while Pipe B takes 25 hours to fill it. Initially Pipe A is left open for some time and then closed and Pipe B is switched on immediately. In all the cistern takes 21 hours to be filled. How long was Pipe A open?

Difficulty : Moderate

Average Time : 68 Seconds

**Options :**

1. 3 hours
2. 7.5 hours
3. 6 hours
4. 9 hours

**Solution :**

Correct Answer is **option 3** i.e. **6 hours**

Understanding	Application	Calculation
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Pipe A can fill an empty cistern in 15 hours while Pipe B takes 25 hours to fill it.	Suppose, Capacity of cistern = 75 units	LCM of 15 and 25 = 75
Efficiencies = Work/Time	Efficiency of Pipe A = 5	$75/15 = 5$
Efficiencies = Work/Time	Efficiency of Pipe B = 3	$75/25 = 3$
Total time = 21 hours Suppose A was open for x hours. So, B is switched on for (21 - x) hours	So, $5x + 3(21 - x) = 75$ $x = 6$ Hence, A was open for 6 hours.	$5x + 3(21 - x) = 75$ $5x + 63 - 3x = 75$ $2x = 12$ $x = 6$

**Question 25 :**

Periyar National Park is in .....

Difficulty : Moderate

Average Time : 281 Seconds

**Options :**

1. Tamil Nadu
2. Goa
3. Karnataka
4. Kerala

**Solution :**

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

Periyar National Park:	<ul style="list-style-type: none"><li>• Periyar National Park, also known as Periyar Tiger Reserve, is in the mountainous Western Ghats of Kerala, southern India.</li><li>• This wildlife sanctuary is home to tigers and a significant elephant population, as well as rare lion-tailed macaques, sambar deer, leopards and Indian bison.</li><li>• In the park's north, Periyar Lake is popular for boat rides.</li></ul>
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### Question 26 :

The organs that have different basic structure (or different basic design) but have similar appearance and perform 5 similar functions are called:

Difficulty : Moderate

Average Time : 67 Seconds

### Options :

1. biogenetic law
2. analogous organs
3. homologous organs
4. fossils

### Solution :

The correct answer is **option 2** i.e. **analogous organs**.

Analogous organs:	<ul style="list-style-type: none"><li>• Analogous organs are the organs of different animals which have different basic structure but perform same function.</li><li>• For example, the wing of a bird and the wing of a butterfly have different structures but they perform similar function so they are analogous organs.</li><li>• Those organs which have the same basic structure (or same basic design) but different functions are called homologous organs.</li></ul>
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### Question 27 :

Sound is produced by .....



Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. swinging bodies
2. moving objects
3. talking people
4. vibrating objects

Solution :

The correct answer is **option 4** i.e. **vibrating objects**.

Sound is produced when something vibrates. The vibrating body causes the medium (water, air, etc.) around it to vibrate. Vibrations in air are called traveling longitudinal waves, which we can hear.

Comprehension :

Read the following table carefully and answer the question given below: Classification of 100 students based on the marks obtained by them in Mathematics and Science in an Engineering Entrance Examination Mark out of 50 40 and above 30 and above 20 and above 10 and above 0 and above Subject Maths 23 26 70 90 100 Science 15 36 75 95 100 (Aggregate) Average 19 31 80 93 100 The number of students scoring less than 60% marks aggregate is:

Question 28 :

The number of students scoring less than 60% marks aggregate is:

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 27
2. 65
3. 69
4. 50

Solution :

Correct Answer is option 3 i.e. 69

Understanding	Application
Less than 60% marks aggregate means less than 30 ( $= 50 \times 0.6$ ).	31 students obtained 30 and above marks aggregate. Hence, Number of students scoring less than 60% marks aggregate $= 100 - 31 = 69$

**Question 29 :**

If Raj drives faster by 10 km/h, he reaches his village 90 minutes early. If he drives slower by 10 km/h, he reaches the village 150 minutes late. Find the distance he travels.

Difficulty : Moderate

Average Time : 106 Seconds

**Options :**

1. 500 km
2. 400 km
3. 600 km
4. 300 km

**Solution :**

Correct Answer is option 4 i.e. 300 km

Understanding	Application	Calculation
Suppose Original speed = x Distance = d	So, Original time = $d/x$	

<p>If Raj drives faster by 10 km/h, he reaches his village 90 minutes early.</p> <p>If he drives slower by 10 km/h, he reaches the village 150 minutes late</p>	<p>So,</p> $\begin{aligned} [x(x + 10)/10] \times 90/60 &= \\ [x(x - 10)/10] \times 150/60 & \\ x &= 40 \text{ km/hr} \end{aligned}$	$\begin{aligned} [x(x + 10)/10] \times 90/60 &= [x(x - 10)/10] \times 150/60 \\ 3(x + 10) &= 5(x - 10) \\ 2x &= 80 \\ x &= 40 \end{aligned}$
	<p>Hence,</p> <p>Distance = <math>[x(x + 10)/10] \times 90/60</math></p> <p>= 300 km</p>	$\begin{aligned} [x(x + 10)/10] \times 90/60 \\ [40 \times 50]/100 \times 3/2 \\ 300 \end{aligned}$

**Question 30 :**

Rs. 775, invested for 6 years gives an interest of Rs. 372. The rate of simple interest per annum is:

Difficulty : Moderate

Average Time : 250 Seconds

**Options :**

1. 8%
2. 7%
3. 9%
4. 7.5 %

**Solution :**

Correct Answer is option 1 i.e. 8%

Understanding	Application	Calculation
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Given: Principal = Rs. 775 T = 6 years SI = Rs. 372	We know that: SI = (PRT)/100 So, R = 8%	$372 = (775 \times R \times 6)/100$ $R = 37200/4650$ $R = 8$
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**Question 31 :**

An element having atomic number 17 will resemble which of the following elements having Atomic number as given below?

Difficulty : Moderate

Average Time : 149 Seconds

**Options :**

1. 33
2. 34
3. 18
4. 35

**Solution :**

The correct answer is **option 4** i.e. **35**.

The element having atomic number 17 is configured as (2, 8, 7)

And

The element having atomic number 35 is configured as (2, 8, 18, 7)

That means both have 7 electrons in their outer shell.

Hence, they will have similar properties.

**Question 32 :**

Consider the following question and decide which of the statements is sufficient to answer the question. Question: Find the seventh letter in the series (Arithmetic progression) Statements: I. if the first letter in the series is 2. II. if the common difference in A.P is 3.

Difficulty : Moderate

Average Time : 61 Seconds



**Options :**

1. Only statement I is sufficient
2. Both statements I and II are sufficient
3. Either statement I or II is sufficient
4. Only statement II is sufficient

**Solution :**

Correct Answer is **option 2** i.e. **Both statements I and II are sufficient.**

Understanding	Application
<p><b>Question:</b></p> <p>Find the seventh letter in the series (Arithmetic progression)</p> <p>We know that:</p> $N^{\text{th}} \text{ term of AP} = a + (N - 1)d$ <p>Where <math>a = 1^{\text{st}}</math> term and <math>d =</math> common difference</p>	<p><b>Statements:</b></p> <p>I. If the first letter in the series is 2.</p> <p>II. If the common difference in A.P is 3.</p> <p>So,</p> <p><math>a = 2, d = 3</math> and <math>N = 7</math></p> <p>we can find the 7<sup>th</sup> term.</p> <p>Hence, Both statements I and II are sufficient to get the answer.</p>

**Question 33 :**

The atmospheric pressure at sea level is ..... atm.

**Difficulty :** Moderate**Average Time :** 159 Seconds**Options :**

1. 0.001
2. 1
3. 0
4. 0.1

**Solution :**

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

- The standard constant value used for atmospheric pressure at sea level is 1 atm (standard atmosphere) which equals 101325 pascals in SI units, and is equivalent to 29.9213 inches of mercury.
- Atmospheric pressure is also often stated as pounds/square inch (psi). The atmospheric pressure at sea level is 14.7 psi.

**Question 34 :**

Find the LCM of 63 and 140.

**Difficulty : Moderate**

**Average Time : 51 Seconds**

**Options :**

1. 126
2. 63
3. 14
4. 1260

**Solution :**

Correct Answer is option 4 i.e. 1260

Understanding	Application
LCM of 63 and 140	$63 = 3 \times 3 \times 7$ $140 = 2 \times 2 \times 5 \times 7$ Hence, $LCM = 2 \times 2 \times 3 \times 3 \times 5 \times 7$ $= 1260$

**Question 35 :**

A 8 resistance wire is doubled on it. Calculate the new resistance of the wire.

**Difficulty : Moderate**

**Average Time : 104 Seconds**

**Options :**

1. 1.25
2. 1.00
3. 1.5
4. 2.00

**Solution :**

Correct Answer is option 4 i.e. 2.00

When wire is doubled:

- Length of the wire gets half and Area of the wire gets double.

Now we know that:

$$R = \rho l/A$$

When  $l$  becomes  $l/2$  and  $A$  gets  $2A$ :

$$R' = \rho l/4A = R/4$$

Hence, new resistance =  $8/4 = 2.00$

**Question 36 :**

Read the given statement and choose which argument is strong. Statement: Playing outdoor games is better than being on a computer or playing mobile games. Argument: I: Yes, playing outdoor games keeps children physically and mentally fit. II: No, computer or mobile games are more entertaining than outdoor games.

Difficulty : Moderate

Average Time : 101 Seconds

**Options :**

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

**Solution :**

The correct answer is option 4 i.e. Only argument I is strong.

Understanding	Application
<b>Statement:</b> Playing outdoor games is better than being on a computer or playing mobile games.	<b>Argument:</b> I: Yes, playing outdoor games keeps children physically and mentally fit. (It is a strong argument as it tells the benefits of outdoor games)  II: No, computer or mobile games are more entertaining than outdoor games. (It is not a strong argument as outdoor games are equally entertaining if we play with interest)  Hence, Only argument I is strong.

**Question 37 :**

The reproductive parts of angiosperms are located in the:

**Difficulty : Moderate****Average Time : 91 Seconds****Options :**

1. leaves
2. flowers
3. roots
4. stems

**Solution :**

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

- The reproductive parts of an angiosperm are located in the flowers.
- A flower of an angiosperm usually consists of four whorls namely calyx, corolla, androecium and gynoecium.

**Question 38 :**

'A Billion Dreams' is a 2017 Indian docudrama-biographical film based on the life of which Indian cricketer?

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



### Options :

1. M. S. Dhoni
2. Virat Kohli
3. Sachin Tendulkar
4. Sunil Gavaskar

### Solution :

The correct answer is **option 3** i.e. **Sachin Tendulkar**.

- A Billion Dreams is a 2017 Indian biographical film written and directed by James Erskine.
- The film is a documentary on the life of Indian cricketer Sachin Tendulkar.
- It captures Tendulkar's cricket and personal life in substantial detail, as well as reveals few aspects of his life which have never been heard of or seen before.

### Question 39 :

Select the answer figure that will come next in the given problem figure series.

Difficulty : Moderate

Average Time : 59 Seconds

### Options :

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

### Solution :

Correct Answer is **option 2** i.e. **D**

Understanding

Application

In the given sequence, figure is moving by 90 degree clockwise in each step.

Following the sequence, the next figure will be as shown in answer figure D.

**Question 40 :**

The distance between two places A and B is 245 km. Two cars, one from A and the other from B, start at the same time, travelling towards each other. If one car travels at a speed of 40 km/h and the other at 30 km/h , after how many hours will they meet?

Difficulty : Moderate

Average Time : 85 Seconds

**Options :**

1. 11/4 hours
2. 3 hours
3. 3.5 hours
4. 2 hours

**Solution :**

Correct Answer is option 3 i.e. 3.5 hours

Understanding	Application	Calculation
Speeds of cars = 40 and 30 km/hr	Since the cars are travelling towards each other: Relative speed = 70 km/hr	$40 + 30 = 70$
Distance = 245 km	Hence, Time after they will meet = 3.5 hours	$245/70 = 3.5$

**Question 41 :**

Sultanpur National Park is in .....

Difficulty : Moderate

Average Time : 153 Seconds

**Options :**

Delhi

2. Haryana

3. Rajasthan

4. Punjab

**Solution :**

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

Sultanpur National Park:

- Sultanpur National Park is located at Sultanpur village on Gurugram-Jhajjar highway.
- This bird sanctuary, ideal for birding and bird lookers, is best visited in winters when a large number of migratory birds come here.

**Question 42 :**

When two equal forces are acting on a body and opposite in direction, the net force acting on a body becomes .....

Difficulty : Moderate

Average Time : 60 Seconds

**Options :**

1. two times
2. three times
3. zero
4. four times

**Solution :**

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

- When more than one force acts on an object, the forces combine to form a net force. The combination of all the forces acting on an object is the net force.
- If two forces of equal strength act on an object in opposite directions, the forces will cancel, resulting in a net force of zero and no movement.

**Question 43 :**

The square roots of how many factors of 2250 will be natural numbers?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 15
2. 4
3. 5
4. 6

Solution :

Correct Answer is option 2 i.e. 4.

Understanding	Application	Calculation
First find the factors of 2250.	Factors of 2250: 1, 2, 3, 5, 6, 9, 10, 15, 18, 25, 30, 45, 50, 75, 90, 125, 150, 225, 250, 375, 450, 750, 1125, 2250	$2250 = 2 \times 3^2 \times 5^3$
	Hence, Square roots of 1, 9, 25 and 225 will be natural numbers.	

Question 44 :

Which of the following sets are the best insulators?

Difficulty : Moderate

Average Time : 141 Seconds

Options :

1. Rubber, glass, plastics, ebonite, cotton, copper
2. Bakelite, dry air, paper, ebonite, aluminium
3. Plastics, ebonite, paper, cotton, Bakelite, dry air, rubber
4. Silver, copper, gold, iron

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**Solution :**

The correct answer is **option 3** i.e. **Plastics, ebonite, paper, cotton, Bakelite, dry air, rubber.**

What are Insulators?	<ul style="list-style-type: none"><li>• Insulators are materials that inhibit the flow of electrical current.</li><li>• The opposite of conductors, which allow electric particles to flow freely, insulators are implemented in household items and electrical circuits as protection.</li><li>• Thermal insulation is similar, but it constricts the flow of heat rather than electricity.</li><li>• Plastics, ebonite, paper, cotton, Bakelite, dry air, rubber are best insulators.</li><li>• Copper, Aluminium, Silver, Gold, iron all are conductors.</li></ul>
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**Question 45 :**

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

Difficulty : Moderate

Average Time : 74 Seconds

**Options :**

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

**Solution :**

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

<ul style="list-style-type: none"><li>• The first law of thermodynamics, also known as Law of Conservation of Energy, states that energy can neither be created nor destroyed; energy can only be transferred or changed from one form to another.</li><li>• Example: Mechanical energy produced by shaft of generator is converted to electrical energy.</li></ul>
---

**Question 46 :**

..... is a true marine fish

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Jelly fish
2. Silver fish
3. Dog fish
4. Star fish

Solution :

The correct answer is **option 3** i.e. **Dog fish**

Dog fish:

- Dogfish are a number of species of sharks in the Squalidae family.
- They have venomous spines, something that no other shark species have.
- While there are quite a few different species of this shark, the most well-known species is the spiny dogfish.

Question 47 :

In which country was the Sano Cricket Curry Festival organised by ICC in 2018?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Australia
2. Japan
3. Britain
4. Sri Lanka

Solution :

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

Sano Cricket Curry Festival:

- Sano Cricket Curry Festival was organised to try and promote cricket in the Land of the Rising Sun JAPAN.
- The idea is to try and popularise the game in Japan, which has been an ICC Associate Nation since 2005.
- It was a carnival atmosphere, with community cricket matches at the Sano International Cricket Ground.

### Question 48 :

Identify the equation of the line with slope = -4 and y-intercept = 2.

Difficulty : Moderate

Average Time : 64 Seconds

### Options :

1.  $2x + y/2 = 1$
2.  $2x + y = 1$
3.  $2x + y/3 = 1$
4.  $2x + y/4 = 1$

### Solution :

Correct Answer is option 1 i.e.  $2x + y/2 = 1$

Understanding

Application



Given:  
Slope = -4  
Y-intercept = 2

We know the format of  
equation with slope  $m$  and  $y$ -  
intercept ' $c$ ':

$$y = mx + c$$

Putting the values of ' $m$ ' and  
' $c$ ':

$$y = -4x + 2$$

or

$$2x + y/2 = 1$$

**Question 49 :**

Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide 2 which of the conclusions logically follows from the statements. Statement: • Some spoons are glasses. • All the plates are glasses. Conclusions: 1. Some glasses are plates. 2. Some glasses are spoons.

**Difficulty : Moderate****Average Time : 141 Seconds****Options :**

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

**Solution :**

Correct Answer is option 2 i.e. Both conclusions 1 and 2 follow.

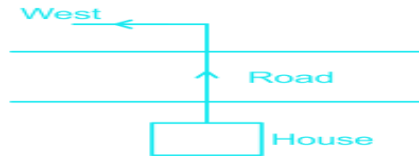
Understanding

Application

### Statement:

Some spoons are glasses.

All the plates are glasses.



### Conclusions:

1. Some glasses are plates: True (Clearly shown in the figure)

2. Some glasses are spoons: True (Clearly shown in the figure)

Hence, Both conclusions 1 and 2 follow.

### Question 50 :

Find the person who does NOT belong to the group.

Difficulty : Moderate

Average Time : 81 Seconds

### Options :

1. Sunita Williams
2. Kalpana Chawla
3. Mahendra Singh Dhoni
4. Rakesh Sharma

### Solution :

The correct answer is **option 3** i.e. **Mahendra Singh Dhoni**.

#### Application

Sunita Williams, Kalpana Chawla and Rakesh Sharma are astronauts.

While Mahendra Singh Dhoni is a cricketer.

Hence, Mahendra Singh Dhoni is the odd one.

### Question 51 :

The 4th and 5th periods contain:



Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 8 elements
2. 18 elements
3. 11 elements
4. 9 elements

Solution :

The correct answer is **option 2** i.e. **18 elements**.

- A period is a horizontal row of the periodic table.
- There are seven periods in the periodic table.
- Period 1 has only two elements (hydrogen and helium), while periods 2 and 3 have 8 elements.
- Periods 4 and 5 have 18 elements.
- Periods 6 and 7 have 32 elements because the two bottom rows that are separated from the rest of the table belong to those periods. They are pulled out in order to make the table itself fit more easily onto a single page.

Question 52 :

Which among the following players was awarded Padma Shri in 2017 for his/her contribution to Indian sports?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Sekhar Naik
2. Devendra Jhajharia
3. Brij Bhushan Mohanty
4. Bhupendra Singh

Solution :

The correct answer is **option 1** i.e. **Sekhar Naik**.

Who is Shekhar Naik?	<ul style="list-style-type: none"> <li>• Shekhar Naik (born 7 April 1986) is an Indian blind cricketer and a former captain of the India national blind cricket team.</li> <li>• In 2017, the Government of India awarded Naik with Padma Shri, the country's fourth highest civilian honour.</li> <li>• He is a Right-handed batsman and also a wicket-keeper.</li> </ul>
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**Question 53 :**

Select the best option to fill in the blank: STAR : 1920118, MARS : 1311819, PARK : .....

Difficulty : Moderate

Average Time : 64 Seconds

**Options :**

1. 1811611
2. 1712812
3. 1618111
4. 1611811

**Solution :**

The correct answer is **option 4 i.e. 1611811**

Concept	Application
Each letter is represented by its numerical position value.	S(19) T(20) A(1) R(18) M(13) A(1) R(18) S(19) Similarly; PARK: P(16) A(1) R(18) K(11). Hence, 1611811 is the answer.

**Question 54 :**

In 1781, Warren Hastings, the first Governor-General of India set up a Madarssa in ..... for the study and teaching of Muslim law.

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. Bihar
2. Bombay
3. Calcutta
4. Delhi

Solution :

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

- Calcutta Madrasa, The (later Calcutta Aliya Madrasa) was the earliest of the state-managed educational institutions under the British rule in India. Founded by the Governor General Warren Hastings, in October 1780.
- Bengal Government took it over in April 1782.
- Originally situated at Baithakkhana near Sealdah in Calcutta, it was shifted to its present site at Wellesley Square in 1827.
- Its first head preceptor was Mulla Majduddin, an erudite in Islamic learning.

Question 55 :

Rani Lakshmi Bai died in the year ..... while fighting the British.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 1857
2. 1859
3. 1856
4. 1858

Solution :

The correct answer is **option 4** i.e. **1858**



- On June 18th 1858, Rani Lakshmibai of Jhansi, one of the most important figures of India's First War of Independence, died while fighting against the British in Gwalior.
- After a fierce war, when the British army entered Jhansi, Rani Lakshmibai, tied her son Damodar Rao to her back and fought bravely using two swords in both her hands.
- November 19, the birth anniversary of Rani Lakshmibai, is celebrated as Martyr's Day in Jhansi to honor the lives lost in the Rebellion of 1857.

**Question 56 :**

Find the next figure for the given series:

Difficulty : Moderate

Average Time : 62 Seconds

**Options :**

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

**Solution :**The correct answer is **option 3** i.e. **C**.

Understanding	Application
3 lines are drawn inside the shape (Square) of 1st figure to get 2nd figure.	In the same way, 3 lines will be drawn inside the shape (Triangle) of 3rd figure to get 4th figure.  Hence, answer figure C will be the next figure.

**Question 57 :**

A stone is tied to a spring balance. Under which of the following conditions the reading on spring balance will show the



least weight?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. When the stone is partially submerged in the water in a beaker.
2. When the stone is completely submerged in the water in a beaker.
3. When the stone is on the surface of water taken in a beaker.
4. When the stone is suspended in air.

Solution :

The correct answer is **option 2** i.e. **When the stone is completely submerged in the water in a beaker.**

- When objects are placed in water, their mass does not change. They seem to feel lighter, though, because of buoyancy.
- Archimedes's principle states that the force pushing on an object under water, is equal to the mass of the water it has pushed out of the way.
- Hence, When the stone is completely submerged in the water in a beaker, the reading on spring balance will show the least weight.

**Question 58 :**

You are given a question and two statements. Identify which of the statements is are sufficient to answer the question.

Question: Find the value of n. Statements: I) if  $x^2 - nx + 1 = 0$  II) If the equation has solution as 'x = 1'

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. Only II is sufficient
2. Both I and II are sufficient
3. Either I or II is sufficient
4. Only I is sufficient

Solution :

Correct Answer is option 2 i.e. Both I and II are sufficient



Application

**Statement I:**

$$x^2 - nx + 1 = 0$$

**Statement II:**

The equation has solution as 'x = 1'

Putting x = 1 in the equation:

$$1^2 - n + 1 = 0$$

$$n = 2$$

Hence, Both statements I and II are sufficient to answer the question.

**Question 59 :**

Fibers are absent in:

**Difficulty : Moderate**

**Average Time : 112 Seconds**

**Options :**

1. Liver
2. Blood
3. Kidney
4. Heart

**Solution :**

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



- Connective tissues are made up of a matrix consisting of living cells and a non-living substance, called the ground substance.
- The principal cell of connective tissues is the fibroblast.
- This cell makes the fibers found in nearly all of the connective tissues.
- Collagen fibers provide strength to the tissue, preventing it from being torn or separated from the surrounding tissues.

**Question 60 :**

Select the option that groups together the following figures logically.

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

1. 1, 4; 2, 5; 3, 6
2. 1, 5; 2, 6; 3, 4
3. 1, 6; 2, 3; 4, 5
4. 1, 2; 3, 4; 5, 6

**Solution :**

The correct answer is option 3 i.e. 1, 6; 2, 3; 4, 5

Understanding

In figure 1 & 6, both shapes are same and both intersect each other hence form a group.

In figure 2 & 3, one shape is circle which covers one of the vertices of another shape hence form a group.

In figure 4 & 5, one shape is completely inside another hence form a group.

**Question 61 :**

In how many wars will an amount be doubled at 28.75% annual rate of interest?

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

3.00

2. 3.90

3. 3.47

4. 6.00

**Solution :**

Correct Answer is option 3 i.e. 3.47

Understanding	Application	Calculation
Since amount is being double, interest will be equal to principal.	So, $SI = P, R = 28.75$ $P = (P \times 28.75 \times T)/100$ $T = 3.47$ years	$P = (P \times 28.75 \times T)/100$ $T = 100/28.75$ $T = 3.47$

**Question 62 :**

Three or more lines are ..... if and only if all of them pass through the same point.

Difficulty : Moderate

Average Time : 134 Seconds

**Options :**

1. concurrent
2. parallel
3. perpendicular
4. collinear

**Solution :**

Correct Answer is option 1 i.e. concurrent

Application

A set of lines or curves are said to be **concurrent** if they all intersect at the same point.

If the angle between two lines is 90 degree, they are called **perpendicular** to each other.

Two **parallel** lines never intersect each other.

If all the points are on the same line, they are called **collinear**.

### Question 63 :

Read the given question and decide which of the following statements is/are sufficient to answer the question. Question: Which word represents 'give' in the code language? Statements: 1. 'Give me some tea' is written as 'De min to te'. 2. 'Please give' is written as 'Plea de'.

Difficulty : Moderate

Average Time : 100 Seconds

### Options :

1. Statements 1 and 2 together are sufficient.
2. Statement 1 alone is sufficient
3. Statements 1 and 2 together are insufficient.
4. Statement 2 alone is sufficient.

### Solution :

The correct answer is option 1 i.e. Statements 1 and 2 together are sufficient.

Understanding	Application
---------------	-------------



Question:

Which word represents 'give' in the code language?

Statements:

1. 'Give me some tea' is written as 'De min to te'.

2. 'Please give' is written as 'Plea de'.

In both statements, 'Give' is the only common word and 'de' is common code.

Hence, code for 'give' is 'de'

Hence, Statements 1 and 2 together are sufficient.

**Question 64 :**

Deen Dayal Upadhyaya Antyodaya Yojana is also known as:

Difficulty : Moderate

Average Time : 109 Seconds

Options :

1. National Urban Health Mission
2. National Urban Livelihood Mission
3. National Rural Health Mission
4. National Rural Livelihood Mission

**Solution :**

The correct answer is **option 2** i.e. **National Urban Livelihood Mission**.

Deen Dayal Upadhyaya Antyodaya Yojana:	<ul style="list-style-type: none"><li>• Deen Dayal Antyodaya Yojana or DAY is a Government of India scheme for helping the poor by providing skill training.</li><li>• The Government of India has provisioned ₹1,500 crore for the scheme.</li><li>• The objective of the scheme is to train 0.5 million people in urban areas per annum from 2016.</li><li>• The initial scheme Swarnajayanti Gram Swarozgar Yojana (SGSY) was launched in 1999. It was renamed as National Rural Livelihood Mission in 2011. Finally they were merged into DDU-AY.</li></ul>
--	---

**Question 65 :**

The forces between two bodies are always:

**Difficulty : Moderate****Average Time : 72 Seconds****Options :**

1. unequal and in the opposite direction
2. equal and in the opposite direction
3. equal and in the same direction
4. isolated forces

**Solution :**

The correct answer is **option 2** i.e. **equal and in the opposite direction**.

- According to Newton's 3<sup>rd</sup> law of motion, For every action, there is an equal and opposite reaction.
- So, The forces between two bodies are always equal and in the opposite direction.
- Forces always come in pairs - equal and opposite action-reaction force pairs.

**Question 66 :**

Which of the following can undergo sublimation?



Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Ammonium chloride
2. Ammonium chlorate
3. Ammonium sulphate
4. Ammonium phosphate

Solution :

The correct answer is **option 1** i.e. **Ammonium chloride**.

What is sublimation?

- Sublimation is the transition of a substance directly from the solid to the gas state, without passing through the liquid state.
- This occurs because the substance absorbs energy so quickly from the surroundings that melting never occurs.
- Examples: "Dry ice" or solid carbon dioxide sublimates.
- Ammonium chloride when undergoes sublimation, the gas doesn't contain molecules of ammonium chloride but molecules of ammonium and hydrogen chloride.

Question 67 :

Solve the following equation:  $11 \div 3 + 1/9 - 5 \times 6 (1 \times 1/6)$

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1.  $-1/9$
2.  $11/9$
3.  $11/8$
4.  $-11/9$

Solution :

Correct Answer is **option 4** i.e.  **$-11/9$**

Application

$$11 \div 3 + 1/9 - 5 \times 6 (1 \times 1/6)$$

$$11/3 + 1/9 - 30/6$$

$$11/3 + 1/9 - 5$$

$$(33 + 1 - 45)/9$$

$$-11/9$$

**Question 68 :**

Select the lateral mirror image of REACH from the given options.

Difficulty : Moderate


Average Time : 92 Seconds

**Options :**

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

**Solution :**

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

Understanding	Application
Mirror image: Observation	When we carefully look at the options, we can conclude that the figure B is the lateral mirror image of REACH. 

**Question 69 :**

A table costing Rs. 750 was sold at 4% loss. Find out the selling price of the table.



Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Rs. 720
2. Rs. 780
3. Rs. 730
4. Rs. 745

Solution :

Correct Answer is option 1 i.e. Rs. 720

Understanding	Application	Calculation
CP of the table = Rs. 750 Loss = 4%	So, $SP = CP [(100 - \text{Loss})/100]$ SP = Rs. 720	$SP = 750 \times [(100 - 4)/100]$ $SP = 750 \times 0.96$ SP = 720

Question 70 :

An ultrasonic sound wave has a frequency higher than:

Difficulty : Moderate

Average Time : 135 Seconds

Options :

1. 20 Hz
2. 20000 Hz
3. 200 Hz
4. 2000 Hz

Solution :

The correct answer is **option 2** i.e. **20000 Hz**.



Ultrasonic sound wave:

- The term "ultrasonic" applied to sound refers to anything above the frequencies of audible sound, and nominally includes anything over 20,000 Hz.
- Sounds in the range 20-100kHz are commonly used for communication and navigation by bats, dolphins, and some other species.
- Much higher frequencies, in the range 1-20 MHz, are used for medical ultrasound.

**Question 71 :**

1 joule / second = ?

**Difficulty : Moderate**

**Average Time : 63 Seconds**

**Options :**

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

**Solution :**

The correct answer is **option 3** i.e. **1 watt**.

- One Watt is defined as 1 Joule of energy per 1 second.
- The SI unit of power is the joule per second (J/sec) and it has a special name, the watt (W).
- Power is the rate of doing work or of transferring heat, i.e. the amount of energy transferred or converted per unit time.

**Question 72 :**

Who among the following conducts the Oath of Office for the President of India?

**Difficulty : Moderate**

**Average Time : 57 Seconds**

**Options :**

1. The Prime Minister of India
2. The Vice President of India

The Attorney General of India

4. The Chief Justice of India

**Solution :**

The correct answer is **option 4** i.e. **The Chief Justice of India.**

- Chief Justice of India, Supreme Court (or in his absence, the senior-most judge of the supreme court) conducts oath of secrecy and office to the elected President.
- Once President is elected it is he who conducts oath of others including Vice President, Next CJI and other constitutional posts.

**Question 73 :**

Which of the following statements is true?

**Difficulty : Moderate**

**Average Time : 59 Seconds**

**Options :**

1. The Mass and weight of a body change from place to place.
2. The Mass of a body remains same while the Weight changes from place to place.
3. The Mass of a body changes from place to place while the Weight remains the same.
4. The Mass and Weight of the body remain the same in different places.

**Solution :**

The correct answer is **option 2** i.e. **The Mass of a body remains same while the Weight changes from place to place.**

- Mass is constant because mass is quantity of matter present in an object and it does not changes with gravity.
- Weight of a body is force applied by earth to the body of mass  $m$  which is equal to  $mass \times acceleration$  due to gravity of the place.
- So weight depends on gravity and as gravity varies from place to place then weight also varies.

**Question 74 :**

Which one of the following promotes cell division?

**Difficulty : Moderate**

**Average Time : 76 Seconds**

### Options :

1. Auxin
2. Gibberellins
3. Cytokinins
4. Abscisic acid

### Solution :

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

What is Cytokinins?	<ul style="list-style-type: none"><li>• Cytokinins are plant hormones that cause increased cell division by stimulating the process of mitosis.</li><li>• They are made naturally by plants but have been synthesized by humans.</li><li>• Increased mitosis results in plant growth and the formation of shoots and buds, as well as the development of fruits and seeds.</li></ul>
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### Question 75 :

Which of the following statements is true for metals?

Difficulty : Moderate

Average Time : 51 Seconds

### Options :

1. Metals have 1 to 3 valence electrons in their outermost orbit.
2. Metals have 1 to 4 valence electrons in their outermost shell.
3. Metals have 8 valence electrons in their outermost shell.
4. Metals have 4 or more valence electrons in their outermost orbit.

**Solution :**

The correct answer is **option 2** i.e. **Metals have 1 to 4 valence electrons in their outermost shell.**

- A valence electron is an outer shell electron with an atom, and that can participate in the formation of a chemical bond if the outer shell is not closed.
- Number of valence electrons determines the chemical properties of an element.
- Elements whose atoms have the same number of valence electrons are grouped together in the Periodic Table.
- Metals have 1 to 4 valence electrons in their outermost shell.

**Question 76 :**

Name the scheme launched by the Indian Government that aims to reduce expenditure by patients on treatment of cancer and cardiovascular diseases to make health care affordable for needy.

Difficulty : Moderate

Average Time : 75 Seconds

**Options :**

1. MAARC (Medical Assistance At Reduced Cost)
2. PADMA (Proper and Due Medical Assistance)
3. AYUSH(Assuring Your Ultimate Security and Health)
4. AMRIT (Affordable Medicine and Reliable Implants for Treatment)

**Solution :**

The correct answer is **option 4** i.e. **AMRIT (Affordable Medicine and Reliable Implants for Treatment).**

- With the aim to reduce the expenditure incurred by patients on treatment of cancer and heart diseases, the Ministry for Health & Family Welfare, has launched the Affordable Medicines and Reliable Implants for Treatment (AMRIT) programme.
- As part of the programme, retail outlets will sell drugs for the cancer and heart diseases at highly discounted rates.
- The project has been floated in a tie-up with government-owned HLL Lifecare Ltd (HLL) which is deputed to establish and run the AMRIT chain of pharmacies across the country.

**Question 77 :**

Motion of a body with constant speed in a circular path is called:



Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. Uniform circular motion
2. Non-uniform circular motion
3. Circulatory motion
4. Oscillatory motion

Solution :

The correct answer is **option 1** i.e. **Uniform circular motion**.

- Motion of a body with constant speed in a circular path is called Uniform circular motion.
- As an object moves in a circle, it is constantly changing its direction. At all instances, the object is moving tangent to the circle.
- **Examples:** Motion of artificial satellites around the earth is an example of uniform circular motion. The gravitational force from the earth makes the satellites stay in the circular orbit around the earth. The motion of electrons around its nucleus. The motion of blades of the wind mills.

**Question 78 :**

The sides of parallelogram are 12 m and 17 m respectively. If one of the diagonals is 25 m long, the area of parallelogram is:

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1.  $160 \text{ m}^2$
2.  $180 \text{ m}^2$
3.  $150 \text{ m}^2$
4.  $190 \text{ m}^2$

Solution :

Correct Answer is option 2 i.e.  $180 \text{ m}^2$



Understanding	Application	Calculation
<p>Given:</p> <p>Sides = 17 and 12 m</p> <p>Diagonal = 25 m</p>	<p>So,</p> <p>AB = 17, BC = 12, AC = 25</p> <p>We need to find the area of triangle ABC.</p>	
<p>Area of triangle when all 3 sides are given:</p> $= [s(s - a)(s - b)(s - c)]$ <p>Where,</p> $s = (a + b + c)/2$	<p>Here,</p> $s = [12 + 17 + 25]/2 = 27$ <p>So,</p> <p>Area of triangle ABC</p> $= [27(27 - 17)(27 - 12)(27 - 25)]$ $= 90 \text{ m}^2$	$s = [12 + 17 + 25]/2$ $s = 54/2$ $s = 27$ $[27(27 - 17) (27 - 12) (27 - 25)]$ $[27 \times 10 \times 15 \times 2]$ <p>8100</p> <p>90</p>
<p>Area of parallelogram will be double the area of triangle ABC.</p>	<p>Hence,</p> <p>Area of parallelogram</p> $= 90 \times 2$ $= 180 \text{ m}^2$	

**Question 79 :**

Pipes A, B and C together can fill a tank in 4 hours. Pipes A and B together can fill the tank in 9 hours. If pipes A, B and C

are opened simultaneously, and after 3 hours, pipes A and B are closed, then how many hours will C alone require to fill the tank?

**Difficulty : Moderate**

**Average Time : 311 Seconds**

**Options :**

1. 2.25
2. 2
3. 1.5
4. 1.8

**Solution :**

Correct Answer is option 4 i.e. 1.8

Understanding	Application	Calculation
A, B and C together can fill a tank in 4 hours. A and B together can fill the tank in 9 hours.	Suppose, Capacity of tank = 36 units	LCM of 4 & 9 = 36
Efficiency = Work/Time	So, Efficiency of (A + B + C) = 9	$36/4 = 9$
Efficiency = Work/Time	So, Efficiency of (A + B) = 4	$36/9 = 4$
Efficiency of C = (A+B+C) – (A+B)	So, Efficiency of C = 9 – 4 = 5	

A, B and C are opened simultaneously for 3 hours.	So, Filled tank = Efficiency of (A + B + C) × time = 27 units	$9 \times 3 = 27$
Remaining tank is filled by C.  Remaining capacity = 36 – 27 = 9 units	Hence, Time taken by C = 1.8 hours	$9/5 = 1.8$

**Question 80 :**

A girl is observing a bird silting at a height of 500 in from the ground. The angle of elevation of the bird from the girl's eyes is  $45^\circ$  at the initial position. After some time, the girl moves on the ground towards the bird by 50 in and bird flies away from her At this point, the angle of elevation reduces to  $30^\circ$ . Find the distance travelled by the bird. Take  $\sqrt{3} = 1.73$ .

Difficulty : Moderate

Average Time : 350 Seconds

**Options :**

1. 915 m
2. 415 m
3. 365 m
4. 315 m

**Solution :**

Correct Answer is option 2 i.e. 415 m

Understanding	Application	Calculation
---------------	-------------	-------------



Now,	$BE = DF - DA$	$5003 - 450$
Distance travelled by bird = BE	Here, $DA = AC - AD = 500 - 50 =$ $450$	$500 \times 1.73 - 450$
	So,	$865 - 450$
	$BE = 5003 - 450 = 415 \text{ m}$	$415$

**Question 81 :**

Which of the following is an example of a metal that needs to be stored under oil?

**Difficulty : Moderate****Average Time : 343 Seconds****Options :**

1. Potassium
2. Gold
3. Iron
4. Silver

**Solution :**

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

Lithium, potassium, sodium, and Cesium metal are kept under oil or kerosene as they both can react in air or water. These metals are so highly reactive that the pure metal must be kept in an oxygen and oxidizer free storage.

**Question 82 :**

Find the greatest number which is such that when 76, 151, and 226 are divided by it, the remainders are all alike.

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

1. 60
2. 70
3. 75
4. 69

**Solution :**

Correct Answer is option 3 i.e. 75.

Application

We can write these numbers as:

$$76 = 75 \times 1 + 1$$

$$151 = 75 \times 2 + 1$$

$$226 = 75 \times 3 + 1$$

Here, we can see that 75 is such number.

When we divide 76, 151 and 226 by 75, we will get 1 as remainder in each case.

**Question 83 :**

Mehek goes for a stroll from her home. She starts walking facing the Sun at 6:00 am in the morning and walks 1 km straight. At a crossroads, she takes a right turn and then walks 1 km. Finally, she takes a Uturn and walks again for 1 km. How far is she from her home?

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

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

**Solution :**

The correct answer is **option 2 i.e. 1 km**

Understanding

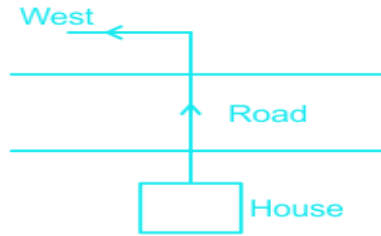
Application

She starts walking facing the Sun at 6:00 am in the morning: She must be facing east.

She walks 1 km straight then takes a right turn and then walks 1 km.

Finally, she takes a U turn and walks again for 1 km.

The diagram will be as follows:



Hence, She will be 1 km far from her home.

**Question 84 :**

16, 32, 64, 128, ....The sum of first 10 numbers in the series is:

**Difficulty : Moderate**

**Average Time : 91 Seconds**

**Options :**

- 1. 16368
- 2. 13668
- 3. 16386
- 4. 16638

**Solution :**

Correct Answer is option 1 i.e. 16368

Understanding	Application	Calculation
---------------	-------------	-------------

<p>16, 32, 64, 128, ....</p> <p>It is a geometric progression.</p>	<p>Sum of GP</p> $= a (r^n - 1)/(r - 1)$ <p>Where,</p> <p><math>a = 1^{\text{st}}</math> term,</p> <p><math>r = 2^{\text{nd}}</math> term/<math>1^{\text{st}}</math> term = 2</p>	
<p>16, 32, 64, 128, ....</p>	<p>Here,</p> <p><math>a = 16, r = 32/16 = 2, n = 10</math></p> <p>So,</p> <p>Sum = 16368</p>	$[16(2^{10} - 1)/(2 - 1)]$ $[16 \times (1024 - 1)]$ $[16 \times 1023]$ <p>16368</p>

**Question 85 :**

The Emmy Awards, seen in the news, are presented for excellence in which of the following fields?

Difficulty : Moderate

Average Time : 202 Seconds

**Options :**

1. Music
2. Cinema
3. Television industry
4. Literature

**Solution :**

The correct answer is **option 3** i.e. **Television industry**.



**Emmy Awards:**

- The Primetime Emmy Award is an American award bestowed by the Academy of Television Arts & Sciences in recognition of excellence in American primetime television programming.
- The Los Angeles-based Academy of Television Arts & Sciences (ATAS) established the Emmy Award as part of an image-building and public relations opportunity.

**Question 86 :**

When a 50 decimeter long ladder is placed with the wall, it reaches upto the window only. If the window is 48 decimeter up from the land, then find out the distance of the lower face of the ladder from the wall.

**Difficulty : Moderate****Average Time : 70 Seconds****Options :**

1. 14 decimeter
2. 10 decimeter
3. 11 decimeter
4. 12 decimeter

**Solution :**

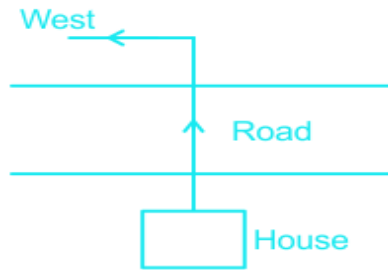
Correct Answer is option 1 i.e. 14 decimeter

Understanding	Application	Calculation
---------------	-------------	-------------

Given:

Ladder length = 50 decimeter

Window is 48 decimeter up from the land



So,

$$x = 14 \text{ decimeter}$$

Distance of the lower face of the ladder from the wall = 14 decimeter

$$x = (50^2 - 48^2)$$

$$x = (2500 - 2304)$$

$$x = 196$$

$$x = 14$$

### Question 87 :

Barometer is related to Pressure, in the same way as Seismograph is related to .....

Difficulty : Moderate

Average Time : 158 Seconds

### Options :

1. Flood
2. Earthquake
3. Humidity
4. Temperature

### Solution :

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

Understanding

Barometer is the instrument to measure the pressure.

Similarly,

Seismograph is the instrument to measure the Earthquake.

**Question 88 :**

If in a certain language, TREE is coded as USFE. How will MANGO be coded in that language?

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

1. OPHNB
2. NOPHB
3. BHONC
4. NBOHP

**Solution :**

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

**Understanding**

Logic:

Each letter is moved forward by 1.

TREE is coded as USFF.

$T + 1 = U$ ,  $R + 1 = S$ ,  $E + 1 = F$ ,  $E + 1 = F$

Similarly for MANGO:

$M + 1 = N$ ,  $A + 1 = B$ ,  $N + 1 = O$ ,  $G + 1 = H$ ,  $O + 1 = P$

Hence, the code: NBOHP.

**Question 89 :**

The political party that won the majority of seats in 2017 Uttarakhand Legislative Assembly Elections is .....

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

1. RPI
2. SP
3. BJP

**BSP****Solution :**

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

- 2017 Uttarakhand state assembly elections were the fourth Vidhan Sabha elections held in the state.
- The Bharatiya Janata Party secured a landslide victory, winning 57 of the total 70 seats.
- Trivendra Singh Rawat was chosen as the new Chief Minister after the elections.

**Question 90 :**

Pabitra had  $19\frac{2}{7}$  l of petrol in the fuel tank of his vehicle at the start of a journey. During the journey,  $13\frac{1}{2}$  l of petrol was consumed. What fraction of the initial petrol was left in the fuel tank after the journey?

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

1.  $\frac{7}{10}$
2.  $\frac{3}{5}$
3.  $\frac{3}{10}$
4.  $\frac{11}{40}$

**Solution :**

Correct Answer is option 3 i.e.  $\frac{3}{10}$

Understanding	Application	Calculation
Initial amount of petrol = $19\frac{2}{7}$ l $19\frac{2}{7} = \frac{135}{7}$ l And Consumed petrol = $13\frac{1}{2}$ l $13\frac{1}{2} = \frac{27}{2}$ l	So, Remaining petrol = $\frac{81}{14}$ l	$\frac{135}{7} - \frac{27}{2}$ $(270 - 189)/14$ $\frac{81}{14}$

	Hence,	$(81/14)/(135/7)$
	Remaining amount /Initial amount = $3/10$	$3/10$

**Question 91 :**

How many triangles are present in the given figure?

Difficulty : Moderate

Average Time : 175 Seconds

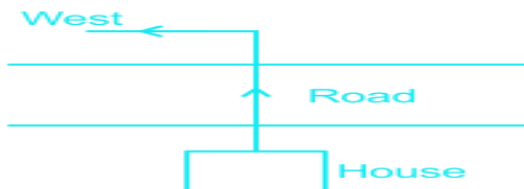
**Options :**

- 1. 18
- 2. 8
- 3. 10
- 4. 6

**Solution :**

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

**Understanding**



From the figure:

Triangles: ABI, CGH, CDG, GDF, DEF, DJF, GJF, GKJ, CKL, CBL, BCK, BDK, BDF, BEF, GFK, FHL, FBI, FBA

(Total 18 triangles)

**Question 92 :**

Jayant covers a certain distance in 2.5 hours at a speed of 54 km/h. How much time will Prabhu take to cover the same distance at a speed of 72 km/h?



Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 2.5 hours
2. 3 hours
3. 11/5 hours
4. 15/8 hours

Solution :

Correct Answer is option 4 i.e. 15/8 hours

Understanding	Application	Calculation
When, Speed = 54 km/hr Time = 2.5 hours	So, Distance = 135 km	$54 \times 2.5 = 135$
Now, Speed = 72 km/hr	Hence, Time = 15/8 hours	$135/72 = 15/8$

Question 93 :

Which of the following newspaper was written by Lokamanya Tilak during Indian National movement?

Difficulty : Moderate

Average Time : 171 Seconds

Options :

1. Bengalee
2. Yugantar
3. Atnrit bazaar patrika
4. Kesari

Solution :

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

<b>Kesari Newspaper:</b>	<ul style="list-style-type: none"><li>• Kesari is a Marathi newspaper which was founded in 1881 by Lokmanya Bal Gangadhar Tilak.</li><li>• The newspaper was used as a spokes piece for the Indian national freedom movement, and continues to be published by the Kesari Maratha Trust and Tilak's descendants.</li></ul>
<b>Lokmanya Bal Gangadhar Tilak:</b>	<ul style="list-style-type: none"><li>• He was an Indian nationalist, teacher, and an independence activist.</li><li>• The British colonial authorities called him "The father of the Indian unrest."</li><li>• He was also conferred with the title of "Lokmanya", which means "accepted by the people (as their leader)."</li></ul>

**Question 94 :**

Study the following pattern and select the figure that relates to the third figure in the same way that the second figure relates to the first figure:

Difficulty : Moderate

Average Time : 92 Seconds

**Options :**

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

**Solution :**

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

Understanding	Application
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For the figure, we can see that the 2nd figure can be drawn after rotating the 1st figure by 90 degree anticlockwise.

Following the same pattern, If we rotate 3rd figure by 90 degree anticlockwise, we will get Answer figure B.

**Question 95 :**

Given below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement. Statements: I like to cook food. I want to become a chef. Assumption: 1. I am a chef. 2. I am not a chef.

**Difficulty : Moderate****Average Time : 81 Seconds****Options :**

1. Only assumption 1 is implicit
2. Only assumption 2 is implicit
3. Both assumptions 1 and 2 are implicit
4. Either assumption 1 or 2 is implicit

**Solution :**

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

Understanding	Application
<b>Statement:</b> I like to cook food. I want to become a chef.	<b>Conclusions:</b> I. I am a chef. II. I am not a chef.  Only assumption 2 is implicit as it is clearly given that I want to become a chef (that means I am not a chef right now).

**Question 96 :**

What is mixing an acid with water that results in a decrease in the concentration of ions per unit volume called?

**Difficulty : Moderate****Average Time : 82 Seconds****Options :**



**Dilution**

2. Neutralisation

3. Acidification

4. Concentration

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

What is Dilution?	<ul style="list-style-type: none"><li>• Dilution is the process of decreasing the concentration of a solute in a solution, usually simply by mixing with more solvent like adding more water to a solution.</li><li>• To dilute a solution means to add more solvent without the addition of more solute.</li></ul>
What is Neutralisation?	<ul style="list-style-type: none"><li>• It is a chemical reaction in which an acid and a base react quantitatively with each other.</li></ul>
What is Acidification?	<ul style="list-style-type: none"><li>• It is the process of becoming acidic or being converted into an acid.</li></ul>

**Question 97 :**

Who is the Chief Editor of the news channel Times Now?

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

1. Ravish Kumar

2. Arnab Goswami

3. Rahul Shivshankar

4. Sonia Singh

**Solution :**The correct answer is **option 3** i.e. **Rahul Shivshankar**.

- In his new role, Shivshankar will lead the editorial team of Times Now and will work closely with the business and leadership teams to ensure that the channel grows significantly and profitably.
- He has served as editor-in-chief at NewsX, executive editor at Headlines Today (TV Today Network) and as Senior Editor of Times Now, previously. He has also worked for the editorial of The Times of India.
- The Times Now is a 24-hour English news channel in India owned and operated by The Times Group.

**Question 98 :**

Who among the following activists, associated with the Chipko Movement, is a Ramon Magsaysay Award winner?

Difficulty : Moderate

Average Time : 67 Seconds

**Options :**

1. Chandi Prasad Bhatt
2. Suncierlal Bahuguna
3. Amrita Devi
4. Laura Devi

**Solution :**

The correct answer is **option 1** i.e. **Chandi Prasad Bhatt**.

Chandi Prasad Bhatt:	<ul style="list-style-type: none"> <li>• He is an Indian Gandhian environmentalist and social activist, who founded Dasholi Gram Swarajya Sangh (DGSS) in Gopeshwar in 1964, which later became a mother-organization to the Chipko Movement.</li> <li>• He was one of the pioneers in Chipko Movement, and he was awarded the Ramon Magsaysay Award for Community Leadership in 1982, followed by the Padma Bhushan in 2005.</li> </ul>
Chipko Movement:	<ul style="list-style-type: none"> <li>• It was a forest conservation movement in India.</li> <li>• It began in Uttarakhand.</li> </ul>
Ramon Magsaysay Award:	<ul style="list-style-type: none"> <li>• Asia's premier prize and highest honor, celebrates greatness of spirit and transformative leadership in Asia.</li> <li>• It was established to perpetuate former Philippine President Ramon Magsaysay's example of integrity in governance.</li> </ul>

**Question 99 :**

Coming out of her house, Anya crossed a road. On reaching the other side of the road, she took a left turn and walked straight. If she is now in West, which direction was she facing before crossing the road?

Difficulty : Moderate

Average Time : 81 Seconds

Options :

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

Solution :

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

Understanding	Application
<p>After coming out of her house, Anya crossed the road.</p> <p>On reaching the other side of the road, she took a left turn and walked straight.</p> <p>She is now in facing West.</p>	<p>Since she is facing west after taking Left turn, she must be facing North direction before turning left.</p> <p>Hence, she facing North before crossing the road.</p>

Question 100 :

4 boys visit a garden after every 3, 5, 2 and 6 days, respectively. How many times in a year will they visit the garden on the same day? Consider counting is done from the start of the year.

Difficulty : Moderate

Average Time : 93 Seconds

Options :

1. 11
2. 14
3. 13
4. 12

Solution :

Correct Answer is option 4 i.e. 12

Understanding	Application	Calculation
4 boys visit a garden after every 3, 5, 2 and 6 days.	We need to find the LCM of these days to get after how many days they will visit simultaneously.  LCM = 30	LCM of 3, 5, 2 and 6 = 30
Number of days in a year = 365	If we divide 365 by 30, we will get 12 as the quotient.  Hence, they will visit the garden 12 times on the same day.	$365 = 12 \times 30 + 5$

## Rrb Group D CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Group D CBT - 1 Previous Year Question Paper held on 2018-10-16 in the Evening exam is as follows:

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- 100 questions were moderate.
2. The safe score is 77 marks.
3. 100 questions were asked from CBT -1 and 100 questions were asked from CBT -1
4. 23 questions should have been skipped if you were short of time.

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

### CBT -1

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



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

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### About Neetu Mam

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