





Rrb Group D CBT - 1 Previous Year Question Paper Overview

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Here, you can solve all the questions asked in Rrb Group D CBT - 1 Previous Year Question Paper on 2018-10-12 in the Afternoon exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Rrb 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

Average Time : 43 Seconds

Question 1:

Raja Ravi Verma was a painter and sculptor from the state of

Difficulty : Moderate

Options:

- 1. Uttar Pradesh
- 2. Kerala
- 3. Tamilnadu
- 4. Assam

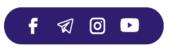
Solution :

The correct answer is option 2 i.e. Kerala.

Raja Ravi Verma:	 Raja Ravi Varma was a celebrated Indian painter and artist. He is considered among the greatest painters in the history of Indian art. His works are held to be among the best examples of the fusion of European techniques with a purely Indian sensibility. He was from Kilimanoor, Kerala.
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Question 2:

Which of the following cup/tournament is NOT associated with Cricket?



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Difficulty : Moderate

Average Time : 63 Seconds

Options :

- 1. Irani trophy
- 2. Ranji trophy
- 3. Begum Hazrat mahal trophy
- 4. Vijay Hazare trophy

Solution :

The correct answer is option 3 i.e. Begum Hazrat mahal trophy.

- Begum Hazrat mahal trophy is related to football.
- Irani trophy, Ranji trophy and Vijay Hazare trophy are related to cricket.

Question 3 :

Find the odd one out.

Difficulty : Moderate

Average Time : 39 Seconds

Options :

- 1. Quadratic Equation
- 2. Cubic Equation
- 3. Linear Equation
- 4. Real Numbers

Solution :

The correct answer is option 4 i.e. Real Numbers.

Application

Quadratic Equation, Cubic Equation, Linear Equation: All three have 1 or more than 1 variables.

But Real Numbers are just numbers (Constants) like 1, 2, 3 etc.

Hence, 'Real Numbers' is the odd one.

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Question 4 :

The atomic number of the atom that becomes stable by gaining 3 electrons in 5th shell is:

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Difficulty : Moderate

Average Time : 62 Seconds

- **Options**:
 - 1.57
 - 2.51
 - 3. 55
 - 4. 59

Solution :

The correct answer is **option 2** i.e. **51**.

have the following configuration:	
have the following configuration: 2, 8, 18, 18, 5	

```
Thus atomic number = 2 + 8 + 18 + 18 + 5 = 51
```

Question 5 :

Which of the following statements is correct?

Difficulty : Moderate

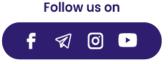
Average Time : 46 Seconds

Options:

- 1. Two or more resistors are said to be connected in series if different current flows through them.
- 2. Two or more resistors are said to be connected in series if the same current flows through them.
- 3. Two or more resistors are said to be connected in parallel if the same current flows through them.
- 4. Two or more resistors are said to be connected in parallel if different current flows through them.

Solution :

The correct answer is option 2 i.e. Two or more resistors are said to be connected in series if the same current flows through them.



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- When 2 or more resistors are connected in series, the current flowing through them will be same.
- When 2 or more resistors are connected in parallel, the current flowing through them will be different but vice versa is not true.

Question 6:

Consider the following question and decide which of the statements is sufficient to answer the question. The simple interest on a sum of money is Rs. 100. What is the sum? Statements: I. The interest rate is 20% per annum. II. The sum earned simple interest in 5 years.

Difficulty : Moderate

Average Time : 83 Seconds

Options:

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

Solution :

The correct answer is option 1 i.e. Both statements I and II are sufficient.

Understanding

Application



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	Simple interest = Rs. 100	
	Now,	
Statements: I. The interest rate is 20% per annum. II. The sum earned simple interest in 5 years	From statement 1:	
	r = 20	
	From statement 2:	
	t = 5	
	Both the values of r and t are needed to get the amount of sum.	
	Hence, Both statements I and II are sufficient.	

Question 7:

Which children's movie features the famous song, "The Bare Necessities"?

Difficulty : Moderate

Average Time : 63 Seconds

Options:

- 1. The Jungle Book
- 2. Rockford
- 3. Stanley's Tiffin Box
- 4. The BFG

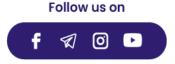
Solution :

The correct answer is option 1 i.e. The Jungle Book.

The Bare Necessities:	 "The Bare Necessities" is a song, written by Terry Gilkyson, from the animated 1967 Disney film The Jungle Book. Sung by Phil Harris as Baloo and Bruce Reitherman as Mowgli.
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Question 8 :

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Which of the following is NOT an equation of motion?

Difficulty : Moderate

Options:

- 1. $s = ut + 1/2 at^3$
- 2. v = u + at
- 3. $s = ut + 1/2 at^{2}$
- 4. $v^2 = u^2 + 2as$

Solution :

The correct answer is **option 1** i.e. $s = ut + 1/2 at^3$

3 equations of motion are: 1. v = u + at2. $s = ut + \frac{1}{2} at^2$ 3. $v^2 = u^2 + 2as$ Hence, equation in option 1 is not an equation of motion.

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Question 9 :

A and B can complete a task in 70 days, B and C can complete it in 52.5 days while C and A can do the same task together in 42 days. How many days will each of A, B and C take to complete the task individually?

Difficulty : Moderate

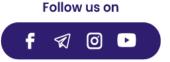
Options:

- 1. 105, 210 and 70
- 2. 56, 84 and 168
- 3. 70, 10 and 105
- 4. 84, 168 and 56

Solution :

The correct answer is option 1 i.e. 105, 210 and 70

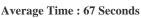
Understandin	g Applicat	ion	Calculation
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Average Time : 59 Seconds



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A and B can complete a task in 70 days, B and C can complete it in 52.5 days while C and A can do the same task together in 42 days.	Suppose, Total work = 210 units	LCM of 70, 52.5 and 42 = 210
Efficiencies = Work/Time	Efficiency of $(A + B) = 3$	210/70 = 3
Efficiencies = Work/Time	Efficiency of $(B + C) = 4$	210/52.5 = 4
Efficiencies = Work/Time	Efficiency of $(C + A) = 5$	210/42 = 5
From all 3 equations:	(A + B + C) = 6	(3 + 4 + 5)/2 = 6
	Hence, Efficiency of A = $6 - 4 = 2$ Efficiency of B = $6 - 5 = 1$ Efficiency of C = $6 - 3 = 3$	
Now, Time = Work/Efficiency	Time taken Individually: By A = 105 days By B = 210 days By C = 70 days	210/2 = 105 210/1 = 210 210/3 = 70

Question 10:

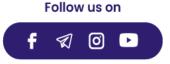
Which of the following statements is not true?

Difficulty : Moderate

Average Time: 370 Seconds

Options :

1. Bacteria present in the mouth produce acids by degradation of sugar and food particles remaining in the mouth.



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When pH of the mouth is higher than 5.5. then tooth decay starts.

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- 3. Tooth enamel made of calcium phosphate is the hardest substance in the body.
- 4. Using toothpaste, which are generally basic, helps neutralise the excess acid and prevent tooth decay.

Solution :

The correct answer is option 2 i.e. When pH of the mouth is higher than 5.5. then tooth decay starts.

• When there is excessive acid in the tooth, the decay starts. More acid means less pH that means statement 2 i.e. When pH of the mouth is higher than 5.5. then tooth decay starts is not correct.

Question 11 :

Consider the following question and decide which of the statements is sufficient to answer the question. Question: Find the value of z. Statements: 1) $z^2 = 36 + a^2$ a = $x^2 \& x = 8$

Difficulty : Moderate

Options :

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

Solution :

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

Understanding	Application

Average Time : 73 Seconds



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	From statement 2:
	x = 8 so, a = 82 = 64
Statements:	From statement 1:
1) z2 = 36 + a	z2 = 36 + 64 = 100
2) a = x2 & x =	z = 10
8	Hence, Both 1 and 2 are sufficient to answer the question.

Question 12:

The sum of a rational and an irrational number is a/an

Difficulty : Moderate

Options :

- 1. Rational number
- 2. Natural number
- 3. Irrational number
- 4. Complex number

Solution :

The correct answer is option 3 i.e. Irrational number.

Application

The sum of a rational and an irrational number is an Irrational number always.

Ex:

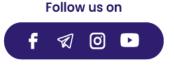
2/5 + 2 = [2(5 + 1)/5] is also an irrational number.

Question 13:

The Godavari, Krishna, Kaveri and Vaigai are flowing rivers.

Difficulty : Moderate

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Average Time : 52 Seconds





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Options:

- 1. north
- 2. east
- 3. west
- 4. south

Solution :

The correct answer is option 2 i.e. east.

West flowing rivers:	 Narmada, Tapti, Mahi, Sabarmati, Luni etc. 	
East flowing rivers:	 Mahanadi, Godavari, Krishna, Kaveri, Ganga, Brahmaputra, Penneru, Penneiyar, Vaigai, and the 	
IIVEIS.	Subarnarekha etc.	

Question 14:

Sarthak can fill a sand-pit with sand in 36 days while Vivan takes 90 days to fill it. Ali can take the entire sand of a filled sand-pit out in 60 days. If all three start working when the pit is empty, in how many days will the sand-pit be full again?

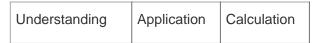
Difficulty : Moderate

Average Time : 56 Seconds

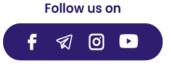
Options:

- 1.45 2.54 3. 48
- 4.50

Solution : The correct answer is option 1 i.e. 45



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FI	R	EE
P	D	F

Sarthak and Vivan take 36 and 90 days to fill the pit. Ali takes 60 days to empty the pit.	Suppose, Capacity of pit = 180 units	LCM of 36, 90 and 60 = 180	
Efficiencies = Work/Time	Efficiency of Sarthak = 5	180/36 = 5	
Efficiencies = Work/Time	Efficiency of Vivan = 2	180/90 = 2	
Efficiencies = Work/Time	Efficiency of Ali = -3	180/60 = 3	
All three start working when the pit is empty.	Work done in 1 day = 4 units	5 + 2 - 3 = 4	
Time = Total work/(Work done in 1 day)	Hence, Time taken = 45 days	180/4 = 45	

Question 15:

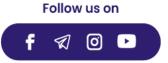
Find odd one out.

Difficulty : Moderate

Options :

1. VI

Average Time : 80 Seconds



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- 7
- 3. IX
- 4. VII

Solution :

The correct answer is option 2 i.e. 7

Understanding

VI, IX and VII are written in roman numbers but 7 is not.

Hence, 7 is the odd one.

Question 16 :

Select the option that is related to the third term in the same way as the second term is related to the first term. STEPS : SPETS : : CLOCK :?

Difficulty : Moderate

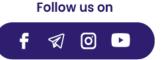
Options :

- 1. KCOCL
- 2. KCLOC
- 3. KOCLC
- 4. KCOLC

Solution :

Th correct answer is option 4 i.e. KCOLC

Concept	Understanding
Logic:	STEPS : SPETS :: CLOCK :?
The sequence of letters is reversed.	Hence, CLOCK will be coded as KCOLC.



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Average Time : 57 Seconds





Average Time : 45 Seconds



Question 17:

Shesh Arland Madhukar is a writer who was honoured with the Sahitya Academy Bhasha Sanunan Award in January, 2018.

Difficulty : Moderate

Options:

- 1. Maithili
- 2. Kannada
- 3. Magahi
- 4. Sanskrit

Solution :

The correct answer is option 3 i.e. Magahi.

Shesh Arland Madhukar:	 Magahi writer Shesh Anand Madhukar was on January 31, 2018 honoured with the Sahitya Akademi Bhasha Samman Award 2018. Madhurkar was conferred the award by Sahitya Akademi President Vishwanath Prasad Tiwari. The award prize consists of Rs 1 lakh cheque and a memento.

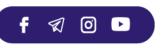
Question 18:

Which of the following Venn diagrams best illustrates the relation between the three given classes? Professor, Student, Player

Difficulty : Moderate

Average Time : 50 Seconds

Options:



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- В
- 2. C
- 3. D
- 4. A

Solution :

The correct answer is option 3 i.e. D

Understanding	Application
Professor, Student, Player	Hence, correct representation will be as shown:
Professor and Students are different entities.	Jaguars Cheetah Leoperds Panthers
Some Students could be player also.	Z XIIVE
Professor and Player are also different entities.	Hence, Figure D is correct.

Question 19:

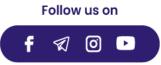
Sravanthi is Varun's maternal grandmother. How is Varun's only sister's mother related to Sravanthi?

Difficulty : Moderate

Options :

- 1. Daughter
- 2. Sister-in-law
- 3. Aunt
- 4. Sister

Solution : The correct answer is **option 1** i.e. **Daughter**. Average Time: 89 Seconds



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Understanding
Sravanthi is Varun's maternal grandmother.
Now,
Varun's only sister's mother will be Varun's mother also.
And, Sravanthi is Varun's Mother's mother.
Sravanthi
Mother Varun Sister
Hence, Varun's only sister's mother will be Daughter of Sravanthi.

Question 20:

Read the statement and decide which of the conclusions logically follows from the statement. Statement: This cup is filled with tea. Conclusions: I. The tea is too hot. II. The tea is sweet.

Difficulty : Moderate

Average Time : 76 Seconds

Options:

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

Solution :

The correct answer is option 1 i.e. Neither conclusion I nor II follows.

Understanding Application

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	Conclusions:
Statement: This cup is filled with tea.	I. The tea is too hot. (Not mentioned anything about it.)II. The tea is sweet. (Not mentioned anything about
	it.) Hence, Neither conclusion
	I nor II follows.

Question 21:

The has created National Highways Investment Promotion Cell (NHIPC) for attracting domestic and foreign investment for highways projects.

Difficulty : Moderate

Options:

- 1. SAIL
- 2. SAIL
- 3. TRAI
- 4. NHAI

Solution :

The correct answer is option 4 i.e. NHAI

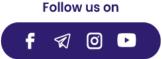
	 The National Highways Authority (NHAI) of India has created an (NHIPC) for
National Highways	attracting domestic and foreign investment for highways projects.
Investment Promotion Cell	 The cell will focus on engaging with global institution investors, construction
(NHIPC):	companies, developers and fund managers for building investor participation in
	road infrastructure projects.

Question 22:

Three out of the four options given below are related in a particular way. Choose the option that is different or odd from the others.

Difficulty : Moderate

Average Time : 53 Seconds



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Average Time : 59 Seconds







Options:

- 1. Jhelum
- 2. Betwa
- 3. Chambal
- 4. Yamuna

Solution :

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

Γ	Here,
	Betwa and Chambal are tributaries of the Yamuna River while Jhelum river is tributary of Indus river.
	Hence, Jhelum is the odd one.

Question 23:

A sum of money when invested for a year at the rate of 10% interest per annum compounded half-yearly becomes Rs. 44,100 at maturity. The sum invested was

Difficulty : Moderate

Average Time : 53 Seconds

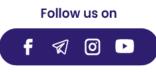
Options :

- 1. Rs. 40500
- 2. Rs. 40500
- 3. Rs. 39800
- 4. Rs. 40250

Solution :

The correct answer is option 1 i.e. Rs. 40000

Understanding	Application	Calculation
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A = Rs. 44100		44100 =
Given that the interest is	For Cl A = P(1 +	P(1 + 5/100)2
compounded half- yearly:	r/100)t	P × 441/400 =
r = 10/2 = 5%	P = Rs. 40000	44100
$t = 1 \times 2 = 2$		P = 40000

Question 24:

An athlete in the Olympic mines covers a distance of 100 m in 10 s. If its weight is approx 70 kg, his kinetic energy can be estimated to be in the range of _

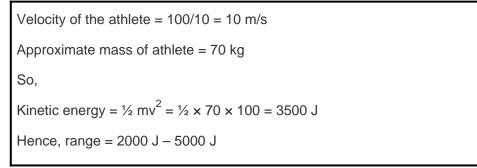
Difficulty : Moderate

Options :

- 1. 200000 J-500000 J
- 2. 200000 J-500000 J
- 3. 20000 J-50000 J
- 4. 2000 J-5000 J

Solution :

The correct answer is option 4 i.e. 2000 J-5000 J



Question 25:

Shamim had to travel 420 km in 8 hours. If he travelled at an average speed of 60 km/h and took two breaks in between, the shorter break being one-third the duration of the longer, how many minutes was the longer break for?

Difficulty : Moderate

Average Time : 59 Seconds



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Average Time : 59 Seconds





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Options:

- 1.45
- 2. 30
- 3. 40
- 4. 35

Solution :

The correct answer is option 1 i.e. 45.

Understanding A	pplication	Calculation	
travel 420 km in 8 hours. He travelled at an average speed of 60 km/h and took two breaks in between, the shorter break being one-third the duration of the longer. Suppose duration of the longer break	So, 20/60 + x x/3 = 8 $x = \frac{3}{4}$ ours x = 45 hinutes lence, uration of he longer reak = 45 hinutes	420/60 + x + x/3 = 8 7 + 4x/3 = 8 4x/3 = 1 x = 3/4	

Question 26 :

What is the HCF of 132 and 176?

Difficulty : Moderate

Options :

- 1.33
- 2.66
- 3.44

Average Time : 61 Seconds



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22

Solution :

The correct answer is option 3 i.e. 44

 $132 = 11 \times 3 \times 22$

 $176 = 11 \times 24$

Hence,

 $HCF = 11 \times 22 = 44$

Question 27:

Newton's second law of motion

Difficulty : Moderate

Options:

- 1. is also called as law of conservation of momentum.
- 2. is also called as law of inertia
- 3. describes the relationship between the forces on two interacting objects.
- 4. explains about change in momentum.

Solution :

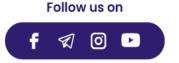
The correct answer is **Option 4** i.e. **explains about change in momentum**.

	 The second law states that 	
	the rate of change of	
Newton's	momentum of a body is	
second	directly proportional to the	
law of	force applied, and this	
motion:	change in momentum	
	takes place in the direction	
	of the applied force.	

Question 28:

The least reactive elements of the periodic table are:

Average Time : 37 Seconds



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Difficulty : Moderate

Average Time : 54 Seconds

Options :

- 1. Transition elements
- 2. Inner transition elements
- 3. Alkali metals
- 4. Noble gases

Solution :

The correct answer is option 4 i.e. Noble gases.

Noble gases:	 The noble gases make up a group of chemical elements with similar properties; under standard conditions, they are all odorless, colorless, monatomic gases with very low chemical reactivity.
	 The six naturally occurring noble gases are helium, neon, argon, krypton, xenon, and the radioactive radon.

Question 29 :

The square root of 19881 is:

Difficulty : Moderate

Options :

- 1. 149
- 2. 129
- 3. 141
- 4. 131

Solution :

The correct answer is option 3 i.e. 141

Application

Average Time : 60 Seconds

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Square root of 19881:

It is a number between 19600 (140^2) and 22500 (150^2) .

Number will be between 140 and 150 whose square has last digit 1.

Possible numbers = 141 and 149

Since, the number 19881 is near to $19600 (140^2)$.

Hence, Square root of 19881 = 141

Question 30:

What change will occur to the pH of a solution if its Hydrogen ion concentration is increased?

Difficulty : Moderate

Average Time : 62 Seconds

Options:

- 1. The pH will decrease.
- 2. The pH will first increase and after some time, decrease.
- 3. The pH will remain the same.
- 4. The pH will increase.

Solution :

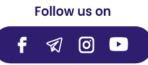
The correct answer is **option 1** i.e. **The pH will decrease**.

Hydrogen ion concentration:	 The concentration of hydrogen ions in a solution expressed usually in moles per liter or in pH units and used as a measure of the acidity of the solution. In the pH scale, as H+ ion concentration increases, pH values decrease. This means that a low pH value represents a high H+ ion concentration (acidic solution) and a high pH value represents a low H+ concentration (basic solution).
--------------------------------	--

Question 31:

The Mission Olympic Cell (MOC) of the Union Ministry of Sports and Youth Affairs included the Men's team of India in

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the Target Olympic Podium scheme.

Difficulty : Moderate

Options:

- 1. Hockey
- 2. Shooting
- 3. Football
- 4. Badminton

Solution :

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

• Target Olympic Podium (TOP) Scheme was formulated in July 2014 under overall ambit of National Sports Development Fund (NSDF) with the aim to identify, groom and prepare potential medal prospects for Olympic and Paralympic Games.

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- Till date, 352 athletes have received assistance under TOP Scheme.
- · Indian men's hockey side becomes first team to be included in Target Olympic Podium Scheme.
- Each of the 18 members of the hockey team will now get a monthly allowance of Rs 50,000.

Question 32:

75% of the students passed in an examination. If 2 more students had passed the examination, 80% would have been successful. How many students are there in the class?

Difficulty : Moderate

Options:

- 1.40
- 2.30
- 3.50
- 4. 32

Solution :

Average Time : 67 Seconds

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Average Time : 77 Seconds

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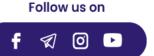
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Correct Answer isoption 1 i.e. 40

Understanding	Application
Suppose total students = x	Since 75% of the students passed in an examination;
	So,
	Number of passed students = 0.75x
If 2 more students	So,
had passed the examination, 80%	(0.75x + 2) = 0.8x
would have been	0.05x = 2
successful.	x = 40
	Hence, total students = 40

Question 33:

Which of the following is NOT a difference between lenses and mirrors?

Difficulty : Moderate

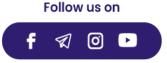
Average Time : 141 Seconds

Options:

- 1. Light reflects from a mirror. Light goes through and is refracted by a lens.
- 2. A concave mirror converges light to a focal point. For lenses, light converges to a point for a convex lens.
- 3. A convex mirror converges light, as does a concave lens.
- 4. Lenses have two focal points, one on either side of the lens.

Solution :

The correct answer is option 3 i.e. A convex mirror converges light, as does a concave lens.



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- · Mirror works on the principle of reflection while lens works on the principle of refraction.
- A convex mirror or diverging mirror is a curved mirror in which the reflective surface bulges towards the light source.
- A concave lens is a diverging lens, meaning that it spreads out light rays that have been refracted through it.

Hence, option 3 is correct.

Question 34 :

The median of the first 25 whole numbers is:

Difficulty : Moderate

Options:

- 1.10
- 2. 12.5
- 3. 15
- 4. 12

Solution :

Correct Answer is option 4 i.e. 12

Application

Median of the first 25 whole numbers (0, 1, 2....25)

= 12

Question 35 :

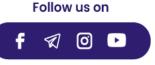
4 W X Z 8 Q P O J 6 G T M V E U H 5 3 B If the letters in the position 8, 12, 13 and 15 from the left are picked to form a meaningful word, then the third letter of the word would be:

Difficulty : Moderate

Average Time : 74 Seconds

Options:

1	Ρ



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Average Time : 74 Seconds





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- 0
- 3. E
- 4. M

Solution :

The correct answer is option 4 i.e. M

Understanding
4 W X Z 8 Q P O J 6 G T M V E U H 5 3 B
Letters in the position 8, 12, 13 and 15 from the left are: O, T, M, E
Meaningful word from these letters is TOME, MOTE.
Third letter of the word is M or T. But T is not in option.
Hence, M is the correct answer

Question 36 :

A cube of 9 cm edge is immersed completely in a rectangular vessel containing water. If the base of the vessel is 12 cm ×15 cm then find the rise in the level of water when the cube is immersed?

Difficulty : Moderate

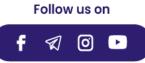
Options:

- 1. 4.55 cm
- 2. 6.05 cm
- 3. 6.55 cm
- 4. 4.05 cm

Solution :

Correct Answer is option 4 i.e. 4.05 cm

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



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Average Time : 75 Seconds





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Suppose rise in the level of water = h	So, 12 × 15 × h = 9 × 9 × 9	12 × 15 × h = 9 × 9 × 9 180h = 729
Volume of the water raised = Volume of Cube	h = 4.05 cm	h = 729/180 h = 4.05

Question 37:

Mohan's mother was four times as old as Mohan ten years ago. After 10 years, she will be twice as old as Mohan. How old is Mohan today?

Difficulty : Moderate

Options :

- 1. 20 years
- 2. 15 years
- 3. 22 years
- 4. 32 years

Solution :

Correct Answer is option 1 i.e. 20 years

Understanding	Application
Suppose age of Mohan = x Age of Mohan's mother = y	
Mohan's mother was four times as old as Mohan ten years ago.	$(y - 10) = 4 \times (x - 10)$ 4x - y = 40 - 10 = 30 4x - y = 30

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After 10 years, she will be twice as old as Mohan.	$(y + 10) = 2 \times (x + 10)$ y - 2x = 20 - 10 = 10 y - 2x = 10
Solving both equations:	x = 20, y = 50 Hence, Age of Mohan = 20 years

Question 38 :

 $105 \times 2 \div (3 \times 5) 6 = ?$

Difficulty : Moderate

Options :

- 1. -70
- 2.5
- 3.8
- 4. 35

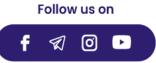
Solution :

Correct Answer is option 3 i.e. 8

Application
$105 \times 2 \div (3 \times 5) 6 = ?$
Applying BODMAS rule:
105 × 2 ÷ 15 – 6
14 – 6
8

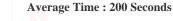
Question 39 :

The arithmetic mean of four distinct numbers is 90. If the greatest of the four numbers is 120, what is the maximum



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possible value of the range of the set of four numbers?

Difficulty : Moderate

Options :

- 1. 115
- 2. 117
- 3. 116
- 4. 118

Solution :

Correct Answer is option 2 i.e. 117

Understanding	Application
The arithmetic mean of four distinct numbers is 90.	So, Sum of numbers = $90 \times 4 = 360$
The greatest of the four numbers is 120.	Sum of remaining 3 numbers = 360 - $120 = 240$
Now,	But;
Maximum possible	119 + 118 + 117 = 354 240
values of other numbers = 119, 118,	Hence, 3 rd number will be 3 so that:
117	119 + 118 + 3 = 240
	Hence,
	Range = 3 to 119 i.e. 117.

Question 40 :

The process of releasing of an egg from the ovary is called

Difficulty : Moderate

Average Time : 169 Seconds



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Average Time : 93 Seconds





Average Time : 57 Seconds



Options:

- 1. Fertilisation
- 2. Reproduction
- 3. Gestation
- 4. Ovulation

Solution :

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

Ovulation:	 Ovulation is the release of an egg from one of a woman's ovaries.
	• After the egg is released, it travels down the
	fallopian tube, where fertilization by a sperm cell
	may occur.

Question 41:

Barkha Dutt is known for her role as which of the following?

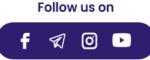
Difficulty : Moderate

Options :

- 1. Politician
- 2. Doctor
- 3. Journalist
- 4. Actor

Solution :

The correct answer is option 3 i.e. Journalist.



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Barkha Dutt:	 Barkha Dutt is an Indian television journalist and author. Barkha emerged as a prominent figure after her frontline war reporting on the Kargil Conflict between India and Pakistan in 1999. Awards: Padma Shri Books: This Unquiet Land: Stories from India's
	Fault Lines TV shows: We the People

Question 42:

..... describes pollination by the agency of ants.

Difficulty : Moderate

Options :

- 1. Emasculation
- 2. Ficus Religiosa
- 3. Dirmecophily
- 4. Myrmecophily

Solution :

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

Myrmecophily:	It is the term applied to positive interspecies	
	associations between ants and a variety of other	
	organisms such as plants, other arthropods, and	
	fungi.	

Question 43 :

Oxides of non-metals are usually _

Difficulty : Moderate

Options :

- 1. acidic
- 2. neutral

f

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Average Time : 61 Seconds

Average Time : 57 Seconds





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FREE

less reactive

4. basic

Solution :

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

Oxides of non- metals:	 Non-metal oxides are usually gases at room temperature. They dissolve in water to form acidic solutions. Non-metal oxides such as sulphur dioxide and nitrogen oxide are responsible for acid rain.



How many sectors are present in the below figure?

Difficulty : Moderate

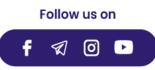
Options:

- 1. 64
- 2. 40
- 3. 48
- 4.56

Solution :

Correct Answer is option 4 i.e. 56

Understanding	Application
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Average Time : 45 Seconds

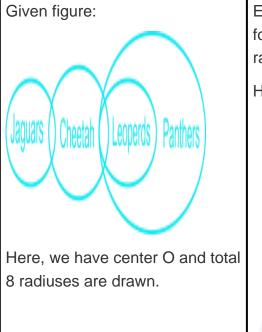






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Each radius/line (Like AO,BO etc.) forms 7 different sectors with other 7 radiuses at different angles.

Hence, total sectors = $7 \times 8 = 56$

Question 45:

As of February 2018. the Chairman of Central Board of Film Certification is:

Difficulty : Moderate

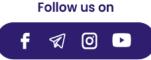
Average Time: 107 Seconds

Options:

- 1. Sujit Sircar
- 2. Prasoon Joshi
- 3. Swanand Kirkire
- 4. Pahlaj Niialani

Solution :

The correct answer is option 2 i.e. Prasoon Joshi.



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Chairman of (Central	 The Union Information and Broadcasting
Board of Film		Ministry has appointed Prasoon Joshi as the
Certification:		new Chairman of Central Board of Film
		Certification (CBFC) on August 11, 2017.
		 He will replace Pahlaj Nihalani and shall
		have tenure of three years.
		 Prasoon Joshi is renowned songwriter-poet
		known for his contribution to various films
		and for designing successful ad campaigns.
		He has been honoured with Padma Shri.
1		

Question 46 :

Find the next term in the following series. 48, 47, 50, 49,?

Difficulty : Moderate

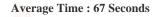
Options :

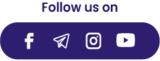
- 1. 52
- 2.58
- 3. 60
- 4.57

Solution :

The correct answer is option 1 i.e. 52

Understanding	
Logic: (- 1) and (+ 3) alternately.	
48, 47, 50, 49,?	
48 – 1 = 47	
47 + 3 = 50	
50 - 1 = 49	
49 + 3 = 52	
Hence, next term is 52.	





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Question 47 :

Which of the following numbers is a composite?

Difficulty : Moderate

Options :

- 1. 263
- 2. 293
- 3. 283
- 4. 273

Solution :

Correct Answer is option 4 i.e. 273

Understanding	Application	Calculation
Composite number: is a positive integer. which is not prime (i.e., which has factors other than 1 and itself).	273 is divisible by 3. Hence, it is composite number.	<mark>273/</mark> 3 = 91

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Question 48 :

Atomic Power Station is located at Rawatbhata in the state of

Difficulty : Moderate

Options :

- 1. Maharashtra
- 2. Madhya Pradesh
- 3. Rajasthan
- 4. Gujarat

Solution :

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

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Average Time : 40 Seconds







Rawatbhata Atomic Power Station:	Located at Rawatbhata in the state of Rajasthan, India.
	Units operational:
	1 x 200 MW
	4 x 220 MW
	Total capacity: 1080 MW
	Operator: Nuclear Power Corporation of India Ltd (NPCIL)

Question 49:

Find the number of triangles in the given figure.

Difficulty : Moderate

Options :

- 1. 14
- 2.12
- 3.10
- 4. 16

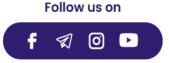
Solution :

The correct answer is option 1 i.e. 14.

Understanding	Application
Jaguars Cheetah Leoperds Panthers	The triangles are: ABJ, ACJ, ABC, CDI, EDI, CDE, FGH, GHB, BGF, BJH, HJK, JKI, JIC, JHI (Total 14 triangles)

Question 50 :





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The square root of which of the numbers below will be rational?

Difficulty : Moderate

Options :

- 1. 16848
- 2. 41872
- 3. 49883
- 4. 43264

Solution :

Correct Answer is option 4 i.e. 43264

Understanding	Application
We need to check the square roots.	Square root of $16848 = 129.79$ Square root of $41872 = 204.62$ Square root of $49883 = 223.34$ Square root of $43264 = 208$ Hence, square root of 43264 is rational.

Question 51 :

A body of mass m moving with velocity 4 km/h collides with a body of mass 3m at rest. Now the coalesced mass starts to move with a velocity of:

Difficulty : Moderate

Options :

- 1. 4 km/h
- 2. 3 /4 km/h
- 3. 1 km/h
- 4. 2 km/h

Solution :

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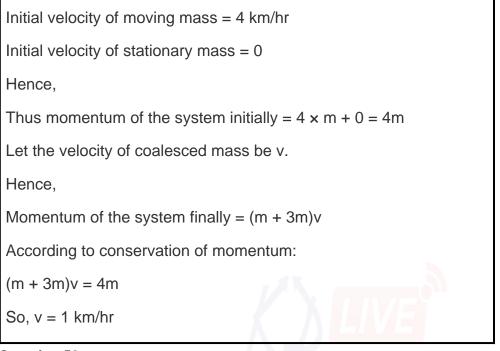
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Correct Answer is option 3 i.e. 1 km/h



Question 52 :

Which of the numbers given below is NOT divisible by 4?

Difficulty : Moderate

Options :

- 1. 89700
- 2. 76166
- 3. 43584
- 4. 74708

Solution :

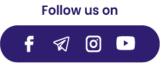
Correct Answer is option 2 i.e. 76166

Understanding

Application

Average Time : 106 Seconds





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We need to check the divisibility by 4.	89700/4 = 22425
	76166/4 = 19041.5
	43584/4 = 10896
	74708/4 = 18677
	Hence,
	76166 is NOT divisible by 4.

Question 53 :

Rs. 10000 invested at 30% rate of interest per annum. but compounded every four months, will give an amount of Rs. in one year.

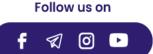
Difficulty : Moderate

Options :

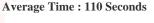
- 1. 13270
- 2. 13000
- 3. 13300
- 4. 13310

Solution : Correct Answer is option 4 i.e. 13310

Understanding	Application	Calculation
P = Rs. 10000 r = 30% per annum time = 1 year	Since the interest is compounded every four months: r = 30/3 = 10% t = 3	



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For CI:	A = 10000 × (1 +
$A = P(1 + r/100)^{t}$	10/100) ³
	10000 × 1331/1000
	13310

Question 54 :

Preethi tells Kajol, "Your mother's father's own son is my husband." How is Preethi related to Kajol?

Difficulty : Moderate

Options :

- 1. Daughter
- 2. Cousin
- 3. Sister-in-law
- 4. Aunt

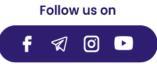
Solution :

The correct answer is option 4 i.e. Aunt.

Understanding	Application
Preethi tells Kajol, "Your mother's father's only son is my husband"	Family tree: Y X Z Preethi Kajol Hence, Preethi is Aunt of Kajol.

Question 55 :

Select the option that is related to the third term in the same way as the second term is related to the first term. Bird : Nest :: Lion:?



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Difficulty : Moderate

Average Time : 75 Seconds

Options :

- 1. Hive
- 2. Den
- 3. Igloo
- 4. Convent

Solution :

The correct answer is option 2 i.e. Den.

Application	
Bird : Nest :: Lion : ?	
The birds live in the Nest.	9
In the same way, the place where Lion lives is called Den.	
Hence, Den is the correct answer.	

Question 56 :

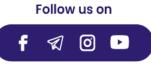
Arjit's age is 3 years more than 1.5 times the age of Heera, whose age in turn is 10 years more than 2/3 the age of Deepika. If 5 times the age of Deepika is equal to 3 times the age of Arjit, what is the sum of the present ages of the trio?

Difficulty : Moderate

Options :

- 1. 99 years
- 2. 95 years
- 3. 100 years
- 4. 97 years

Solution : Correct Answer is option 3 i.e. 100 years Average Time : 66 Seconds



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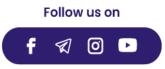
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Understanding	Application	Calculation
Age of Heera is 10 years more than 2/3 the age of Deepika. Suppose the age of Deepika = x	Age of Heera = 2x/3 + 10	2/3 × x + 10 2x/3 + 10
Arjit's age is 3 years more than 1.5 times the age of Heera	Age of Arjit = x + 18	(2x/3 + 10) × 1.5 + 3 x + 15 + 3 x + 18
Now, 5 times the age of Deepika is equal to 3 times the age of Arjit	So, 5x = 3(x + 18) 2x = 54 x = 27	
	Hence, Age of Heera =	2x/3 + 10 28
	Age of Arjit =	x + 18 = 45
	Sum of ages = 100 years	27 + 28 + 45 = 100

Question 57 :

Neela was sweeping the floor. When she was facing south-west, she moved the broom 90° along the floor to her right. In which direction is the broom facing with respect to its initial position?



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Difficulty : Moderate

Average Time : 344 Seconds

Options :

- 1. North-west
- 2. South-west
- 3. North-east
- 4. South-east

Solution :

The correct answer is option 1 i.e. North-west

Understanding	Application
Neela was sweeping the floor. When she was facing south- west, she moved the broom 90° along the floor to her right	Broom is facing North west direction with respect to its initial position.

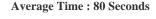
Question 58 :

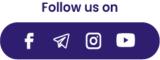
The two roots of a quadratic equation are given as x = 5/3 and x = -3/10. The equation can be written as:

Difficulty : Moderate

Options :

- 1. $(10x \ 3)(3x \ 5) = 0$
- 2. (10x + 3)(3x 5) = 0
- 3. (10x + 3)(3x + 5) = 0





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$(10x \ 3)(3x + 5) = 0$

Solution :

Correct Answer is option 2 i.e. (10x + 3)(3x 5) = 0

Understanding	Application
Roots:	So,
x = 5/3 and $x = -3/10$	(x - 5/3) = 0 and
	(x + 3/10) = 0
	So,
	The equation is:
	(3x-5)(10x+3)=0

Question 59 :

How many groups are there in the modern periodic table?

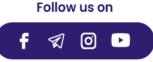
Difficulty : Moderate

Options :

- 1.9
- 2.18
- 3. 21
- 4.8

Solution :

Correct Answer is option 2 i.e. 18



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Average Time: 129 Seconds





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Modern periodic	 The modern table arranges the elements
table:	by increasing atomic number instead of
	atomic mass (Done in Mendeleev's table).
	 The modern table has more elements than
	Mendeleev's table.
	 Modern table has many more groups—18
	compared with just 8 in Mendeleev's table.

Question 60:

Ratnagiri mines are found in which state?

Difficulty : Moderate

Options :

- 1. Gujarat
- 2. Telangana
- 3. Maharashtra
- 4. Karnataka

Solution :

The correct answer is option 3 i.e. Maharashtra.

Ratnagiri mines:	 Ratnagiri is a port city on the Arabian Sea coast in Ratnagiri District in Maharashtra. The district is a part of Konkan division of Maharashtra. Specialty of Ratnagiri district is the wide-spread laterite mines. This type of rock which is less hard than the basalt rock is an inseparable part of the Konkani life.
------------------	---

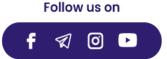
Question 61:

Founded in 1927, Dr. Bhimrao Ambedkar University is a non-profit public higher education institution located in the urban setting of the large city of

Difficulty : Moderate

Average Time: 67 Seconds

Average Time : 80 Seconds



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Options :

- 1. Gorakhpur
- 2. Agra
- 3. Lucknow
- 4. Kanpur

Solution :

The correct answer is option 2 i.e. Agra.

Dr. Bhimrao Ambedkar University:	 Dr. Bhimrao Ambedkar University, formerly Agra University, is a state university located in Agra, Uttar Pradesh, India. Established: 1927 Chancellor: Anandiben Patel (Governor)
-------------------------------------	--

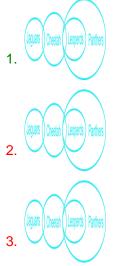
Question 62 :

Using the above three shapes form a valid shape and identify your shape with the below options?

Difficulty : Moderate

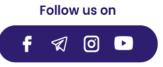
Average Time : 57 Seconds

Options :



4.

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Solution :

The correct answer is option 1.

Concept	Application
Figure formation: Observation	By observing carefully, we can conclude that figure in option 1 will be the figure formed with the help of given shapes.

Question 63 :

A hollow sphere with external and internal diameters as 24 cm and 16 cm, respectively, is melted into a cylinder with a base diameter of 32 cm. The height of the cylinder is closest to:

Difficulty : Moderate

Average Time : 97 Seconds

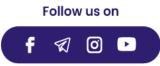
Options :

- 1. 7.33 cm
- 2. 5.56 cm
- 3. 5.16 cm
- 4. 6.33 cm

Solution :

Correct Answer is option 4 i.e. 6.33 cm

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



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External radius = 24/2 = 12 cm And Internal radius = 16/2 = 8 cm	Volume of hollow cylinder = 256/3	$4/3 \times (r_1^3 - r_2^3)$ $4/3 \times (12^3 - 8^3)$ $4/3 \times \times 1216$ 4864/3
It is melted into a cylinder with a base diameter of 32 cm (radius = 16 cm)	Volumes will be equal: So, h = 6.33 cm	× 16 ² × h = 4864/3 h = 19/3 = 6.33

Question 64 :

Study the pattern in the following series and identify which figure from the answer figures will follow next.

Difficulty : Moderate

Options :

- 1.5
- 2. 2
- 3.3
- 4.1

Solution :

The correct answer is option 1 i.e. 5

Understanding

Average Time : 212 Seconds



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Logic: The figure is rotating by 45 degree anticlockwise in each step with introduction of new element each time in place of one of the dots.

Next figure will be:



Question 65: Pressure \times Area = ?

Difficulty : Moderate

Options :

- 1. Thrust
- 2. Inertia
- 3. Momentum
- 4. Volume

Solution :

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

What is Thrust?	 Thrust: Force exerted by an object perpendicular to the surface is called thrust. Pressure: Force exerted by any object per unit area is called pressure. Hence, Thrust = Pressure × Area
-----------------	---

Question 66 :

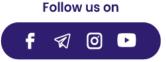
The AIADMK party is a regional political party of which state?

Difficulty : Moderate

Options:

Average Time : 57 Seconds

Average Time : 56 Seconds



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Karnataka

- 2. Telangana
- 3. Tamil Nadu
- 4. Andhra Pradesh

Solution :

The correct answer is option 3 i.e. Tamil Nadu.

AIADMK party:	 It is an Indian regional political party in the state of Tamil Nadu and in the union territory of Puducherry. AIADMK is a Dravidian party founded by M. G. Ramachandran. President: E. Madhusudhanan
------------------	--

Average Time : 45 Seconds

Question 67:

In tissue the cells are widely spaced.

Difficulty : Moderate

Options:

- 1. Tendons
- 2. Cartilage
- 3. Bone
- 4. Ligament

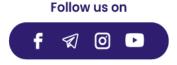
Solution :

The correct answer is option 2 i.e. Cartilage.

What is Cartilage?	 Cartilage is an important structural component of the body. It is a firm tissue but is softer and much more flexible than bone. Cartilage is a connective tissue found in many areas of the body. Cartilage is made up of specialized cells called chondrocytes.
--------------------	---

Question 68:

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Ravi sold goods for Rs. 6250 and made a profit of 25% in the process. What would have been his profit percent if he had sold the same goods for Rs. 6000?

Difficulty : Moderate

Average Time : 66 Seconds

- **Options :**
 - 1. 10%
 - 2. 15%
 - 3. 20%
 - 4. 5%

Solution :

Correct Answer is option 3 i.e. 20%

Understanding	Application	Calculation
When SP = Rs. 6250 Profit = 25%	Hence, CP = Rs. 5000	<mark>6250/1.2</mark> 5 5000
Now, CP = Rs. 5000 SP = Rs. 6000	So, Profit = [SP – CP]/CP × 100 = 20%	[(6000 - 5000)/5000] × 100 100/5 = 20

Question 69 :

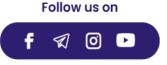
The diagram shows the force field produced by a current-carrying wire. Name the force field.

Difficulty : Moderate

Average Time : 185 Seconds

Options :

- 1. Electrostatic field
- 2. Magnetic field
- 3. Electromagnetic field



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Static field

Solution :

Magnetic field

Question 70:

The SI unit of thrust is

Difficulty : Moderate

Options :

- 1. Pascal
- 2. Ohm
- 3. Newton
- 4. Joule

Solution :

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

 Thrust is a reaction force described quantitatively by Newton's third law. When a system expels or accelerates mass in one direction, the accelerated mass will cause a force of equal magnitude but opposite direction on that system. Force, and thus thrust, is measured using the SI unit
in Newton.

Question 71:

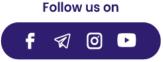
Which of the following numbers will have an even number of factors?

Difficulty : Moderate

Options :

- 1. 16900
- 2. 52900
- 3. 30000

Average Time : 64 Seconds



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Average Time : 27 Seconds

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Solution :

Correct Answer is option 3 i.e. 30000

Application	Calculation
$16900 = 13^2 \times 5^2 \times 2^2$	$(2 + 1) \times (2 + 1) \times (2 + 1)$
Number of factors = 27	3 × 3 × 3 = 27
$52900 = 23^2 \times 5^2 \times 2^2$	$(2 + 1) \times (2 + 1) \times (2 + 1)$
Number of factors = 27	3 × 3 × 3 = 27
$30000 = 3 \times 5^4 \times 2^4$	$(1 + 1) \times (4 + 1) \times (4 + 1)$
Number of factors = 50	2 × 5 × 5 = 50
$36100 = 19^2 \times 5^2 \times 2^2$	$(2 + 1) \times (2 + 1) \times (2 + 1)$
Number of factors = 27	3 × 3 × 3 = 27
Hence, the number 30000 will have even number of factors.	

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Question 72 :

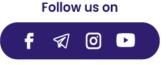
Read the given statement(s) and conclusions carefully. Assuming that the information in the statement(s) is true, even if they appear to be at variance with commonly known facts, select which of the conclusions logically follow(s) from the statement(s) beyond reasonable doubt. Statements: All crayons are pens. All pens are nibs Conclusions: (I) All crayons are nibs (II) All nibs are crayons

Average Time: 255 Seconds

Difficulty : Moderate

Options :

- 1. Only II follows
- 2. Only I follows



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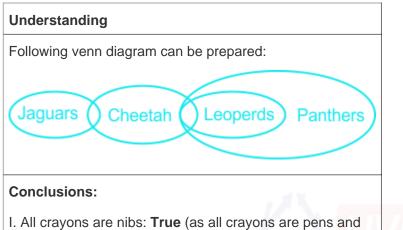


Both I and II follow

4. Neither I nor II follows

Solution :

The correct answer is option 2 i.e. Only I follows.



all pens are nibs)

II. All nibs are crayons: False (Possible but not true.)

Hence, Only I follows.

Question 73:

Who among the following is known as 'The Guardian of Public Purse'?

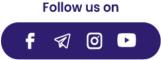
Difficulty : Moderate

Options :

- 1. Attorney General
- 2. Comptroller & Auditor General
- 3. Chief minister
- 4. Prime minister

Solution : The correct answer is option 2 i.e. Comptroller & Auditor General.

Average Time : 59 Seconds



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Comptroller & Auditor General:	 It is an authority, established by Article 148 of the Constitution of India, which audits all receipts and expenditure of the Government of India and the state governments, including those of bodies and authorities substantially financed by the government. The current CAG of India is Rajiv Mehrishi. The CAG is ranked 9th and enjoys the same status as a judge of Supreme Court of India in Indian order of precedence.
-----------------------------------	--

Question 74 :

...... tissue is found beneath the skin, around the kidneys and between the internal organs.

Difficulty : Moderate

Options :

- 1. Ligament
- 2. Areolar
- 3. Tendons
- 4. Adipose

Solution :

The correct answer is option 4 i.e. Adipose.

What is Adipose?	 Adipose tissue, or fatty tissue, connective tissue consisting mainly of fat cells, specialized to synthesize and contain large globules of fat, within a structural network of fibres. It is found mainly under the skin but also in deposits between the muscles, in the intestines and in their membrane folds, around the heart.
------------------	--

Question 75 :

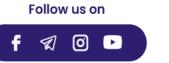
Mass / Volume =

Difficulty : Moderate

Options :

Average Time : 60 Seconds

Average Time : 76 Seconds



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Pressure

- 2. Area
- 3. Density
- 4. Force

Solution :

The correct answer is option 3 i.e. Density.

What is Density?	 Density is a measure of mass per volume. The average density of an object equals its total mass divided by its total volume. An object made from a comparatively dense material (such as iron) will have less volume than an object of equal mass made from some less dense substance (such as water).
------------------	--

Question 76 :

The property of metals wherein they can be beaten into thin sheets is called:

Difficulty : Moderate

Average Time : 65 Seconds

Options :

- 1. expansion
- 2. malleability
- 3. ductility
- 4. conduction

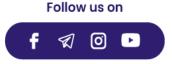
Solution :

The correct answer is option 2 i.e. malleability.

What is malleability?	 Malleability is a substance's ability to deform under pressure (compressive stress). If malleable, a material may be flattened into thin sheets by hammering or rolling without breaking.
-----------------------	--

Question 77 :

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In the figure given above, AF is a tangent to the circle at E, CDE= 80° and m(BC) = m(BE). What is the measure of BEA ?

Difficulty : Moderate

Options :

- 1. 30°
- 2. 45°
- 3. 40°
- 4. 35°

Solution :

Correct Answer is option 3 i.e. 40°

Understanding	Application
AF is a tangent to the circle at E And CDE = 80°	CEA = CDE = 80° (Alternate segment theorem)
CDEB is a cyclic quadrilateral.	So, CBE = 180 – CDE CBE = 180 – 80 = 100°
m(BC) = m(BE)	So, BEC = BCE = (180 - 100)/2 = 40°
	BEA = CEA - CEB BEA = 80 - 40 = 40°

Question 78:

Average Time : 62 Seconds

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Who has played the lead role in the movie 'Dangal' released in 2016?

Difficulty : Moderate

Options :

- 1. Akshay Kumar
- 2. Shah Rukh Khan
- 3. Aamir Khan
- 4. Raj Kumar Rao

Solution :

The correct answer is option 3 i.e. Aamir Khan.

- Lead role: Amir Khan
- Director: Nitesh Tiwari
- It is based on the Phogat family, Aamir Khan stars as Mahavir Singh Phogat, an amateur wrestler who trains his daughters Geeta and Babita to become India's first world-class female wrestlers.



Question 79 :

You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question. Question: There are 6 baskets in a supermarket that are used to load and unload commodity. All have been filled with tins of 2 different sizes and shapes. In total, how many tins have been loaded in the baskets? Statements: 1. The shape of 6 tins is such that in one basket, only 2 can fit. 2. The tins contain processed sauce

Difficulty : Moderate

Options:

Average Time : 65 Seconds

2. Statement 1 alone is sufficient

3. Statement 2 alone is sufficient

1. The statements are not sufficient

4. Statement 1 and 2 together are necessary

Solution :

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Average Time : 208 Seconds







Correct Answer is option 1 i.e. The statements are not sufficient.

Understanding	Application
Question:	Statements:
There are 6 baskets in a supermarket that are used to load and unload commodity. All have been filled with tins of 2 different sizes and shapes. In total, how many tins have been loaded in the baskets?	 The shape of 6 tins is such that in one basket, only 2 can fit. (It only confirms that 3 baskets are full) The tins contain processed sauce. (Not useful as it does not matter what is inside the tins) Hence, number of tins in all the baskets can't be determined.
	Hence, The statements are not sufficient.

Question 80 :

Non-metals are generally more electronegative due to their:

Difficulty : Moderate

Average Time : 135 Seconds

Options :

- 1. large number of electrons.
- 2. smaller atomic radii
- 3. smaller atomic number.
- 4. smaller ionization energy.

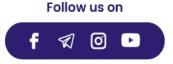
Solution :

The correct answer is option 2 i.e. smaller atomic radii.

- The tendency of non-metals to withdraw bonding electrons towards itself is called electronegative character.
- In general non-metals with lesser number of electrons than the required electrons in the valence shell are tend to show more electronegative in nature.

Question 81 :

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Select the option that is related to the third term in the same way as the second term is related to the first term. Alight : Descend : : House :?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

- 1. Pound
- 2. Home
- 3. Hug
- 4. Hen

Solution :

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

Understanding	Application
Alight: Descend : : House :?	Similarly,
Here, Alight means to descend from a train, bus, or other form of transport.	Home is also called House.
Hence, these two are synonyms.	

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Question 82 :

Find out the two signs that need to be switched for the equation to be equated. $5 + 6 \times 3 + 2 = (1)$

Difficulty : Moderate

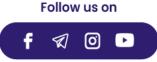
Options :

- 1. × & +
- 2. & ÷
- 3. ÷ & ×
- 4. + &

Solution :

The correct answer is **option 3 i.e. ÷ & ×**

Average Time : 71 Seconds



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Understanding	Application
$5 + 6 \times 3 - 4 \div 2 = (1)$ to be true.	Interchanging $\div \& \times$ 5 + 6 \div 3 – 4 × 2
We need to check with the options.	= 5 + 2 - 8 = -1
	Hence, $\div \& \times$ will be interchanged to make the equation correct.

Question 83:

Consider the following statement and decide which of the conclusions logically follows from the statements. Statements: If you're a good computer programmer, then we definitely have a job for you. Conclusions: 1. Good computer programmers are never jobless. 2. We are in need of a good computer programmer.

Difficulty : Moderate

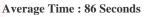
Options:

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

Solution :

The correct answer is option 2 i.e. Only conclusion 2 follows.

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





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Statements:	Conclusions:
If you're a good computer programmer, then we	1. Good computer programmers are never jobless. (It is nowhere mentioned)
definitely have a job for you.	2. We are in need of a good computer programmer.(Definitely we are in need that is why we are offering a job to good computer programmer)
	Hence, Only conclusion 2 follows.

Question 84 :

The royal city at Fatehpur Sikri, was built by Mughal Emperor in honour of Sufi saint Shaikh Salim Chishti.

Difficulty : Moderate

Options :

- 1. Aurangzeb
- 2. Humayun
- 3. Shah Jahan
- 4. Akbar

Solution :

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

The royal city at Fatehpur	 Fatehpur Sikri is a town in the Agra District of Uttar	
Sikri:	Pradesh, India.	
	 The city itself was founded as the capital of Mughal Empire in 1571 by Emperor Akbar. Akbar held the Sufi in such high regard that he had a great city Fatehpur Sikri built around his camp. 	

Question 85 :

The kinetic energy acquired by a mass (m) in traveling distance starting from rest under the action of constant force is directly proportional to:

Difficulty : Moderate

Average Time : 67 Seconds

Options :

Page No: 62



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Average Time : 82 Seconds





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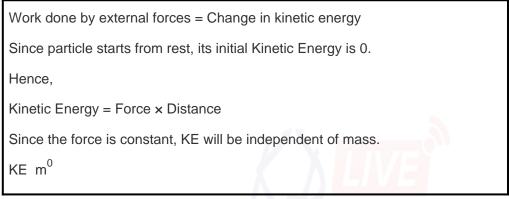


1/m

- 2. m^o
- 3. m
- 4. 1/m

Solution :

The correct answer is **option 2** i.e. **m**⁰



Question 86 :

Starting from point O facing West a man walks 4 km to reach point A. He turns right, walks 4 km and reaches point B. Then, he turns right, walks 4 km and reaches point C. He turns right, walks 3 km and reaches point D. He turns left, walks 4 km and reaches point E. Then, he turns right, walks 5 km and reaches point F. At point F, the man is facing direction.

Difficulty : Moderate

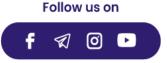
Options:

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

Solution : Correct Answer is option 2 i.e. South

Understanding	Application
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Average Time : 72 Seconds





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Starting from point O facing West a man walks 4 km to reach point A. He turns right, walks 4 km and reaches point B. Then, he turns right, walks 4 km and reaches point C. He turns right, walks 3 km and reaches point D. He turns left, walks 4 km and reaches point E. Then, he turns right, walks 5 km and reaches point F.

Following diagram represents the scenario: Hence, At point F, the man is facing South direction. 'ds

Question 87:

Who is termed as the 'Plastic Man of India', who has found a way to reuse plastic waste and make durable roads?

Difficulty : Moderate

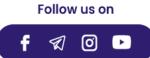
Options :

- 1. Rajagopalan Vasudevan
- 2. Rajagopalan\Thruganantliam
- 3. Artinachalani Muruganantham
- 4. Anmachalain Vasudevan

Solution :

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

Average Time : 115 Seconds



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 Rajagopalan Vasudevan, is an Indian scientist who has worked mainly in waste management. He is currently a professor in Thiagarajar College of Engineering. He developed an innovative method to reuse plastic waste to construct better, more durable and very cost- effective roads. He was awarded India's fourth highest civilian honour Padma Shri in 2018.

Question 88 :

Choose the mirror image for the following figure:

Difficulty : Moderate

Options :

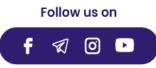
1	A	

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

Solution :

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

Concept	Understanding



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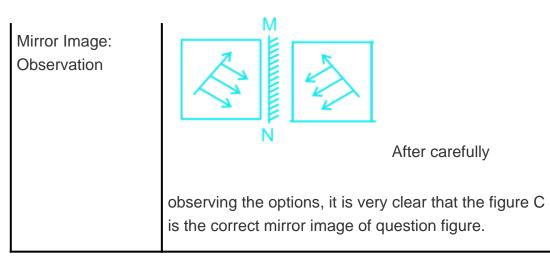
Average Time : 54 Seconds





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Question 89:

Astronauts in space communicate with each other by radio links because

Difficulty : Moderate

Options:

- 1. sound waves can't travel in space
- 2. sound waves have low frequency
- 3. sound waves travel slowly in space
- 4. sound waves travel quickly in space

Solution :

The correct answer is **option 1** i.e. **sound waves can't travel in space**.

- Space being an almost perfect vacuum does not allow sound to travel and be heard by the ears.
- As such, astronauts communicate with each other in space when they are spacewalking through the use of radio waves.
- Radio wave signal are sent to their headsets which then translates the signal into the form of sound.

Question 90:

Genetic information is carried by long chains of molecules. What are these molecules called?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

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Average Time : 78 Seconds



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Phosphates

- 2. Nitrogenous Bases
- 3. RNA
- 4. Nucleotides

Solution :

The correct answer is option 4 i.e. Nucleotides.

Nucleotides:	 Nucleotides are molecules consisting of a nucleoside and a phosphate group. They are the basic building blocks of DNA and RNA.
	 DNA (or deoxyribonucleic acid) is the molecule that carries the genetic information in all cellular forms of life and some viruses. It belongs to a class of molecules called the nucleic acids, which are polynucleotides - that is, long chains of nucleotides.

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Question 91 :

Who among the following approved the procurement of 111 utility helicopters for the Indian Navy at a cost of over Rs. 21,000 crores?

Difficulty : Moderate

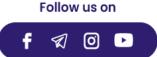
Average Time : 81 Seconds

Options :

- 1. Defence Acquisition Council
- 2. Defence Procurement Commission
- 3. Defence Purchase Association
- 4. Defence Dealers Association

Solution :

The correct answer is option 1 i.e. Defence Acquisition Council.



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- Defence Ministry approved procurement of 111 utility helicopters for the Navy at a cost of over Rs 21,000 crore on 25th Aug 2018.
- The decisions were taken at a meeting of the Defence Acquisition Council (DAC)

Defence Acquisition Council:

- The Defence Acquisition Council is the highest decision-making body in the Defence Ministry for deciding on new policies and capital acquisitions for the three services (Army, Navy and Air Force) and the Indian Coast Guard.
- The Minister of Defence is the Chairman of the Council.

Question 92:

Find the next term in the following series. 24XW23, 22VU21,?

Difficulty : Moderate

Options:

- 1. 20RT19
- 2. 20TS19
- 3. 20TR19
- 4. 20ST19

Solution :

The correct answer is option 2 i.e. 20TS19.

Understanding	Application
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Average Time : 76 Seconds





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	24XW23, 22VU21, ?
	Here,
Logic:	24 - 2 = 22 - 2 = 20
Both numbers and alphabets are moved	$\begin{array}{c} X - 2 = V - 2 = \\ T \end{array}$
backward by 2 in each step.	W – 2 = U – 2 = S
	23 – 2 = 21 – 2 = 19
	Hence, 20TS19 is the answer.

Question 93:

Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement. Statement: Some jaguars are cheetahs, Some cheetahs are leopards. All leopards are panthers. Conclusion: 1. All leopards are jaguars. 2. Some panthers are cheetahs.

Difficulty : Moderate

Options :

- 1. Only conclusion 2 follows
- 2. Only conclusion 1 follows
- 3. Either 1 or 2 follows
- 4. Both 1 and 2 follows

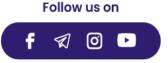
Solution :

The correct answer is option 1 i.e. Only conclusion 2 follows.

Understanding

Average Time : 59 Seconds





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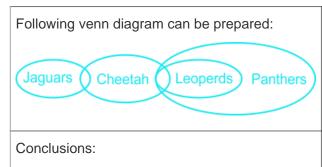
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I. All leopards are jaguars: False (Possible but not true)

II. Some panthers are cheetahs: True (some Panthers that are leopards are definitely cheetahs.)

Hence, Only conclusion 2 follows.

Question 94 :

Recently in 2018, assembly elections took place in which of the following states?

Difficulty : Moderate

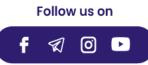
Options :

- 1. Meghalaya
- 2. Gujarat
- 3. Assam
- 4. West Bengal

Solution :

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

Average Time : 59 Seconds



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Meghalaya Assembly election:	The Meghalaya Legislative Assembly election was held on 27 February 2018 to elect 59 of 60 members to the Meghalaya Legislative Assembly, with the results declared on 3 March.
	Capital: Shillong
	Governor: R. N. Ravi
	Chief minister: Conrad Sangma (National People's Party)

Question 95 :

Four numbers. a, b, c and d, are such that their overall average is 26.5. The average of a and b is 20. The average of c and d is:

Average Time : 69 Seconds

Difficulty : Moderate

Options :

- 1. 35.5
- 2. 31.5
- 3. 33
- 4. 32.5

Solution :

Correct Answer is option 3 i.e. 33

Understanding	Application	Calculation
The average of a and b is 20	So, a + b = 40	20 × 2 = 40
Average of a, b, c and d is 26.5	So, a + b + c + d = 106	26.5 × 4 = 106



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Now, c + d = 66	106 - 40 = 66
So,	66/2 = 33
Average of c and d = 33	

Question 96 :

A solid metallic hemisphere with radius r is melted and cast into a solid right circular cone with the radius of the base = r. What is the ratio of their curved surface areas?

Difficulty : Moderate

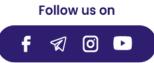
Options :

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

Solution :

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

Understanding	Application
Hemisphere with radius r is melted and cast into a circular cone with the radius of the base = r Suppose height of cone = h	The volumes must be equal: $2/3 \times r^3 = /3 \times r^2h$ r/h = 1/2



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Now, Slant height of cone = I	$I = (r^{2} + h^{2})$ Since, r/h = 1/2 $I = (r^{2} + 4r^{2})$ I = r5
Curved surface areas of Hemisphere = $2r^2$ And Curved surface areas of cone = rl	Hence, Ratio = $2r^2$: rl $2r^2$: r^25 2/5

Question 97:

What is the missing term in the series? YB25, WD23,, SH19

Difficulty : Moderate

Options :

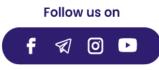
- 1. UG21
- 2. UF21
- 3. UF20
- 4. UG20

Solution :

The correct answer is option 2 i.e. UF21

Concept Application

Average Time: 224 Seconds



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Logic:	YB25, WD23,, SH19
1st letter is moved	Here,
backward by 2.	Y - 2 = W - 2 = U - 2 = S
2nd letter is moved forward by 2.	B + 2 = D + 2 = F + 2 = H
Number is decreased by 2.	25 - 2 = 23 - 2 = 21 - 2 = 19
Number is decreased by 2.	Hence,
	Missing term = UF21

Question 98:

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s). Statement: Recent research says listening to specific types of frequencies have a positive effect on human brain and it aids in healing. Conclusions: I. Human brain responds to music. II. Certain frequencies are used to heal diseases in human body.

Average Time : 91 Seconds

Difficulty : Moderate

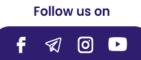
Options:

- 1. Both the conclusions follow.
- 2. Neither conclusion follows.
- 3. Only conclusion I follows.
- 4. Only conclusion II follows

Solution :

The correct answer is option 4 i.e. Only conclusion II follows.

Understanding	Application



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Statement:	Conclusions:
Recent research says listening to specific types of frequencies have a	I. Human brain responds to music. (Not follows as nothing is mentioned about the music here.)
positive effect on human brain and it aids in healing.	II. Certain frequencies are used to heal diseases in human body. (Follows as it is clearly written in the statement that specific types of frequencies aid in healing)
	Hence, Only conclusion II follows.

Question 99 :

Given is a question followed by two arguments numbered I and II. Read the question and decide which of the arguments is strong with respect to the question. Question: Should shifting agriculture be practiced? Arguments: I. No. It is not a worthy practice. II. Yes. When compared to modern methods of farming, it is less expensive.

Difficulty : Moderate

Options :

- 1. Only argument II is strong.
- 2. Only argument I is strong.
- 3. Neither argument I nor II is strong.
- 4. Either argument I or II is strong.

Solution :

The correct answer is **option 1 i.e. only argument II is strong.**

Understanding	Application
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Average Time : 96 Seconds



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Question:	Arguments:
Should shifting agriculture be practiced?	 No. It is not a worthy practice. (Not strong as no reason is mentioned with it)
	II. Yes. When compared to modern methods of farming, it is less expensive. (Strong with supporting reason)
	Hence, Only argument II is strong.

Question 100 :

Which state cricket team has won the 2018 Vijay Hazare trophy?

Difficulty : Moderate

Options:

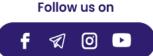
- 1. Saurashtra
- 2. Rajasthan
- 3. Odisha
- 4. Karnataka

Solution :

The correct answer is option 4 i.e. Karnataka.

2018 Vijay Hazare trophy:	 The 2017–18 Vijay Hazare Trophy was the 16th season of the Vijay Hazare Trophy, a List A cricket tournament in India. It was contested by the 28 domestic cricket teams of India. Dates: 5 Feb 2018 – 26 Feb 2018 Champion: Karnataka cricket team Location: India Second: Saurashtra cricket team Administrator: Board of Control for Cricket in India
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Analysis

The analysis of Rrb Group D CBT - 1 Previous Year Question Paper held on 2018-10-12 in the Afternoon exam is as follows:

- 1. 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. 19 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

1. GK - 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



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and move to the next question.

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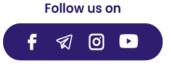
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