

Rrb Ntpc CBT - 1 Previous Year Question Paper Overview

Here, you can solve all the questions asked in Rrb Ntpc CBT - 1 Previous Year Question Paper on 2016-03-29 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb Ntpc CBT - 1 exam. There are 100 questions in the exam and 90 minutes are provided for the Rrb Ntpc CBT - 1 exam. The Cutoff of the exam was 68 marks hence you should try to score at least 78 marks.

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

Comprehension :

Read the following information and answer the following questions below. In a class of 90 students, 80 students like burger or pizza. 62 like burger and 56 like pizza.

Question 1 :

How many don't like burger?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 18
2. 28
3. 38
4. 48

Solution :

Correct Answer is option 2 i.e. 28

Understanding	Application
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Total students = 90 80 students like burger or pizza. 62 like burger and 56 like pizza	Students who don't like burger = 90 – 62 = 28
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Comprehension :

Read the following information and answer the following questions below. In a class of 90 students, 80 students like burger or pizza. 62 like burger and 56 like pizza.

Question 2 :

How many like both burger and pizza?

Difficulty : Moderate

Average Time : 111 Seconds

Options :

- 24
- 38
- 32
- 18

Solution :

Correct Answer is option 2 i.e. 38

Understanding	Application
Total students = 90 80 students like burger or pizza. 62 like burger and 56 like pizza	Students who like both burger and pizza = (62 + 56) – 80 = 118 – 80 = 38

Comprehension :

Read the following information and answer the following questions below. In a class of 90 students, 80 students like burger

or pizza. 62 like burger and 56 like pizza.

Question 3 :

How many like neither burger nor pizza?

Difficulty : Moderate

Average Time : 116 Seconds

Options :

1. 10
2. 28
3. 16
4. 14

Solution :

Correct Answer is option 1 i.e. 10

Understanding	Application
Total students = 90 80 students like burger or pizza. 62 like burger and 56 like pizza	Students who neither like burger nor pizza $= 90 - 80 = 10$

Comprehension :

Read the following information and answer the following questions below. Bindu is standing exactly in the middle of a line of girls. Asha is 6th to the left of Bindu and Ritu is 16th to Bindu's right.

Question 4 :

What is Bind's position in the line?

Difficulty : Moderate

Average Time : 110 Seconds

Options :

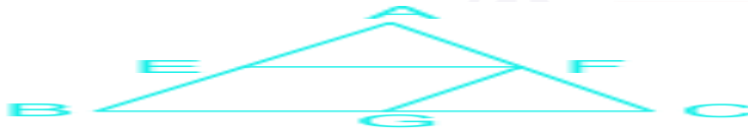
1. 11
2. 14

16

4. 17

Solution :

Correct Answer is option 4 i.e. 17

Understanding	Application
<p>Bindu is standing exactly in the middle of a line of girls.</p> <p>Asha is 6th to the left of Bindu and Ritu is 16th to Bindu's right.</p> <p>Since any information about the girl at any end is given, we suppose Ritu is sitting at right end.</p> 	<p>Since Bindu is exactly at the middle, there must be 16 girls to Bindu's left also.</p> <p>Then, Then Bindu will be at 17th position from left side.</p>

Comprehension :

Read the following information and answer the following questions below. Bindu is standing exactly in the middle of a line of girls. Asha is 6th to the left of Bindu and Ritu is 16th to Bindu's right.

Question 5 :

What should be the minimum number of girls in the line?

Difficulty : Moderate

Average Time : 135 Seconds

Options :

1. 22


2. 28

3. 33

4. 32

Solution :

Correct Answer is option 3 i.e. 33

Understanding	Application
<p>Bindu is standing exactly in the middle of a line of girls.</p> <p>Asha is 6th to the left of Bindu and Ritu is 16th to Bindu's right.</p> <p>Since any information about the girl at any end is given, we suppose Ritu is sitting at right end.</p> 	<p>Since Bindu is exactly at the middle, there must be 16 girls to Bindu's left also.</p> <p>Then,</p> <p>Minimum number of girls in the line = $16 + 16 + 1 = 33$</p>

Comprehension :

Read the following information and answer the following questions below. Bindu is standing exactly in the middle of a line of girls. Asha is 6th to the left of Bindu and Ritu is 16th to Bindu's right.

Question 6 :

What is Asha's position in the line?

Difficulty : Moderate

Average Time : 133 Seconds

Options :

- 1. 22
- 2. 12
- 3. 18
- 4. 11

Solution :

Correct Answer is option 4 i.e. 11.

Understanding	Application

Bindu is standing exactly in the middle of a line of girls.

Asha is 6th to the left of Bindu and Ritu is 16th to Bindu's right.

Since any information about the girl at any end is given, we suppose Ritu is sitting at right end.

Since Bindu is exactly at the middle, there must be 16 girls to Bindu's left also.

Then Asha will be at 11th position from left side.



Comprehension :

The below table gives rice production in each year. Read and answer the following questions. Year Production in tons 2005 325 2006 438 2007 429 2008 258 2009 495

Question 7 :

What was the decline in production in year 2008 compared to 2007?

Difficulty : Moderate

Average Time : 125 Seconds

Options :

- 1. 40%
- 2. 51%
- 3. 67%
- 4. 45%

Solution :

Correct Answer is option 1 i.e. 40%

Understanding	Application	Calculation
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Extract data from the table	Production in 2008 = 258 Production in 2007 = 429 Hence, Decline in production = 39.86% 40%	$= [(429 - 258)/429] \times 100$ $= 17100/429$ $= 39.86\%$
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Comprehension :

The below table gives rice production in each year. Read and answer the following questions. Year Production in tons
2005 325 2006 438 2007 429 2008 258 2009 495

Question 8 :

What was the average production of rice in the period 2005-2009?

Difficulty : Moderate

Average Time : 140 Seconds

Options :

- 1. 378
- 2. 389
- 3. 399
- 4. 412

Solution :

Correct Answer is option 2 i.e. 389

Understanding	Application	Calculation
Extract data from the table	Average production of rice in the period 2005-2009 = 349 tons	$= (325 + 438 + 429 + 258 + 495)/5$ $= 1945/5$ $= 389$

Comprehension :

The below table gives rice production in each year. Read and answer the following questions. Year Production in tons
2005 325 2006 438 2007 429 2008 258 2009 495

Question 9 :

What is the increased percentage of production in 2009 compared to year 2005?

Difficulty : Moderate**Average Time : 121 Seconds****Options :**

1. 38.1%
2. 29.2%
3. 52.3%
4. 46.3%

Solution :

Correct Answer is option 3 i.e. 52.3%

Understanding	Application	Calculation
Extract data from the table	Production in 2009 = 495 Production in 2005 = 325 Hence, Increased percentage = 52.3%	$= [(495 - 325)/325] \times 100$ $= 17000/325$ $= 52.3\%$

Question 10 :

Which is the brightest star in our night sky?

Difficulty : Moderate**Average Time : 129 Seconds****Options :**

1. Canopus
2. Sirius A
3. Vega
4. Spica

Solution :

Correct Answer is option 2 i.e. Sirius A

What is Sirius A?

- Sirius, also known as the Dog Star or Sirius A, is the brightest star in Earth's night sky.
- The name means "glowing" in Greek — a fitting description, as only a few planets, the full moon and the International Space Station outshine this star.
- Because Sirius is so bright, it was well-known to the ancients.

Question 11 :

Select the option that is related to the third term in the same way as the second word is related to the first term. 3 : 27 :: 5 : ?

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. 25
2. 125
3. 250
4. 625

Solution :

Correct Answer is **option 2** i.e. **125**

Understanding

$$3 : 27 :: 5 : ?$$

$$3^3 = 27$$

Similarly,

$$5^3 = 125$$

Question 12 :

If ALPHA = 36, BETA = 26, then DELTA = ?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 38
2. 31
3. 40
4. 36

Solution :

Correct Answer is option 3 i.e. 40

Concept	Understanding	Application
Logic: Code is 2 less than the sum of numerical position values of all letters.	Given: ALPHA = 36, $(1 + 12 + 16 + 8 + 1) - 2 = 36$ And BETA = 26 $(2 + 5 + 20 + 1) - 2 = 26$	Now, DELTA: $(4 + 5 + 12 + 20 + 1) - 2 = 42 - 2 = 40$

Question 13 :

Which country has won maximum number of world cup in football?

Difficulty : Moderate

Average Time : 151 Seconds

Options :

1. Italy
2. Argentina
3. Brazil
4. France

Solution :

Correct Answer is option 3 i.e. Brazil

- The national team of Brazil has won the most Football World Cup titles of all time with five, winning the tournament in 1958, 1962, 1970, 1994 and, most recently, in 2002.
- The most recent World Cup, which was hosted by Russia in 2018, was won by France.
- Following Brazil are Germany and Italy, with 4 wins each.
- The FIFA World Cup is the most prestigious soccer competition in the world.
- Played every four years, the World Cup hosts the top 32 national teams in a month long tournament.

Question 14 :

If Reena sold 12 mobile phones for Rs. 188,160 which cost Rs. 14,056 per phone, what was the total profit made by her?

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. Rs. 19,488
2. Rs. 17,621
3. Rs. 21,014
4. Rs. 18,958

Solution :

Correct Answer is option 1 i.e. **Rs. 19,488**

Understanding	Application	Calculation
CP of a phone = Rs. 14056	CP of 12 phones = Rs. 168672	$14056 \times 12 = 168672$
Reena sold 12 mobile phones for Rs. 188160	So, SP of 12 phone = Rs. 188160	

Profit = SP – CP	Hence,	188160 – 168672
	Profit = Rs. 19,488	19488

Question 15 :

Simplify:

Difficulty : Moderate

Average Time : 190 Seconds

Options :

1. $1/10$
2. $3/10$
3. $11/10$
4. 1

Solution :Correct Answer is option 3 i.e. $11/10$ **Application**

$$\begin{aligned} & [2\frac{1}{3} - 1\frac{1}{2}] \text{ of } \frac{3}{5} + 1\frac{2}{5} \div 2\frac{1}{3} \\ & \Rightarrow [\frac{7}{3} - \frac{3}{2}] \text{ of } \frac{3}{5} + \frac{7}{5} \div \frac{7}{3} \\ & \Rightarrow \frac{5}{6} \times \frac{3}{5} + \frac{3}{5} \\ & \Rightarrow \frac{1}{2} + \frac{3}{5} \\ & \Rightarrow \frac{11}{10} \end{aligned}$$

Question 16 :

Ram and Rahim standing at a distance of 680m run towards each other at a speed of 8 m/sec and 9 m/sec respectively. After how long will they meet?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

17 sec

2. 24 sec

3. 40 sec

4. 36 sec

Solution :Correct Answer is option **3** i.e. **40 sec**

Understanding	Application	Calculation
Distance = 680 m Speeds 8 m/sec and 9m/sec.	Since they are running towards each other: Relative speed = 17 m/sec	$8 + 9 = 17$ m/sec
Time = distance/Speed	So, Time in which they will meet = 40 sec	$680/17 = 40$

Question 17 :

The diagonal of a rhombus is 8m and 6m respectively. Find its area.

Difficulty : Moderate

Average Time : 161 Seconds

Options :

1. 48 sq.m.

2. 24 sq.m.

3. 12 sq.m.

4. 96 sq.m.

Solution :

Correct Answer is option 2 i.e. 24 sq.m.

Understanding	Application	Calculation
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Diagonals of a rhombus: 8m and 6m	Area = $\frac{1}{2} \times$ (Product of diagonals) 24 sq.m.	$\frac{1}{2} \times 8 \times 6$ 24
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Question 18 :

A certain sum when invested at 5% interest compounded annually for 3 years yields an interest of Rs. 2,522. Find the Principal?

Difficulty : Moderate

Average Time : 129 Seconds

Options :

1. Rs. 12,522
2. Rs. 15,200
3. Rs. 16,000
4. Rs. 17,200

Solution :

Correct Answer is option 3 i.e. **Rs. 16,000**

Understanding	Application	Calculation
For CI: $CI = P[(1 + r/100)^t - 1]$		
r = 5% t = 3 CI = Rs. 2522 Suppose principal = P	Using formula: $2522 = P[(1 + 5/100)^3 - 1]$ P = Rs. 16000	$2522 = P[(1 + 5/100)^3 - 1]$ $2522 = P[9261/8000 - 1]$ $2522 = 1261P/8000$ $P = 8000 \times 2$ P = 16000

Question 19 :

Which number will fit both the series of numbers? Series A: 1, 4, 9... Series B: 1, 8, 27...



Difficulty : Moderate

Average Time : 197 Seconds

Options :

1. 42
2. 36
3. 64
4. 25

Solution :

Correct Answer is option 3 i.e. 64

Concept	Application
Series A: 1, 4, 9... (Square of natural numbers)	Here, 64 is a number which is both a square and cube number. Hence, it will fit both the series.
Series B: 1, 8, 27... (Cube of natural numbers)	

Question 20 :

Which Indian king used naval power to conquer parts of East Asia?

Difficulty : Moderate

Average Time : 100 Seconds

Options :

1. Akbar
2. Krishna deva Raya
3. Rajendra Chola
4. Shivaji

Solution :

Correct Answer is option 3 i.e. Rajendra Chola

Rajendra Chola:	<ul style="list-style-type: none"> • He was a Chola emperor of South India. • During his reign, he extended the influence of the Chola empire to the banks of the river Ganga in North India and across the Indian ocean to the West and South East Asia. • He used naval power to conquer parts of East Asia. • He defeated Sri Vijaya or Kadaram kingdom in East Asia and bore the title Kadaramkonda.
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Question 21 :

After allowing a discount of 20% on Marked price Kishore makes a profit of 12%.What percentage is the Marked price above the Cost price?

Difficulty : Moderate

Average Time : 95 Seconds

Options :

1. 40%
2. 32%
3. 25%
4. 8%

Solution :

Correct Answer is option 1 i.e. **40%**

Understanding	Application	Calculation
After allowing a discount of 20% on Marked price Kishore makes a profit of 12%.	So, $MP \times 0.8 = CP \times 1.12$ $MP/CP = 7/5$	$MP \times 0.8 = CP \times 1.12$ $MP/CP = 1.12/0.8$ $MP/CP = 14/10$ $MP/CP = 7/5$

MP : CP = 7 : 5	Required percentage =	$[(7 - 5)/5] \times 100$
	40%	200/5
		40

Question 22 :

Which of the following is a land locked country?

Difficulty : Moderate

Average Time : 188 Seconds

Options :

1. Azerbaijan
2. Kazakhstan
3. Pakistan
4. Bangladesh

Solution :

Correct Answer is option 2 i.e. Kazakhstan

What is land locked country?	<ul style="list-style-type: none"> • A landlocked country is a sovereign state that does not have territory connected to the World Ocean and are completely surrounded by other nations or territories. • There are currently 49 landlocked countries.
Kazakhstan:	<ul style="list-style-type: none"> • Kazakhstan. Kazakhstan is a landlocked country situated in eastern Asia. • The large country is bordered by four countries; Russia, Turkmenistan, Kyrgyzstan, and Uzbekistan. • Despite being landlocked, the country has sea transport, which is conducted on the Caspian Sea.

Question 23 :

The runs scored by two batsman over 7 matches are given below. Which batsman's average was better? Batsman 1 42 51 09 78 63 20 12 Batsman 2 30 22 91 76 84 11 07



Difficulty : Moderate

Average Time : 116 Seconds

Options :

1. Batsman 1 - 39.3
2. Batsman 1 - 45.9
3. Batsman 1 - 43.2
4. Batsman 2 - 45.9

Solution :

Correct Answer is option 4 i.e. Batsman 2 – 45.9

Application	Calculation
Average of batsman 1 = 39.28	$(42 + 51 + 9 + 78 + 63 + 20 + 12)/7$ $= 275/7 = 39.28$
Average of batsman 2 = 45.85	$(30 + 22 + 91 + 76 + 84 + 11 + 7)/7$ $= 321/7 = 45.85$

Question 24 :

What did Edward Jenner pioneer?

Difficulty : Moderate

Average Time : 114 Seconds

Options :

1. Vaccination
2. Electrocutation
3. Dialysis
4. Open heart surgery

Solution :

Correct Answer is option 1 i.e. Vaccination

Who was Edward Jenner?

- Edward Jenner was an English physician who was a contributor to development of the smallpox vaccine.
- The practice of vaccination was popularized by Jenner, and since then has been used ubiquitously to prevent several diseases.
- He was named “Father of Immunology”.

Question 25 :

Granite is an example of:

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. Metamorphic rock
2. Sedimentary rock
3. Igneous rock
4. Artificial stone

Solution :

Correct Answer is option 3 i.e. Igneous rock

Igneous rock:

- Igneous rock, any of various crystalline or glassy rocks formed by the cooling and solidification of molten earth material.
- Igneous rocks constitute one of the three principal classes of rocks, the others being metamorphic and sedimentary.
- Examples of intrusive igneous rocks are diorite, gabbro, granite, pegmatite, and peridotite.

Question 26 :

Which number will fit in '?' place in the following series? 2, ?, 12, 20, 30, 42

Difficulty : Moderate

Average Time : 82 Seconds



Options :

1. 2

2. 4

3. 6

4. 8

Solution :

Correct Answer is option 3 i.e. 6

Concept	Application
Logic: Even numbers starting with 4 are added in consecutive terms.	2, ?, 12, 20, 30, 42 $2 + 4 = 6$ $6 + 6 = 12$ $12 + 8 = 20$ $20 + 10 = 30$ $30 + 12 = 42$ Hence, 6 is the missing term.

Question 27 :

Find the value of $\sin 230 \cos 245 + 4 \tan 230 + (1/2) \sin 290 - \cos 290 + 1/24$

Difficulty : Moderate

Average Time : 115 Seconds

Options :

1. 3

2. 4

3. 2

4. 1

Solution :

Correct Answer is option 3 i.e. 2

Application

$$\sin^2 30 \cos^2 45 + 4 \tan^2 30 + (1/2) \sin^2 90 - \cos^2 90 + 1/24$$

$$(1/2)^2 \times (1/2)^2 + 4 \times (1/3)^2 + \frac{1}{2} \times 1 - 0 + 1/24$$

$$1/4 \times 1/2 + 4 \times 1/3 + 1/2 + 1/24$$

$$1/8 + 4/3 + 1/2 + 1/24$$

$$48/24$$

$$2$$

Question 28 :

Simplify $[(81x^2 - 49y^2) \div (9x + 7y)]$

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. $9x + 7y$

2. $9x - 7y$

3. $9x$

4. $7y$

Solution :

Correct Answer is option 2 i.e. **(9x - 7y)**

Understanding	Application
$a^2 - b^2 = (a - b)(a + b)$	$(81x^2 - 49y^2) \div (9x + 7y)$ $[(9x - 7y)(9x + 7y)] \div (9x + 7y)$ $(9x - 7y)$

Question 29 :

Who is called the Frontier Gandhi?



Difficulty : Moderate

Average Time : 104 Seconds

Options :

1. Muhammed Ali Jinnah
2. Mahatma Gandhi
3. Khan Abdul Ghaffar Khan
4. Bal Gangadhar Tilak

Solution :

Correct Answer is option 3 i.e. Khan Abdul Ghaffar Khan

Khan Abdul Ghaffar Khan:

- He was a Pashtun independence activist who worked to end the rule of the British Raj in India.
- He was a political and spiritual leader known for his nonviolent opposition.
- A close friend of Mohandas Gandhi, he was nicknamed the "Frontier Gandhi".
- He strongly opposed the proposal for the partition of India, siding with the Indian National Congress and All India Azad Muslim Conference.

Question 30 :

The average age of 27 students of a class is 22. If the age of the teacher is also added to their ages, then the average increases by one. Find the age of the teacher.

Difficulty : Moderate

Average Time : 100 Seconds

Options :

1. 42
2. 48
3. 50
4. 52

Solution :

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Correct Answer is option **3** i.e. **50**

Understanding	Application	Calculation
Average age of 27 students of a class is 22	So, Total Age = 594	$27 \times 22 = 594$
When age of teacher is included: the average increases by one	New Average = $22 + 1 = 23$ Total Age (Including teacher) = 644	$28 \times 23 = 644$
	Now, Age of teacher = 50 years	$644 - 594 = 50$

Question 31 :

With which sport is the term 'Tee' connected?

Difficulty : Moderate

Average Time : 194 Seconds

Options :

1. Hockey
2. Polo
3. Golf
4. Badminton

Solution :

Correct Answer is **option 3** i.e. **Golf**

<p>What is the meaning of 'Tee' in golf?</p>	<ul style="list-style-type: none"> The golf tee is the little piece of equipment that raises the golf ball off the ground when playing the first stroke of a hole from the teeing ground. A golf tee is typically a thin, wood or plastic peg, two or three inches in height, atop which a golf ball sits in a stable and stationary position.
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Question 32 :

If SUN = 108, MOON = 114 what is STAR = ?

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. 120
2. 116
3. 122
4. 128

Solution :

Correct Answer is **option 2** i.e. **116**

Concept	Understanding	Application
<p>Logic: Code is equal to 2 times the sum of numerical position values of all letters.</p>	<p>SUN = 108, $19 + 21 + 14 = 54$ So, $54 \times 2 = 108$ And MOON = 114 $13 + 15 + 15 + 14 = 57$ So, $57 \times 2 = 114$</p>	<p>Now, STAR $19 + 20 + 1 + 18 = 58$ So, $58 \times 2 = 116$ Hence, 116 is the correct answer.</p>

Question 33 :



If A's sister's husband is B's mother-in-law's son-in-law, how is A related to B?

Difficulty : Moderate

Average Time : 160 Seconds

Options :

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

Solution :

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

Understanding	Application
<p>A's sister's husband is B's mother-in-law's son-in-law.</p> <pre>graph TD; Z((Z)) --- A[A]; A --- B((B)); A --- X((X)); X --- Y[Y];</pre>	<p>B's mother-in-law will be mother of A.</p> <p>Hence, A will be husband of B.</p>

Question 34 :

If $1 = 2$, $3 = 6$, $4 = 8$, and $+ = -$, what would be the value of $41 + 34 + 13 = ?$

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. -88
2. 88
3. 12
4. -12

Solution :

Correct Answer is option 4 i.e. -12.

Understanding	Application
Given $1 = 2, 3 = 6, 4 = 8,$ and $+ = -$	$41 + 34 + 13$ Using the given codes: $82 - 68 - 26$ $82 - 94$ -12

Question 35 :

Simplify $50 + 18 - 8$

Difficulty : Moderate

Average Time : 111 Seconds

Options :

- 82
- 72
- 62
- 52

Solution :

Correct Answer is option 3 i.e. 62

Application
$50 + 18 - 8$
$52 + 32 - 22$
$82 - 22$
62

Question 36 :

World environment day is observed on:

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. February 28
2. May 16
3. June 5
4. September 12

Solution :

Correct Answer is **option 3** i.e. **June 05**.

World environment day:	<ul style="list-style-type: none">• World Environment Day is the United Nations day for encouraging worldwide awareness and action to protect our environment.• Since it began in 1974, the event has grown to become a global platform for public outreach that is widely celebrated in over 100 countries.• The theme for 2020 is biodiversity.• This year's host is Colombia in partnership with Germany.
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Question 37 :

In a camp 180 students had ration for 20 days. How many students should leave the camp if the ration should last for 25 days?

Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. 36
2. 24
3. 28
4. 40

Solution :

Correct Answer is option 1 i.e. 36

Understanding	Application	Calculation
180 students had ration for 20 days.	So, Total ration = 3600	$180 \times 20 = 3600$
If the ration should last for 25 days	Number of students = 144	$3600/25 = 144$
	Hence, $36 (= 180 - 144)$ students must leave.	

Question 38 :

Punched card is also called:

Difficulty : Moderate

Average Time : 174 Seconds

Options :

1. Hollerith card
2. Video card
3. Sound card
4. Accelerator card

Solution :

Correct Answer is option 1 i.e. Hollerith card

- A punched card also known as Hollerith card is a piece of stiff paper that can be used to contain digital data represented by the presence or absence of holes in predefined positions.
- Punched cards were widely used through much of the 20th century in the data processing industry.
- While punched cards are now obsolete as a storage medium, as of 2012, some voting machines still use punched cards to record votes.

Question 39 :

Divide 13,680 in three parts such that 1st part is $\frac{3}{5}$ th of the third part and the ratio between 2nd and 3rd part is 4:7. How much is the first part?

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. 3780
2. 6300
3. 3600
4. 4800

Solution :

Correct Answer is option 1 i.e. 3780

Understanding	Application	Calculation
First part is $\frac{3}{5}$ th of third part. 2^{nd} part : 3^{rd} part = 4 : 7	Suppose, 3^{rd} part = x 1^{st} part = $\frac{3x}{5}$ 2^{nd} part = $\frac{4x}{7}$	

Since total is 13680	$x + 3x/5 + 4x/7 = 13680$	$x + 3x/5 + 4x/7 = 13680$ $76x/35 = 13680$ $x = 180 \times 35$ $x = 6300$
	Hence, First part = $3x/5$ $= 3780$	$3x/5$ $= 3 \times 6300/5$ $= 3780$

Question 40 :

CAT : Mouse as SNAKE :

Difficulty : Moderate

Average Time : 225 Seconds

Options :

1. Reptile
2. Mongoose
3. Hole
4. Poison

Solution :

Correct Answer is option 2 i.e. Mongoose.

Understanding	Application
CAT : MOUSE The pair Cat and Mouse is famous for their fight.	Similarly, The fight between Snake and Mongoose is also famous.

Question 41 :

Which of the following is called Aurum?

Difficulty : Moderate

Average Time : 93 Seconds

Options :

1. Bronze
2. Gold
3. Silver
4. Copper

Solution :

Correct Answer is option 2 i.e. Gold.

- Aurum, the Latin word for gold and the source of its chemical symbol, "Au".
- Aurum is pure gold, that is 24 karat gold which is 99.9999 [per cent].

Question 42 :

What comes next in series? B, D, H, N, ?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. V
2. P
3. S
4. W

Solution :

Correct Answer is option 1 i.e. V

Concept	Application
---------	-------------

Logic:

1st letter is forwarded by 2, 2nd by 4, 3rd by 6 and so on.

B, D, H, N ?

$$B + 2 = D$$

$$D + 4 = H$$

$$H + 6 = N$$

Now,

$$N + 8 = V$$

Hence, V is the next term.

Question 43 :

Jimmy Wales and Larry Sanger are associated with?

Difficulty : Moderate

Average Time : 121 Seconds

Options :

1. Wikipedia
2. Google
3. Whatsapp
4. Facebook

Solution :

Correct Answer is **option 1** i.e. **Wikipedia**

Wikipedia:

- Wikipedia is an online free-content encyclopedia that you can edit and contribute to.
- On January 15, 2001, with Larry Sanger and others, Jimmy Wales launched Wikipedia.

Question 44 :

Which single discount will be equal to two successive discounts of 12% and 5%?

Difficulty : Moderate

Average Time : 68 Seconds



Options :

1. 17%
2. 8.5%
3. 16.4%
4. 15.2%

Solution :

Correct Answer is option 3 i.e. 16.4%

Application

Two successive discounts of 12% and 5%:

Single discount = $12 + 5 + (12 \times 5)/100$

= $17 - 0.6$

= 16.4%

Question 45 :

Which is the largest non-polar desert in the world?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. Kalahari
2. Gobi
3. Sahara
4. Great Australian

Solution :

Correct Answer is **option 3** i.e. **Sahara**

Sahara desert:	<ul style="list-style-type: none">• The Sahara is a desert located on the African continent.• It is the largest hot desert in the world, and the third-largest desert overall after Antarctica and the Arctic.• Since Antarctica and the Arctic are located at poles, Sahara is the largest non-polar desert.
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Question 46 :

The ratio between weights of gold and silver in alloy is 17:3. If the weight of alloy is 2.7gm, find the weight of gold in the alloy?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 12.6 gm
2. 15.3 gm
3. 18 gm
4. 21.2 gm

Solution :

Correct Answer is option 2 i.e. 15.3 gm

Understanding	Application
Ratio between the weights of gold and silver in an alloy is 17:3	Suppose, Weights of gold and silver are $17x$ and $3x$ respectively.
Weight of silver in the alloy is 2.7 gm	So, $3x = 2.7$ $x = 0.9$ Hence, Weight of gold = $0.9 \times 17 = 15.3$ gm

Question 47 :



Where is the headquarters of Interpol located?

Difficulty : Moderate

Average Time : 137 Seconds

Options :

1. Paris
2. London
3. Lyon
4. Brussels

Solution :

Correct Answer is **option 3** i.e. **Lyon**

What is Interpol?

- The International Criminal Police Organisation (INTERPOL) is an international organization that facilitates worldwide police cooperation and crime control.
- INTERPOL enables police in 194 member countries to work together to fight international crime.
- Headquarters: Lyon, France
- Governing body: INTERPOL General Assembly

Question 48 :

In an equilateral triangle ABC, D, E, F are the mid points of AB, BC and AC respectively. The quadrilateral BEFD is a

Difficulty : Moderate

Average Time : 88 Seconds

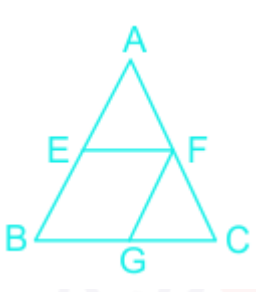
Options :

1. Square
2. Rectangle
3. Parallelogram

Rhombus

Solution :

Correct Answer is option 3 i.e. Parallelogram

Understanding	Application
<p>In equilateral triangle ABC, D, E, F are the mid points of AB, BC and AC respectively.</p>	<p>Following figure can be drawn:</p>  <p>Since it is an equilateral triangle:</p> <p>$BC \parallel EF$ and $AB \parallel FG$</p> <p>Hence, BEFG is a parallelogram.</p>

Question 49 :

Where is the Island of Seychelles located?

Difficulty : Moderate

Average Time : 107 Seconds

Options :

1. Indian Ocean
2. Pacific Ocean
3. Atlantic Ocean
4. The Southern Ocean

Solution :

Correct Answer is option 1 i.e. Indian Ocean

Island of Seychelles:	<ul style="list-style-type: none">• It is an archipelagic island country in the Indian Ocean at the eastern edge of the Somali Sea.• It consists of 115 islands.• Its capital and largest city is Victoria.
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Question 50 :

If $COW \div CW = 13$, what might be the value of COW?

Difficulty : Moderate**Average Time : 79 Seconds****Options :**

1. 272
2. 195
3. 323
4. 387

Solution :

Correct Answer is option 2 i.e. 195.

Understanding	Application
Given, $COW \div CW = 13$	COW must be divisible by 13. Among the options, only 195 is divisible by 13.

Question 51 :

Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to beat variance with the commonly known facts. Statements: 1. Health insurance in India caters only to rich. 2. Health insurance sector should be regulated. Conclusion I. Health insurance sector should be nationalized II. Health insurance is not required for the poor. Decide which of the given conclusions logically follow(s) from the given statements.

Difficulty : Moderate**Average Time : 113 Seconds****Options :**

Neither I nor II follow.

2. Only conclusions I follows
3. Either I or II follow
4. Only conclusion II follows

Solution :

Correct Answer is option 1 i.e. Neither I nor II follow.

Concept	Application
Statements: 1. Health insurance in India caters only to rich. 2. Health insurance sector should be regulated.	Conclusion: I. Health insurance sector should be nationalized: Not follows (As it is given that it should be regulated not nationalized.) II. Health insurance is not required for the poor: Not follows (Not mentioned.) Hence, Neither I nor II follow.

Question 52 :

Which of the following is always present in organic compounds?

Difficulty : Moderate

Average Time : 126 Seconds

Options :

1. Carbon
2. Nitrogen
3. Sulphur
4. Potassium

Solution :

Correct Answer is option 1 i.e. Carbon

- Organic compounds typically consist of groups of carbon atoms covalently bonded to hydrogen, usually oxygen, and often other elements as well.
- Created by living things, they are found throughout the world, in soils and seas, commercial products, and every cell of the human body.

Question 53 :

The sum of two digits of a number is 10. If the digits are interchanged, then its value increases by 18. Find the number.

Difficulty : Moderate**Average Time : 68 Seconds****Options :**

1. 46
2. 64
3. 19
4. 28

Solution :

Correct Option is 1 i.e. 46.

Understanding

Let the number is $10x + y$

So, number formed by reversing its digits is

$$= 10y + x$$

Also given,

$$x + y = 10 \text{ and}$$

$$(10y - x) - (10x - y) = 18$$

Application

Solving both equations we get

$$9y - 9x = 18$$

$$y - x = 2$$

Also, $x + y = 10$

So, $x = 4$ and $y = 6$

So the number is 46.

Question 54 :

The perimeter of a rectangle is 28 cm. If the length is $\frac{5}{2}$ times its breadth, find the length and breadth of the rectangle (in cm).

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 9 & 5
2. 10 & 4
3. 6 & 7
4. 11 & 3

Solution :

Correct Answer is **option 2** i.e. **10 & 4**

Understanding	Application	Calculation
Length is $\frac{5}{2}$ times its breadth	Suppose, Breadth = x Length = $\frac{5x}{2}$	

The perimeter of the rectangle is 28 cm.	So, $2 \times (x + 5x/2) = 28$ $x = 4$	$2 \times (x + 5x/2) = 28$ $2 \times 7x/2 = 28$ 4
Now, $x = 4$	Hence, Length = $4 \times 5/2 = 10$ Breadth = 4	

Question 55 :

Find the mean of the first 6 prime numbers?

Difficulty : Moderate

Average Time : 211 Seconds

Options :

1. 14/3
2. 3
3. 41/6
4. 13/2

Solution :

Correct Answer is option 3 i.e. 41/6

Understanding	Application	Calculation
First 6 prime numbers are 2, 3, 5, 7, 11, 13	Mean = 41/6	$(2 + 3 + 5 + 7 + 11 + 13)/6$ $= 41/6$

Question 56 :

'E' is related to 'BH' in the same way as 'N' is related to?

Difficulty : Moderate

Average Time : 111 Seconds

Options :

IP

2. KQ

3. LP

4. KR

Solution :

Correct Answer is option 2 i.e. KQ

Understanding	Application
'E' is related to 'BH' B C D <u>E</u> F G H We can see, E is at exactly middle of B and H.	Similarly, K L M <u>N</u> O P Q Here, N is at exactly middle of K and Q. Hence, KQ is the answer.

Question 57 :

What smallest number should be added to the sum of squares of 15 and 14, so that the resulting number is a perfect square?

Difficulty : Moderate

Average Time : 120 Seconds

Options :

1. 17

2. 20

3. 11

4. 9

Solution :

Correct Answer is option 2 i.e. 20

Understanding	Application	Calculation
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Calculate sum of squares of 15 and 14.	$15^2 + 14^2 = 421$	$15^2 + 14^2$ $225 + 196$ 421
Nearest square number to 421 is 441 (= 21^2)	Hence, 20 should be added.	$441 - 421 = 20$

Question 58 :

If cost price of 5 cars is equal to selling price of 4 cars. Find the percentage of profit or loss?

Difficulty : Moderate

Average Time : 163 Seconds

Options :

1. 10% Profit
2. 10% Loss
3. 25% Profit
4. 25% Loss

Solution :

Correct Answer is option 3 i.e. 25% Profit

Understanding	Application	Calculation
CP of 5 cars = SP of 4 cars	$5CP = 4SP$ So, $CP/SP = 4/5$	

$$CP/SP = 4/5$$

Suppose

$$CP = 4x \text{ and } SP = 5x$$

Hence,

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

$$\text{Profit} = [5x - 4x]/4x = 25\%$$

Question 59 :

Madhubani painting style is native to which state?

Difficulty : Moderate

Average Time : 160 Seconds

Options :

1. Orissa
2. Andhra Pradesh
3. Bihar
4. Madhya Pradesh

Solution :

Correct Answer is option 3 i.e. Bihar

Madhubani painting style:

- Practiced in the Mithila region of the Indian subcontinent.
- This painting is done with a variety of tools, including fingers, twigs, brushes, nib-pens, and matchsticks and using natural dyes and pigments.
- Women paint pictures of nature and mythology to depict different events like birth, marriage, and cycles of life.

Question 60 :

Headquarters of UNESCO is located at

Difficulty : Moderate

Average Time : 82 Seconds

Options :



Moscow

2. New York

3. London

4. Paris

Solution :

Correct Answer is option 4 i.e. Paris

UNESCO:

- The United Nations Educational, Scientific and Cultural Organization is a specialized agency of the United Nations based in Paris, France.
- Head: Audrey Azoulay
- Its purpose is to promote international collaboration in education, sciences, and culture in order to increase universal respect for justice and human rights along with fundamental freedom proclaimed in the United Nations Charter.

Question 61 :

If angles of a quadrilateral are in the ratio 3:5:9:13, find the largest angle?

Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. 165

2. 180

3. 156

4. 190

Solution :

Correct Answer is option 3 i.e. 156

Understanding

Application

Calculation

Angles of a quadrilateral are in the ratio 3:5:9:13	Suppose angles are $3x$, $5x$, $9x$ and $13x$	
We know: Sum of angles of quadrilateral = 360	$3x + 5x + 9x + 13x = 360$ So, $x = 12$ Largest angle = $13x = 156$	$3x + 5x + 9x + 13x = 360$ $30x = 360$ $x = 12$

Question 62 :

A deep crack in glacier is called:

Difficulty : Moderate

Average Time : 165 Seconds

Options :

1. A crevice
2. A crevasse
3. A crack
4. A cleft

Solution :

Correct Answer is option 2 i.e. A crevasse

What is a crevasse?	<ul style="list-style-type: none"> • A crevasse is a deep crack, or fracture, found in an ice sheet or glacier, as opposed to a crevice that forms in rock. • Crevasses form in the top layers of a moving glacier, usually because some parts of the massive body are moving at a different pace than the rest.
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Question 63 :

Sita told her friend Gita "I am leaving today and will reach Mumbai tomorrow for my exams starting the day tomorrow, which is Friday". What day is tomorrow in this conversation?

**Difficulty : Moderate****Average Time : 86 Seconds****Options :**

1. Wednesday
2. Thursday
3. Tuesday
4. Saturday

Solution :

Correct Answer is option 2 i.e. Thursday.

Understanding	Application
Sita told her friend Gita "I am leaving today and will reach Mumbai tomorrow for my exams starting the day after tomorrow, which is Friday"	Day after tomorrow is Friday. So, tomorrow will be 'Thursday'.

Question 64 :

Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts. Statements: 1) Because of motor vehicles like cars, pollution has increased manifold. 2) Respiratory diseases are increasing due to pollution. Conclusions: I. If cars were not there pollution would be nil. II. Doctors earn a lot due to pollution. Decide which of the given conclusions logically follow(s) from the given statements.

Difficulty : Moderate**Average Time : 114 Seconds****Options :**

1. Either I or II follow
2. Neither I nor II follow
3. Only conclusion I follows
4. Only conclusion II follows

Solution :

Correct Answer is option 2 i.e. Neither I nor II follow.

Understanding	Application
Statements: 1) Because of motor vehicles like cars, pollution has increased manifold. 2) Respiratory diseases are increasing due to pollution.	Conclusions: I. If cars were not there, pollution would be nil: Not follow (Pollution is caused by other activities also) II Doctors earn a lot due to pollution: Not follow (Nothing is mentioned about the earning of doctors) Hence, Neither I nor II follow.

Question 65 :

Geetha weighs 11.235 kg. Her sister weighs 1.4 times her weight. Find their combined weight?

Difficulty : Moderate**Average Time : 127 Seconds****Options :**

1. 15.729 kg.
2. 25.964 kg.
3. 26.964 kg.
4. 26.946 kg.

Solution :

Correct Answer is option 3 i.e. 26.964 kg

Understanding	Application
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Geetha weighs
11.235 kg.

Her sister weighs 1.4
times her weight

$$\begin{aligned}\text{Combined weight} &= 11.235 \times (1 + 1.4) \\ &= 11.235 \times 2.4 \\ &= 26.964 \text{ kg}\end{aligned}$$

Question 66 :

Who was the first to score a perfect 10 in Olympic in gymnastics?

Difficulty : Moderate

Average Time : 101 Seconds

Options :

1. Nadia Comaneci
2. Daniela Silivas
3. Alexander Dityatin
4. Mary Lou Retton

Solution :

Correct Answer is option 1 i.e. Nadia Comaneci

Nadia Comaneci:

- She is a Romanian retired gymnast and a five-time Olympic gold medalist, all in individual events.
- In 1976 at the age of 14, she was the first gymnast to be awarded a perfect score of 10.0 at the Olympic Games.

Question 67 :

Who was the last Mughal Emperor?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. Babur
2. Jehangir

Akbar

4. Bahadur Shah

Solution :

Correct Answer is option 4 i.e. Bahadur Shah

Bahadur Shah:	<ul style="list-style-type: none">• Bahadur Shah Zafar or Bahadur Shah II was the last Mughal emperor.• He was the second son of and became the successor to his father, Akbar II.• He fought the revolt of 1857 (first independence war of India) with many freedom fighters or leaders such as Rani Lakshmi bai, Tantia Tope and Mangal Pandey, etc. against the East India Company and British army.
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Question 68 :

In a certain code language, North = West, South = East, East = North, which direction does the sun rise?

Difficulty : Moderate

Average Time : 87 Seconds

Options :

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

Solution :

Correct Answer is option 3 i.e. North.

Understanding	Application
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Given code:

North = West,

South = East,

East = North

Actually Sun rises in the east.

But East = North

Hence,

Sun rises in North.

Question 69 :

If $\frac{1}{4}$ th of the wall is painted blue, $\frac{1}{2}$ is painted yellow and remaining 3 m is painted white, what is the length of the wall?

Difficulty : Moderate

Average Time : 118 Seconds

Options :

1. 10

2. 8

3. 16

4. 12

Solution :

Correct Answer is option 4 i.e. 12

Understanding	Application	Calculation
$\frac{1}{4}$ th of the wall is painted blue, $\frac{1}{2}$ is painted yellow.	Remaining fraction length of wall = $\frac{1}{4}$ th	$1 - \frac{1}{4} - \frac{1}{2}$ $= 1 - \frac{3}{4}$ $= \frac{1}{4}$
Since remaining length is 3 m.	$\frac{1}{4} \times \text{Length} = 3$ $\text{Length} = 12 \text{ m}$	

Question 70 :

If what is ?

Difficulty : Moderate

Average Time : 152 Seconds

Options :

523

2. 243

3. 432

4. 354

Solution :

Correct Answer is option 4 i.e. 354

Understanding	Application
Given: $\Delta O = 52$ $\square \# = 43$	So, $\Delta = 5, O = 2, \square = 4$ and $\# = 3$ Hence, $\# \Delta \square = 354$

Question 71 :Find the value of $[(0.0112 - 0.0012) \text{ of } 0.14 + 0.25 \times 0.2] / (0.02 \times 0.01)$:**Difficulty : Moderate****Average Time : 38 Seconds****Options :**

1. 257

2. 25.7

3. 2.57

4. 0.0257

Solution :

Correct Answer is option 1 i.e. 257

Application

$$[(0.0112 - 0.0012) \text{ of } 0.14 + 0.25 \times 0.2] / (0.02 \times 0.01)$$

$$[0.01 \times 0.14 + 0.25 \times 0.2] / 0.0002$$

$$[0.0014 + 0.05] / 0.0002$$

$$0.0514 / 0.0002$$

$$514 / 2$$

$$257$$

Question 72 :

Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts. Statements: 1) Some kids are clever. 2) Some kids are players. Conclusion: I. Some players are clever II. Some Clever kids are players. Decide which of the given conclusions logically follow(s) from the given statements.

Difficulty : Moderate**Average Time : 108 Seconds****Options :**

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

Solution :

Correct Answer is option 4 i.e. Neither conclusion I nor II follows.

Understanding

Application

Statements:

- 1) Some kids are clever.
- 2) Some kids are players.

Following venn diagram can be prepared:



Conclusions:

- I. Some players are clever: False
(Possible but not true)
 - II. Some clever kids are players: False
(Clearly shown in diagram)
- Hence, Neither conclusion I nor II follows.

Question 73 :

If x is a prime number, LCM of x and its successive number would be:

Difficulty : Moderate

Average Time : 139 Seconds

Options :

1. x
2. $x + 1$
3. $x(x + 1)$
4. $x/(x + 1)$

Solution :

Correct Answer is **option 3** i.e. $x(x + 1)$

Understanding	Application
x is a prime number. its successive number = $(x + 1)$	LCM of x and $(x + 1)$ will be $x(x + 1)$.

Example:

$$x = 13 \text{ and } (x + 1) = 14$$

$$\text{LCM} = 13 \times 14$$

Question 74 :

A points to B and says to a lady C "His mother is the only daughter of your father". If so, how is C related to B?

Difficulty : Moderate

Average Time : 125 Seconds

Options :

1. Mother
2. Daughter
3. Grandmother
4. Son

Solution :

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

Understanding

A points to B and says to a lady C, "His mother is the only daughter of your father"

B's mother's father is C's father, and C's father has only one daughter.



This clearly implies that C is the **mother** of B.

Question 75 :

Smita can finish a work in 12 days and Sam can finish the same work in 9 days. After working together for 4 days they both leave the job. What is the fraction of unfinished work?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. $1/2$
2. $7/9$
3. $2/9$
4. $1/4$

Solution :

Correct Answer is option 3 i.e. $2/9$

Understanding	Application	Calculation
Smita and Sam can finish a work in 12 days and 9 days respectively.	Suppose, Total work = 36 units	LCM of 12 and 9 = 36
Efficiency of work/Time	Efficiency of Smita = 3	$36/12 = 3$
Efficiency of work/Time	Efficiency of Sam = 4	$36/9 = 4$
They worked for 4 days.	Work done in 4 days = 28 units	$(3 + 4) \times 4 = 28$
So, Remaining work = $36 - 28 = 8$ units	Fraction of unfinished work = $2/9$	$8/36 = 2/9$

Question 76 :

Which is the only organ in the human body that can regrow/regenerate?

Difficulty : Moderate

Average Time : 258 Seconds

**Options :**

1. Spleen
2. Brain
3. Liver
4. Pancreas

Solution :

Correct Answer is option 3 i.e. Liver

- The liver is the only organ in the body that can grow cells and regenerate itself.
- It can actually be split in half and transplanted into two different recipients.
- A living personal also can have a portion of his or her liver removed, and the portion that remains will regenerate itself to nearly its original size.

Question 77 :

Which of the following is the currency of Thailand?

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Rupee
2. Ringgit
3. Baht
4. Yuan

Solution :

Correct Answer is option 3 i.e. Baht



- Baht is the official currency of Thailand. It is divided into 100 satang.
- The issuance of currency is the responsibility of the Bank of Thailand.
- According to Bloomberg, the Thai baht was the world's best performing currency in 2018.
- 1 Thai baht = 2.33 Indian Rupee
- Thailand Capital: Bangkok

Question 78 :

'Queensberry rules' is the code followed in which sport?

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. Tennis
2. Cricket
3. Boxing
4. Equestrian

Solution :

Correct Answer is option 3 i.e Boxing

Queensberry rules:

- Code of rules that most directly influenced modern boxing.
- Written by John Graham Chambers, a member of the British Amateur Athletic Club.
- Total 12 rules.

Question 79 :

What is the minimum age for getting elected to Lok Sabha?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. 18
2. 21

16

4. 25

Solution :The correct answer is **option 4** i.e. **25**.**Qualification for getting elected to the Lok Sabha:**

- Must be a citizen of India.
- Must not be less than 25 years of age.
- Must be a voter for any parliamentary constituency in India.
- Candidates are required to make a security deposit of Rs. 25,000.

Question 80 :

Where can you find the Kunchikal waterfalls?

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

1. Kerala
2. Karnataka
3. Andhra Pradesh
4. Telangana

Solution :

Correct Answer is option 2 i.e. Karnataka

Kunchikal waterfalls:

- The Kunchikal Falls is found in the Shimoga district of Karnataka, in the Agumbe Valley.
- They fall from a height of 1493 ft., making it the tallest waterfall in India.
- The falls are situated amidst an abundant rain-forest, verdant from the perennial rain.
- The waterfall is formed by the Varahi River.

Question 81 :

Name the official language of Brazil?



Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. Portuguese
2. German
3. Italian
4. Brazilian

Solution :

Correct Answer is option 1 i.e. Portuguese

Official language of Brazil:

- Portuguese is the official language as well as the most widely spoken language in Brazil.
- With roughly 204 million speakers, Brazil is the world's most populated Portuguese-speaking country.

Question 82 :

Who wrote the National song of India?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Rabindranath Tagore
2. Bankim Chandra Chatterjee
3. Mohammed Iqbal
4. Chitragupta

Solution :

Correct Answer is option 2 i.e. Bankim Chandra Chatterjee

**National
song:**

- The song Vande Mataram, composed in Sanskrit by Bankimchandra Chatterji, was a source of inspiration to the people in their struggle for freedom.
- The first political occasion when it was sung was the 1896 session of the Indian National Congress.
- Originally this song had been published in the novel 'Anandmath'.
- It was adopted on January 24, 1950 by providing it equal status with national anthem Jana Gana Mana.

Question 83 :

Pollination by wind is called?

Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. Hydrophily
2. Pollinophily
3. Anemophily
4. Herbophily

Solution :

Correct Answer is option 3 i.e. Anemophily

**What is
Anemophily?**

- Anemophily or wind pollination is a form of pollination whereby pollen is distributed by wind.
- Almost all gymnosperms are anemophilous, as are many plants in the order Poales, including grasses, sedges and rushes.

Question 84 :

Where in the human body can you find the islets of Langerhans?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

Small intestine

2. Pancreas

3. Stomach

4. Heart

Solution :

Correct Answer is option 2 i.e. Pancreas

Islets of Langerhans:	<ul style="list-style-type: none">• The islets of Langerhans are a cluster of cells within the pancreas that are responsible for the production and release of hormones that regulate glucose levels.• The pancreatic islets constitute 1 to 2% of the pancreas volume and receive 10–15% of its blood flow.• The pancreas is an organ that makes hormones to help your body break down and use food.
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Question 85 :

Azhar can complete a journey in 10 hours. He travels the first half of the journey at a speed of 21 km/hr and the balance at 24 km/h. Find the total distance in km?

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. 234

2. 225

3. 224

4. 232

Solution :

Correct Answer is option 3 i.e. 224

Understanding	Application	Calculation
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Suppose total distance = D		
Speed at first half = 21 km/hr.	So, Time = D/42	Time = $D/(21 \times 2)$ = D/42
Speed at 2 nd half = 24 km/hr.	So, Time = D/48	Time = $D/(24 \times 2)$ = D/48
Since total time = 10 hours	Distance D = 224 km	$D/42 + D/48 = 10$ $15D/336 = 10$ D = 3360/15 D = 224

Question 86 :

Which revolutionary took his own life?

Difficulty : Moderate

Average Time : 236 Seconds

Options :

1. Khudiram Bose
2. Rash Behari Bose
3. Bhagat Singh
4. Chandrashekhar Azad

Solution :

Correct Answer is option 4 i.e. Chandrashekhar Azad

Chandrashekhar Azad:

- He was an Indian revolutionary who organized and led a band of militant youth during India's independence movement.
- He is popularly known as by his self-taken name Azad.
- Azad died at Azad Park in Prayagraj on 27 February 1931.
- He shot himself after being surrounded by the police and left with no option of escape after the ammunition was finished.

Question 87 :

Where was paper invented?

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. China
2. India
3. Zambia
4. Germany

Solution :

Correct Answer is **option 1** i.e. **China**

- Paper was invented around 100 BC in China.
- Paper was first made in Lei-Yang, China by Ts'ai Lun, a Chinese court official.
- The word 'Paper' is derived from the Greek word pápyros, the name for the papyrus plant.

Question 88 :

What is the technology used in compact disc?

Difficulty : Moderate

Average Time : 69 Seconds

**Options :**

1. Electrical
2. Laser
3. Electro magnetic
4. Aeronotical

Solution :

Correct Answer is option 2 i.e. Laser

Compact disc:

- Compact discs or CDs are small plastic discs which store and retrieve computer data or music using light.
- Compact Discs replaced floppy disks because they were faster and could hold more information.
- Data on a CD is encoded with the help of a laser beam.

Question 89 :

From where was Mangalyaan launched?

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. Chennai
2. Sriharikota
3. Trombay
4. Gopalpur, on sea

Solution :

Correct Answer is option 2 i.e. Sriharikota

Mangalyaan:	<ul style="list-style-type: none">• The Mars Orbiter Mission, also called Mangalyaan, is a space probe orbiting Mars since 24 September 2014.• It was launched on 5 November 2013 by the Indian Space Research Organisation.• It will explore and observe Mars surface features, morphology, mineralogy and the Martian atmosphere
Sriharikota:	<ul style="list-style-type: none">• It houses the Satish Dhawan Space Centre, one of the two satellite launch centres in India.• It is a barrier island off the Bay of Bengal coast located in Andhra Pradesh.

Question 90 :Fill in the blanks: $\sin A = \text{_____} \times \cos A$

Difficulty : Moderate

Average Time : 115 Seconds

Options :

1. $\sin A$
2. $\tan A$
3. $\cot A$
4. $\cos A$

Solution :

Correct Answer is option 2 i.e. Tan A

Understanding	Application
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We know that:

$$\tan A = \frac{\sin A}{\cos A}$$

$$\sin A = \text{___} \times \cos A$$

So,

$$\text{___} = \frac{\sin A}{\cos A}$$

$$\text{___} = \tan A$$

Answer is $\tan A$

Question 91 :

Which of the following is reared for its fleece/fiber?

Difficulty : Moderate

Average Time : 112 Seconds

Options :

1. Alpaca
2. Alabama
3. Apache
4. Alluvial

Solution :

Correct Answer is option 1 i.e. Alpaca

What is Alpaca?

- The alpaca is a species of South American camelid descended from the vicuña.
- They were not bred to be working animals but were bred specifically for their fiber.
- Alpaca fiber is used for making knitted and woven items, similar to sheep's wool.

Question 92 :

Which of the following is the name of a medieval Indian book on mathematics?

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. Vastushastra



Leelavati

3. Panchadashi

4. Roopmati

Solution :

Correct Answer is option 2 i.e. Leelavati

Leelavati:	<ul style="list-style-type: none">• Leelavati – a treatise on arithmetic, geometry and the solution of indeterminate equations.• Written by Indian mathematician Bhaskaracharya, also known as Bhaskara II.• Bhaskara’s Leelavati, comprising most of the mathematical techniques needed for every day transactions and beyond, is one of the most popular mathematical textbooks ever written.
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Question 93 :

Which is the largest fresh water lake in the World?

Difficulty : Moderate

Average Time : 83 Seconds

Options :

1. Lake Victoria

2. Lake Erie

3. Lake Superior

4. Lake Ontario

Solution :

Correct Answer is option 3 i.e. Lake Superior

Lake Superior:

- Lake Superior, the largest of the Great Lakes of North America, is also the world's largest freshwater lake by surface area, and the third largest freshwater lake by volume.
- Lake Superior extends from the upper peninsula of Michigan north to Ontario, Canada, and reaches west to the eastern edge of Minnesota.

Question 94 :

If ! = \div , # = +, ^ = \times , calculate the value of $32!4^7\#5$

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. 58
2. 61
3. 64
4. 55

Solution :

Correct Answer is option 2 i.e. 61

Understanding	Application
Given: ! = \div , # = + and ^ = \times	$32!4^7\#5$ $= 32 \div 4 \times 7 + 5$ $= 8 \times 7 + 5$ $= 56 + 5$ $= 61$

Question 95 :

In which year RBI nationalized?



Difficulty : Moderate

Average Time : 102 Seconds

Options :

1. 1969
2. 1947
3. 1949
4. 1974

Solution :

Correct Answer is option 3 i.e. 1949

- The Reserve Bank of India (RBI) is India's central bank, which controls the issue and supply of the Indian rupee.
- RBI is the regulator of entire Banking in India.
- It also controls monetary policy in India.
- It was established following the Reserve Bank of India Act of 1934.
- Though privately owned initially, it was nationalized in 1949 and since then fully owned by Government of India.

Question 96 :

At a telephone exchange, three phones ring at intervals of 20 sec, 24 sec and 30 seconds. If they ring together at 11:25 a.m., when will they next ring together?

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. 11:29 a.m.
2. 11:27 a.m.
3. 11:51 a.m.
4. 12:29 a.m.

Solution :

Correct Answer is option 2 i.e. 11:27 am

Understanding	Application	Calculation
Three phones ring at intervals of 20 sec, 24 sec and 30 seconds.	LCM of 20, 24 and 30 = 120 Hence, 120 seconds = 2 minutes	$20 = 2 \times 2 \times 5$ $24 = 2 \times 2 \times 2 \times 3$ $30 = 2 \times 3 \times 5$ So, $LCM = 2 \times 2 \times 2 \times 3 \times 5 = 120$
They ring together at 11:25 am	After 2 minutes (= 11:27 am), they will ring again.	

Question 97 :

Din-i-Ilahi was promoted by:

Difficulty : Moderate

Average Time : 170 Seconds

Options :

1. Babur
2. Bahadur Shah
3. Akbar
4. Humayun

Solution :

Correct Answer is option 3 i.e. Akbar

<p>What is Din-i-Ilahi?</p>	<ul style="list-style-type: none"> • Din-i Ilahi “the religion of God,” was a system of religious beliefs introduced by the Mughal emperor Akbar in 1582 CE. • His idea was to combine Islam and Hinduism into one faith, but also to add aspects of Christianity, Zoroastrianism and Jainism.
<p>About Akabar:</p>	<ul style="list-style-type: none"> • He was the third Mughal emperor, who reigned from 1556 to 1605. Akbar succeeded his father, Humayun.

Question 98 :

If $a = x$, $b = \div$ and $c = +$, find the value of $7a5c1b6$

Difficulty : Moderate

Average Time : 106 Seconds

Options :

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

Solution :

Correct Answer is option **2** i.e. **6**.

Understanding	Application
<p>Given: $a = x$, $b = \div$ and $c = +$</p>	$7a5c1b6$ $= (7 \times 5 + 1) \div 6$ $= 36 \div 6$ $= 6$

Question 99 :

Find the odd one out: Chicken pox, Rubella, Flu, Meningitis

Difficulty : Moderate

Average Time : 102 Seconds

Options :

1. Chicken pox
2. Rubella
3. Flu
4. Meningitis

Solution :

Correct Answer is option 4 i.e. Meningitis.

Application

Chicken pox, Rubella and Flu are the diseases which are caused by Virus whereas Meningitis is caused by bacteria.

Hence Meningitis is the odd one.

Question 100 :

Which of the following gases are responsible for the greenhouse gas effect on Earth?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Water Vapour and Nitrogen
2. Carbon dioxide and Nitrogen
3. Carbon dioxide, Ozone and Methane
4. Ozone, Nitrogen and Carbon Monoxide

Solution :

Correct Answer is option 3 i.e. Carbon dioxide, Ozone and Methane

Greenhouse gas effect:

- The greenhouse effect is the process by which radiation from a planet's atmosphere warms the planet's surface to a temperature above what it would be without this atmosphere.
- The primary greenhouse gases in Earth's atmosphere are water vapor (H₂O), carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and ozone (O₃).

Rrb Ntpc CBT - 1 Previous Year Question Paper Analysis

The analysis of Rrb Ntpc CBT - 1 Previous Year Question Paper held on 2016-03-29 in the Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 68 marks.
3. 100 questions were asked from CBT -1 and 100 questions were asked from CBT -1
4. 44 questions should have been skipped if you were short of time.

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

CBT -1

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



1. Try to solve Rrb Ntpc CBT - 1 Previous Year Question Paper without taking any help from the solutions.
2. Rrb Ntpc 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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Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Rrb Ntpc CBT - 1 Previous Year Question Paper. She has guided her team to provide the best explanation for the question.