Roll Number	
Candidate Name	
Test Center Name	Surendra Institute of Engineering and Management
Test Date	18/09/2022
Test Time	5:00 PM - 6:30 PM
Subject	Level 1

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **Level 1**

Q.1 The value of $2405 \div 13 \times 6 + 35$ is:

Ans ✗ 1. 1035

✗ 2. 1305

✗ 3. 1235

✓ 4. 1145

Question ID : **75189711184**
Option 1 ID : **75189744733**
Option 2 ID : **75189744734**
Option 3 ID : **75189744736**
Option 4 ID : **75189744735**
Status : **Answered**
Chosen Option : **4**

Q.2 Which of the following committees was constituted by RBI to study issues and concerns in the Micro Finance Institutions sector?

Ans ✗ 1. Malhotra committee

✗ 2. Kelkar committee

✓ 3. Y H Malegam committee

✗ 4. Abid Hussain committee

Question ID : **7518979407**
Option 1 ID : **75189737628**
Option 2 ID : **75189737626**
Option 3 ID : **75189737625**
Option 4 ID : **75189737627**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Each of the digits in the number 5384972 is arranged in ascending order from left to right. The position of how many digits will remain unchanged as compared to that in the original number?

Ans ✗ 1. Two

✔ 2. One

✗ 3. Three

✗ 4. None

Q.4 As of August 2022, the objective of the Maulana Azad Fellowship Scheme (MANF) is to provide _____ fellowships in the form of financial assistance to students from six notified minority communities, namely Buddhist, Christian, Jain, Muslim, Parsi and Sikh, notified by the Central Government, to pursue M.Phil. and Ph.D.

Ans ✗ 1. 3-year

✗ 2. 2-year

✔ 3. 5-year

✗ 4. 4-year

Q.5 Punit was driving a car towards the north direction, then he turned to his left and drove 10 km. Again, he turned left and drove a distance of 20 km, and further took a left turn and drove a distance of 10 km. His present location is 10 km south of his starting point. How far did he drive towards the north direction initially? (All turns are 90 degree turns only)

Ans ✗ 1. 18 km

✗ 2. 20 km

✗ 3. 15 km

✔ 4. 10 km

Q.6 Each vowel in the word 'PAIR' is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. If each letter of the word thus formed is arranged in alphabetical order, which letter will be third from the right?

Ans

  ✗ 1. Q

  ✗ 2. B

  ✔ 3. J

  ✗ 4. O

Question ID : **75189711532**
Option 1 ID : **75189746128**
Option 2 ID : **75189746125**
Option 3 ID : **75189746126**
Option 4 ID : **75189746127**
Status : **Answered**
Chosen Option : **2**

Q.7 Let Chennai and Trivandrum be two stations 690 km apart. A train starts from Chennai at 8:00 p.m. and travels towards Trivandrum at a speed of 75 km/h. Another train starts from Trivandrum at 9:00 p.m. and travels towards Chennai on the parallel track at a speed of 60 km/h. At what time will they meet?

Ans

  ✗ 1. 01:43:20 a.m.

  ✗ 2. 01:03:40 a.m.

  ✗ 3. 01:23:30 a.m.

  ✔ 4. 01:33:20 a.m.

Question ID : **75189711197**
Option 1 ID : **75189744787**
Option 2 ID : **75189744785**
Option 3 ID : **75189744786**
Option 4 ID : **75189744788**
Status : **Not Answered**
Chosen Option : **--**

Q.8 _____ was among the 7 Recipients of the 2020 Tenzing Norgay National Award for land adventure, and received the award from then President Ram Nath Kovind during the 2021 National Sports Awards function.

Ans

  ✔ 1. Priyanka Mangesh Mohite

  ✗ 2. Lt. Col. Servesh Dhadwal

  ✗ 3. Jai Kishan

  ✗ 4. Srikaanth Viswanathan

Question ID : **75189710400**
Option 1 ID : **75189741597**
Option 2 ID : **75189741599**
Option 3 ID : **75189741600**
Option 4 ID : **75189741598**
Status : **Not Answered**
Chosen Option : **--**

Q.9 An open water drum is in the form of a cylinder. The height of the drum is 7 m and its internal diameter is 21 m. Find the area (in m²) that needs to be painted if one wants to paint the inside of the drum.

Take $\pi = \frac{22}{7}$

Ans
  ✗ 1. 462

  ✗ 2. 577.5

  ✗ 3. 1155

  ✔ 4. 808.5

Question ID : **75189710027**
Option 1 ID : **75189740106**
Option 2 ID : **75189740105**
Option 3 ID : **75189740108**
Option 4 ID : **75189740107**
Status : **Answered**
Chosen Option : **1**

Q.10 A man purchased two varieties of apples at the rate of ₹2 for 3 apples and ₹1 per apple, respectively. If he purchased an equal number of apples of each variety and then sold all his apples at ₹1 per apple, what was his profit percentage?

Ans
  ✗ 1. 22%

  ✔ 2. 20%

  ✗ 3. 15%

  ✗ 4. 18%

Question ID : **7518979946**
Option 1 ID : **75189739784**
Option 2 ID : **75189739783**
Option 3 ID : **75189739781**
Option 4 ID : **75189739782**
Status : **Answered**
Chosen Option : **2**

Q.11 The average weight of 11 students is 50 kg. When the teacher's weight of 70 kg is added to the total, then the new average will be:

Ans
  ✗ 1. 50.66

  ✗ 2. 53.66

  ✗ 3. 51.36

  ✔ 4. 51.66

Question ID : **7518979272**
Option 1 ID : **75189737086**
Option 2 ID : **75189737088**
Option 3 ID : **75189737087**
Option 4 ID : **75189737085**
Status : **Answered**
Chosen Option : **4**

Q.12 Supriya, Tanmay, Umesh, Viplav and Wasim are sitting around a circular table facing the centre (but not necessarily in the same order). Supriya is the immediate neighbour of Tanmay and Wasim. Umesh is to the immediate right of Tanmay. Viplav is the immediate neighbour of Umesh and Wasim.

Who is sitting to the immediate left of Supriya?

Ans
- ✗ 1. Tanmay
- ✔ 2. Wasim
- ✗ 3. Umesh
- ✗ 4. Viplav

Question ID : **75189711422**
Option 1 ID : **75189745685**
Option 2 ID : **75189745688**
Option 3 ID : **75189745686**
Option 4 ID : **75189745687**
Status : **Answered**
Chosen Option : **2**

Q.13 Which of the following are bisexual flowers?

Ans
- ✗ 1. Watermelon and papaya
- ✔ 2. Hibiscus and mustard
- ✗ 3. Mustard and watermelon
- ✗ 4. Papaya and hibiscus

Question ID : **75189710256**
Option 1 ID : **75189741021**
Option 2 ID : **75189741023**
Option 3 ID : **75189741022**
Option 4 ID : **75189741024**
Status : **Answered**
Chosen Option : **2**

Q.14 In the year 2022, which of the following chess champions was beaten by a 16-year old Indian chess player Rameshbabu Praggnanandhaa?

Ans
- ✗ 1. Anatoly Karpov
- ✗ 2. Garry Kasparov
- ✗ 3. Bobby Fischer
- ✔ 4. Magnus Carlsen

Question ID : **75189710512**
Option 1 ID : **75189742045**
Option 2 ID : **75189742048**
Option 3 ID : **75189742046**
Option 4 ID : **75189742047**
Status : **Answered**
Chosen Option : **4**

Q.15 If the area of a square is 11025 cm^2, then the length of its diagonal is:

Ans ✔ 1. $105\sqrt{2}$ cm

✘ 2. $125\sqrt{2}$ cm

✘ 3. $135\sqrt{2}$ cm

✘ 4. $115\sqrt{2}$ cm

Question ID : **75189711212**
Option 1 ID : **75189744846**
Option 2 ID : **75189744847**
Option 3 ID : **75189744848**
Option 4 ID : **75189744845**
Status : **Answered**
Chosen Option : **1**

Q.16 Considering Fleming's right hand rule, the thumb indicates:

Ans ✘ 1. the magnetic force

✘ 2. the induced EMF

✔ 3. the motion of the conductor

✘ 4. the magnetic flux

Question ID : **75189711378**
Option 1 ID : **75189745510**
Option 2 ID : **75189745512**
Option 3 ID : **75189745509**
Option 4 ID : **75189745511**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.17 Change in savings ÷ Change in Income = _____.

Ans ✔ 1. Marginal propensity to save

✘ 2. Marginal propensity to consume

✘ 3. Average propensity to save

✘ 4. Average propensity to consume

Question ID : **7518978544**
Option 1 ID : **75189734174**
Option 2 ID : **75189734175**
Option 3 ID : **75189734173**
Option 4 ID : **75189734176**
Status : **Not Answered**
Chosen Option : **--**

Q.18 Simplify the given expression.

$$[13 - (-2) \times \{6 - (7 - 3)\}] \div [4 \times \{5 + (-2) \times (-6)\}]$$

Ans

✓ 1. $\dfrac{1}{4}$

✗ 2. $\dfrac{7}{34}$

✗ 3. $-\dfrac{17}{68}$

✗ 4. $\dfrac{-1}{3}$

Q.19 Which of the following can change sex, indicating that sex is not genetically determined?

Ans

✗ 1. Frog

✗ 2. Snake

✗ 3. Fish

✓ 4. Snail

Q.20 This question is based on the five, three-digit numbers given below.

465 638 359 987 563

If the positions of the first two digits in each number are reversed, then the difference between the first digit of the greatest number and the first digit of the lowest number is equal to:
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

Ans

✗ 1. 7

✗ 2. 6

✗ 3. 4

✔ 4. 5

Question ID : **7518979006**
Option 1 ID : **75189736021**
Option 2 ID : **75189736022**
Option 3 ID : **75189736024**
Option 4 ID : **75189736023**
Status : **Answered**
Chosen Option : **4**

Q.21 Two wires, A and B, are made of the same material, but the length of A is 3 times that of B, and the cross-section of A is $\frac{1}{4}$ th of that of B. The resistance of A is:

Ans

✗ 1. 6 times that of B

✗ 2. 9 times that of B

✔ 3. 12 times that of B

✗ 4. 3 times that of B

Question ID : **75189711327**
Option 1 ID : **75189745306**
Option 2 ID : **75189745307**
Option 3 ID : **75189745308**
Option 4 ID : **75189745305**
Status : **Answered**
Chosen Option : **3**

Q.22 Taruni drives 65 km towards the east to reach city park. Then she turns right and drives another 85 km, then turns left and drives another 53 km to reach the metro station. In which direction is she facing now? (All turns are 90 degree turns only)

Ans

✗ 1. South

✔ 2. East

✗ 3. West

✗ 4. North

Question ID : **75189711587**
Option 1 ID : **75189746348**
Option 2 ID : **75189746345**
Option 3 ID : **75189746346**
Option 4 ID : **75189746347**
Status : **Answered**
Chosen Option : **2**

Q.23 Three statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
Some blues are greens.
All greens are emeralds.
All emeralds are gems.

Conclusions:
I. Some blues are gems.
II. Some gems are greens.

Ans ✗ 1. Neither conclusion I nor II follows

✗ 2. Only conclusion II follows

✗ 3. Only conclusion I follows

✔ 4. Both conclusions I and II follow

Q.24 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons. The circle represents 'professors', the square represents 'poets', and the triangle represents 'women'. How many professors are there who are women and also poets?
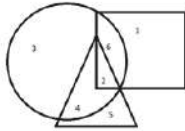
Ans ✗ 1. 1

✔ 2. 2

✗ 3. 3

✗ 4. 4

Q.25 The tenure of the Village Panchayat is for how many years?

Ans
- ✗ 1. 2
- ✗ 2. 3
- ✓ 3. 5
- ✗ 4. 4

Question ID : **75189710506**
Option 1 ID : **75189742021**
Option 2 ID : **75189742022**
Option 3 ID : **75189742024**
Option 4 ID : **75189742023**
Status : **Answered**
Chosen Option : **3**

Q.26 What is the name of India's first indigenous aircraft carrier?

Ans
- ✗ 1. INS Vishakhapatnam
- ✗ 2. INS Virat
- ✓ 3. INS Vikrant
- ✗ 4. INS Vijaya

Question ID : **75189710525**
Option 1 ID : **75189742099**
Option 2 ID : **75189742098**
Option 3 ID : **75189742100**
Option 4 ID : **75189742097**
Status : **Answered**
Chosen Option : **3**

Q.27 Convert $0.2\overline{6}$ into a proper fraction.

Ans
- ✗ 1. $\dfrac{5}{17}$
- ✗ 2. $\dfrac{7}{33}$
- ✗ 3. $\dfrac{8}{21}$
- ✓ 4. $\dfrac{4}{15}$

Question ID : **75189711187**
Option 1 ID : **75189744746**
Option 2 ID : **75189744747**
Option 3 ID : **75189744748**
Option 4 ID : **75189744745**
Status : **Answered**
Chosen Option : **4**

Q.28 Nuakhai is an agricultural or harvesting festival mainly observed by people of which state in India?

Ans ✗ 1. Madhya Pradesh

✗ 2. Manipur

✓ 3. Odisha

✗ 4. Kerala

Question ID : **75189710430**
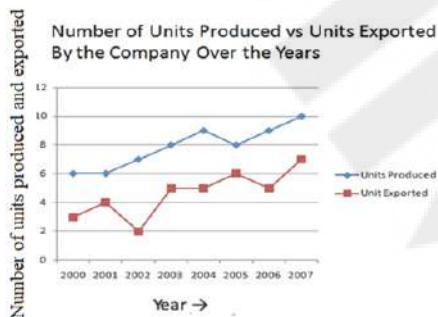Option 1 ID : **75189741720**
Option 2 ID : **75189741719**
Option 3 ID : **75189741717**
Option 4 ID : **75189741718**
Status : **Answered**
Chosen Option : **3**

Q.29 The following graph shows the number of units produced and number of units exported by a company over the years.
Study the graph and answer the question that follows.

Number of Units Produced vs Units Exported By the Company Over the Years

During which year did the units produced decline?

Ans ✗ 1. 2005 - 2006

✗ 2. 2000 - 2001

✗ 3. 2001 - 2002

✓ 4. 2004 - 2005

Question ID : **75189711650**
Option 1 ID : **75189746599**
Option 2 ID : **75189746597**
Option 3 ID : **75189746600**
Option 4 ID : **75189746598**
Status : **Not Answered**
Chosen Option : **--**

Q.30 What percentage of 1 is $6\frac{3}{4}$?

Ans   ✗ 1.   575

     ✗ 2.   625

     ✔ 3.   675

     ✗ 4.   525

Question ID : **75189710637**
Option 1 ID : **75189742547**
Option 2 ID : **75189742545**
Option 3 ID : **75189742548**
Option 4 ID : **75189742546**
Status : **Answered**
Chosen Option : **3**

Q.31 In which of the following processes is the pyruvate converted into ethanol and carbon dioxide?

Ans   ✗ 1.   Diffusion

     ✗ 2.   Translocation

     ✔ 3.   Fermentation

     ✗ 4.   Transpiration

Question ID : **75189710159**
Option 1 ID : **75189740634**
Option 2 ID : **75189740633**
Option 3 ID : **75189740636**
Option 4 ID : **75189740635**
Status : **Answered**
Chosen Option : **4**

Q.32 Which of the following is the correct product formed by the combination reaction of calcium oxide with water?

Ans   ✗ 1.   Calcium bicarbonate

     ✔ 2.   Calcium hydroxide

     ✗ 3.   No reaction takes place

     ✗ 4.   Calcium carbonate

Question ID : **75189711862**
Option 1 ID : **75189747447**
Option 2 ID : **75189747446**
Option 3 ID : **75189747448**
Option 4 ID : **75189747445**
Status : **Answered**
Chosen Option : **2**

Q.33 The price of bananas is ₹x per kg. If the price per kg of apples is ₹5 more than the price per kg of bananas, then the price (in ₹) of 5 kg of apples and 3 kg of bananas is:

Ans
✔ 1. $8x + 25$
✗ 2. $6x + 20$
✗ 3. $8x + 20$
✗ 4. $6x + 25$

Q.34 A group of numbers/symbols is coded using letters as per the table given below and the conditions which follow. The correct combination of codes following the conditions is your answer.

Number/symbol	7	@	3	S	^	7	6	4	%	&	#	2	*	9
Code Letter	G	O	K	I	R	M	A	T	L	D	F	B	Q	O

Conditions:

(i) If the first element is a symbol and the last element is a number, the codes for these two (the first and the last elements) are to be interchanged.

(ii) If the first element is an odd number and the last element is an even number, the first and last elements are to be coded as ©.

(iii) If both the second and third elements are perfect squares, the third element is to be coded as the code for the second element.

What will be the code for '7 % # @ 4' ?

Ans
✗ 1. GLFO©
✗ 2. ©LFOT
✔ 3. ©LFO©
✗ 4. GLFOT

Q.35 A man purchased 50 dozen bananas for a certain amount. He could not sell five dozen of those bananas as they were spoiled. He sold two-thirds of the good bananas at a profit of 20% per dozen and sold the remaining good bananas at a profit of 5% per dozen. What was his loss or gain percentage in the whole transaction?

Ans ✔ 1. 3.5% gain

✘ 2. 3.5% loss

✘ 3. 2.5% loss

✘ 4. 2.5% gain

Q.36 The SAFE (SIDBI Assistance to Facilitate Emergency response against Corona Virus) scheme, launched by SIDBI (Small Industries Development Bank of India) in March 2020, provided loans at an interest rate of _____ per annum.

Ans ✘ 1. 2%

✘ 2. 4%

✔ 3. 5%

✘ 4. 3%

Q.37 Given that ΔABC and ΔADE are similar, which of the following options is necessarily true?
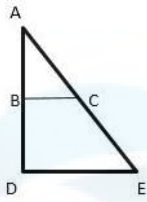
Ans

✔ 1. $\dfrac{AB}{AD} = \dfrac{BC}{DE}$

✘ 2. $\dfrac{EC}{AC} = \dfrac{AD}{DE}$

✘ 3. $\dfrac{BC}{BD} = \dfrac{CE}{DE}$

✘ 4. $\dfrac{BC}{BD} = \dfrac{AB}{AC}$

Q.38 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. EXAMPLE: 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

7 : 42 :: 9 : 54 :: 11 : ?

Ans

✘ 1. 55

✘ 2. 77

✔ 3. 66

✘ 4. 88

Q.39 In a circuit, there are five resistors each of 5 Ω, and they are connected in such a way that the resistance of the circuit is the maximum. Now this circuit is connected to a battery of 15 V. The current flowing through the circuit is:

Ans ✗ 1. 0.4 A

✗ 2. 0.9 A

✓ 3. 0.6 A

✗ 4. 0.8 A

Q.40 Which of the following statements is INCORRECT about properties of ionic compounds?

Ans ✗ 1. Ionic compounds have high melting and boiling points.

✗ 2.
Electrovalent compounds are generally soluble in water and insoluble in petrol.

✓ 3.
Ionic compounds are solids because of the weak force of attractions between positive and negative ions.

✗ 4.
Ionic compounds are generally brittle and break into pieces when pressure is applied.

Q.41 If $x + \dfrac{1}{x} = 3$, then $x^6 + \dfrac{1}{x^6}$ is:

Ans ✗ 1. 364

✗ 2. 927

✗ 3. 414

✓ 4. 322

Q.42 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

33 : 55 :: 46 : 68 :: 68 : ?

Ans
✔ 1. 90

✘ 2. 100

✘ 3. 94

✘ 4. 96

Question ID : **7518978312**
Option 1 ID : **75189733247**
Option 2 ID : **75189733248**
Option 3 ID : **75189733245**
Option 4 ID : **75189733246**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.43 Which of the following State's police introduced 'Pink Beat' patrols for enhancing the safety for women and children in public places?

Ans
✔ 1. Kerala

✘ 2. Karnataka

✘ 3. Maharashtra

✘ 4. Odisha

Question ID : **75189710530**
Option 1 ID : **75189742118**
Option 2 ID : **75189742120**
Option 3 ID : **75189742119**
Option 4 ID : **75189742117**
Status : **Not Answered**
Chosen Option : **--**

Q.44 A certain number of advocates are sitting in a row in a bar council, facing north. Piyush is an immediate neighbour of both Vinod and Taman, while Rudir is an immediate neighbour of both Taman and Biswas. Vinod is sitting at the extreme right end. There are only two advocates to the left of Biswas. If no other advocate is sitting in the row, what is the total number of advocates seated in that row?

Ans
✔ 1. Seven

✘ 2. Ten

✘ 3. Eight

✘ 4. Nine

Question ID : **75189711464**
Option 1 ID : **75189745856**
Option 2 ID : **75189745855**
Option 3 ID : **75189745853**
Option 4 ID : **75189745854**
Status : **Not Answered**
Chosen Option : **--**

Q.45 The volume of a cuboid is $5a^2 - 80b^2$. Which of the options below can be possible dimensions of the cuboid?

Ans ✗ 1. $5, 2a - b , 2a + b$

✔ 2. $5, a - 4b , a + 4b$

✗ 3. $5, a - b , a + 4b$

✗ 4. $5, 2a - b , a + 2b$

Q.46 Silver chloride turns grey in sunlight.

Which of the following is the correct explanation for the given statement?

Ans ✗ 1.

Displacement of silver chloride into silver and chlorine by light.

✔ 2.

Decomposition of silver chloride into silver and chlorine by light

✗ 3.

Displacement of silver chloride into silver oxide and chlorine by light.

✗ 4.

Decomposition of silver chloride into silver oxide and chlorine by light.

Q.47 When was Coal India Limited came into existence?

Ans ✔ 1. 1975

✗ 2. 1978

✗ 3. 1976

✗ 4. 1977

Q.48 The tissue that stores fat is called:

Ans
✗ 1. connective tissue

✗ 2. areolar tissue

✗ 3. epithelial tissue

✓ 4. adipose tissue

Q.49 An object is placed at a distance of 0.5 m in front of a converging mirror. If the focal length of the mirror is 0.2 m, then the magnification of the image is:

Ans
✗ 1. $\dfrac{4}{3}$

✗ 2. $\dfrac{1}{3}$

✓ 3. $\dfrac{2}{3}$

✗ 4. $\dfrac{3}{2}$

Q.50 C, E, K, M, O, Q and Z are sitting around a round table facing towards the center (but not necessarily in the same order). C is the immediate neighbour of Z and M. O is neither an immediate neighbour of M nor E. Q, who is second to the left of O has K and E as immediate neighbours?
Who is sitting to the immediate right of O?

Ans
✗ 1. K

✗ 2. G

✓ 3. Z

✗ 4. M

Q.51 In this question, the statement is followed by four conclusions. Find out which conclusion is true based on the given statement:

Statement: $W \leq P < S > Y = R \geq T > M$

Ans   ✗ 1. $Y \geq P$

      ✔ 2. $S > W$

      ✗ 3. $M > R$

      ✗ 4. $Y < P$

Question ID : **75189710810**
Option 1 ID : **75189743239**
Option 2 ID : **75189743238**
Option 3 ID : **75189743240**
Option 4 ID : **75189743237**
Status : **Answered**
Chosen Option : **2**

Q.52 Which Vedic God falls under the category of 'Prithivisthana'(Terrestrial God)?

Ans   ✗ 1. Vishnu

      ✔ 2. Brihaspati

      ✗ 3. Varuna

      ✗ 4. Indra

Question ID : **7518979401**
Option 1 ID : **75189737604**
Option 2 ID : **75189737601**
Option 3 ID : **75189737603**
Option 4 ID : **75189737602**
Status : **Not Answered**
Chosen Option : **--**

Q.53 Which of the following numbers will replace the question mark (?) in the given series?

6, 12, 30, 84, 246, ?

Ans   ✔ 1. 732

      ✗ 2. 763

      ✗ 3. 741

      ✗ 4. 743

Question ID : **75189711604**
Option 1 ID : **75189746414**
Option 2 ID : **75189746415**
Option 3 ID : **75189746413**
Option 4 ID : **75189746416**
Status : **Answered**
Chosen Option : **1**

Q.54 If 3 is a root of the equation $x^2 - px + 15 = 0$ and the quadratic equation $x^2 + px + q = 0$ has equal roots, then the value of q is:

Ans ✔ 1. 16

✘ 2. 12

✘ 3. 64

✘ 4. 32

Q.55 Which of the following is the longest range in the lesser Himalayas?

Ans ✘ 1. Karakoram Range

✔ 2. Pir Panjal Range

✘ 3. Zanskar Range

✘ 4. Ladakh Range

Q.56 The value of $16^3 - 12^3$ is:

Ans ✘ 1. 2388

✔ 2. 2368

✘ 3. 2378

✘ 4. 2358

Q.57 What are the chemical formulas of gypsum and plaster of Paris, respectively?

Ans

✗ 1. $CaCO_3.1/2H_2O$ and $CaCO_3.2H_2O$

✗ 2. $CaSO_4.1/2H_2O$ and $CaSO_4.2H_2O$

✔ 3. $CaSO_4.2H_2O$ and $CaSO_4.1/2H_2O$

✗ 4. $CaCO_3.2H_2O$ and $CaCO_3.1/2H_2O$

> Question ID : **75189710372**
> Option 1 ID : **75189741487**
> Option 2 ID : **75189741486**
> Option 3 ID : **75189741488**
> Option 4 ID : **75189741485**
> Status : **Answered**
> Chosen Option : **3**

Q.58 Six players, Aman, Bidya, Chahal, Druv, Elia and Flintoff, were born on different dates 1st, 2nd, 3rd, 4th, 5th and 6th of the same month. None of them were born after Druv, who was born on the date which is immediately after Elia. Only three players were born before Aman. Only two players were born between Chahal and Elia. Bidya was not born after Chahal.

Who among the following was born on 3rd?

Ans

✔ 1. Flintoff

✗ 2. Bidya

✗ 3. Aman

✗ 4. Chahal

> Question ID : **75189711454**
> Option 1 ID : **75189745815**
> Option 2 ID : **75189745813**
> Option 3 ID : **75189745816**
> Option 4 ID : **75189745814**
> Status : **Answered**
> Chosen Option : **1**

Q.59 If a : b :: b : c; c = 4a; and b = 6, find the positive value of c.

Ans

✗ 1. 7

✔ 2. 12

✗ 3. 8

✗ 4. 9

> Question ID : **7518979930**
> Option 1 ID : **75189739720**
> Option 2 ID : **75189739717**
> Option 3 ID : **75189739719**
> Option 4 ID : **75189739718**
> Status : **Answered**
> Chosen Option : **2**

Q.60 Letters are coded as numbers/symbols as per the table given below and the conditions which follow. Refer to the codes and conditions and then select the correct code for JUPITER.

Letters	A	C	P	I	T	U	E	R	J
Number/Symbol	+	8	-	6	%	@	4	9	#

Conditions:

(i) If a letter is immediately followed by a vowel, it will be coded as 7.

(ii) If a word ends with a vowel, the vowel will be coded as 3.

Ans

✗ 1. #@-6%49

✗ 2. 7@-6%49

✔ 3. 7@76749

✗ 4. 7@76%49

Q.61 If the value of the refractive index increases then:

Ans

✗ 1. deviation decreases

✔ 2. deviation in direction of light increases

✗ 3. there is no deviation in direction of light

✗ 4. light will follow curved path

Q.62 Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series.

_ T U _ R T _ S _ _ W S R T X _

Ans ✗ 1. RTUSRX

✓ 2. RSVRTS

✗ 3. RSVTRR

✗ 4. RSVRTR

Q.63 Simplify the given expression.

$$6.5 \times [22.6 \div \{14.5 + 2.8 - 4.2 \div 0.7\}]$$

Ans ✗ 1. 6.23

✗ 2. 4

✓ 3. 13

✗ 4. 8.75

Q.64 Which of the following is the respiratory organ in earthworms?

Ans ✗ 1. Gill pouches

✗ 2. Spiracles

✓ 3. Skin

✗ 4. Lungs (air sacs)

Q.65 The difference between two numbers is 26. One number is 3 times of the other. The smaller number is:

Ans
- ✗ 1. 52
- ✔ 2. 13
- ✗ 3. 26
- ✗ 4. 39

Question ID : **7518979990**
Option 1 ID : **75189739960**
Option 2 ID : **75189739957**
Option 3 ID : **75189739958**
Option 4 ID : **75189739959**
Status : **Answered**
Chosen Option : **2**

Q.66 Which of the following substances is/are NOT reabsorbed by the kidneys?

Ans
- ✗ 1. Glucose
- ✔ 2. Creatinine
- ✗ 3. Amino acids
- ✗ 4. Salts

Question ID : **7518977838**
Option 1 ID : **75189731351**
Option 2 ID : **75189731349**
Option 3 ID : **75189731350**
Option 4 ID : **75189731352**
Status : **Not Answered**
Chosen Option : **--**

Q.67 Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth, has been laid under _____ of the Fundamental Rights in the Constitution of India.

Ans
- ✗ 1. Article 16
- ✗ 2. Article 17
- ✔ 3. Article 15
- ✗ 4. Article 14

Question ID : **75189710495**
Option 1 ID : **75189741979**
Option 2 ID : **75189741980**
Option 3 ID : **75189741978**
Option 4 ID : **75189741977**
Status : **Answered**
Chosen Option : **3**

Q.68 The refractive indices of mediums 1, 2 and 3 are 1.50, 1.36 and 1.54, respectively. If the speed of light in the mediums are v_1, v_2 and v_3, respectively, which of the following relations between them is correct?

Ans
✔ 1. $v_2 > v_1 > v_3$

✘ 2. $v_1 = v_2 = v_3$

✘ 3. $v_1 > v_3 > v_2$

✘ 4. $v_3 > v_2 > v_1$

Q.69 What is $6^0 \times 4^2 \times 2^{-4}$?

Ans
✘ 1. 2

✘ 2. 4

✘ 3. 0

✔ 4. 1

Q.70 Evaluate

$$\frac{.1 \times .1 \times .1 + .02 \times .02 \times .02}{.2 \times .2 \times .2 + .04 \times .04 \times .04}$$

Ans
✘ 1. 0.0125

✘ 2. 0.25

✘ 3. 0.5

✔ 4. 0.125

Q.71 The average score of a cricketer for 10 matches is 40 runs. If the average for the first six matches is 44, then the average runs of the last four matches is:

Ans
✗ 1. 20
✗ 2. 38
✗ 3. 42
✔ 4. 34

Question ID : **75189710678**
Option 1 ID : **75189742709**
Option 2 ID : **75189742712**
Option 3 ID : **75189742710**
Option 4 ID : **75189742711**
Status : **Answered**
Chosen Option : **4**

Q.72 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

DXB : GSI :: KVR : NQY :: JNP : ?

Ans
✔ 1. MIW
✗ 2. NIW
✗ 3. MHW
✗ 4. MIV

Question ID : **75189710901**
Option 1 ID : **75189743604**
Option 2 ID : **75189743602**
Option 3 ID : **75189743603**
Option 4 ID : **75189743601**
Status : **Answered**
Chosen Option : **1**

Q.73 A sum of money is to be distributed among the partners A, B and C in the proportion of $3 : 2 : 1\frac{1}{3}$. If A gets ₹1,500 more than B, then C's share is:

Ans
✗ 1. ₹2,500
✗ 2. ₹3,750
✔ 3. ₹2,000
✗ 4. ₹3,400

Question ID : **75189711191**
Option 1 ID : **75189744762**
Option 2 ID : **75189744761**
Option 3 ID : **75189744763**
Option 4 ID : **75189744764**
Status : **Answered**
Chosen Option : **3**

Q.74 Which of the following is a quadratic equation written in standard form?

Ans ✔ 1. $5x^2 + 3x - 1 = 0$

✘ 2. $5x^2 + 3 = \frac{1}{x}$

✘ 3. $x^{-2} + 7x = 8$

✘ 4. $x^3 + 5x^2 + 3 = x^4$

Q.75 Out of his total monthly salary, Mohan spends 20% on house rent and 50% of the rest is his total household expenditure. If he saves ₹10,600, then his total monthly salary is:

Ans ✘ 1. ₹24,500

✘ 2. ₹25,000

✘ 3. ₹27,000

✔ 4. ₹26,500

Q.76 Refer to the following number series and answer the question that follows.

(Left) 2 5 4 3 3 4 5 2 4 6 5 1 1 4 6 7 4 5 8 7 3 1 5 7 (Right)

If every odd number in the above series is dropped, which number would appear at the eighth place from the right?

Ans ✔ 1. 4

✘ 2. 8

✘ 3. 2

✘ 4. 6

Q.77 Which statement shows interaction of an abiotic component with a biotic component in an ecosystem?

Ans ✗ 1. Tap water running into a stream

✓ 2. An earthworm making a burrow in the soil

✗ 3. Two birds fighting with each other for food

✗ 4. A frog feeding on a grasshopper

Question ID : **7518974659**
Option 1 ID : **75189718634**
Option 2 ID : **75189718635**
Option 3 ID : **75189718636**
Option 4 ID : **75189718633**
Status : **Marked For Review**
Chosen Option : **1**

Q.78 Which of the following options is the closest approximate value which will come in place of question mark(?) in the following equation?

$7.98 \times 2 + 3.96 \times 6 - 18 \div 2 + 1 = ?$

Ans ✗ 1. 25

✗ 2. 36

✓ 3. 32

✗ 4. 40

Question ID : **7518975095**
Option 1 ID : **75189720380**
Option 2 ID : **75189720377**
Option 3 ID : **75189720379**
Option 4 ID : **75189720378**
Status : **Answered**
Chosen Option : **3**

Q.79 Which Indian state has the largest reserves of Bauxite as per Indian Minerals Yearbook 2017?

Ans ✗ 1. Jharkhand

✗ 2. Madhya Pradesh

✓ 3. Odisha

✗ 4. Andhra Pradesh

Question ID : **7518977258**
Option 1 ID : **75189729031**
Option 2 ID : **75189729032**
Option 3 ID : **75189729030**
Option 4 ID : **75189729029**
Status : **Answered**
Chosen Option : **2**

Q.80 The Hindu Widows' Remarriage Act was passed in the year _____ legalising the remarriage of widows in all jurisdictions of India under East India Company rule.

Ans ✔ 1. 1856

✘ 2. 1858

✘ 3. 1859

✘ 4. 1857

Question ID : **75189710423**
Option 1 ID : **75189741689**
Option 2 ID : **75189741691**
Option 3 ID : **75189741692**
Option 4 ID : **75189741690**
Status : **Answered**
Chosen Option : **1**

Q.81 A statement is given followed by two arguments I and II. Read the statement and the arguments carefully and select the appropriate answer from the given options.

Statement:
People are becoming more conscious about moving towards a healthy lifestyle.

Arguments:
I.   Many people are switching to organic farming as the food is healthier.
II.   People are planning meals and cooking at home more than before.

Ans ✘ 1. Both I and II weaken the statement

✘ 2. I weakens, while II strengthens the statement

✘ 3. II weakens, while I strengthens the statement

✔ 4. Both I and II strengthen the statement

Question ID : **75189711697**
Option 1 ID : **75189746787**
Option 2 ID : **75189746785**
Option 3 ID : **75189746786**
Option 4 ID : **75189746788**
Status : **Answered**
Chosen Option : **4**

Q.82 Two statement are given below, followed by four conclusions given in the options. Find out which conclusion is true based on the given statements.

Statement: $A = T > I > D, Q > M > J > T$

Ans
✔ 1. $D < Q$

✘ 2. $M < I$

✘ 3. $I > Q$

✘ 4. $A = Q$

Question ID : **7518979736**
Option 1 ID : **75189738942**
Option 2 ID : **75189738943**
Option 3 ID : **75189738941**
Option 4 ID : **75189738944**
Status : **Answered**
Chosen Option : **1**

Q.83 In Newlands' octaves, which of the following pairs of elements were placed in the same column along with H, F, Cl and Br?

Ans
✔ 1. Co and Ni

✘ 2. Cr and Zr

✘ 3. P and S

✘ 4. C and K

Question ID : **75189711923**
Option 1 ID : **75189747689**
Option 2 ID : **75189747691**
Option 3 ID : **75189747690**
Option 4 ID : **75189747692**
Status : **Not Answered**
Chosen Option : **--**

Q.84 In the displacement reaction between iron metal and copper sulphate solution _____.

Ans
✘ 1.
iron displaces copper from copper sulphate solution because it is less reactive than copper

✘ 2.
iron displaces sulphate from copper sulphate solution because it is more reactive than sulphate

✔ 3.
iron displaces copper from copper sulphate solution because it is more reactive than copper

✘ 4.
iron displaces sulphate from copper sulphate solution because it is less reactive than sulphate

Question ID : **75189711872**
Option 1 ID : **75189747487**
Option 2 ID : **75189747486**
Option 3 ID : **75189747485**
Option 4 ID : **75189747488**
Status : **Answered**
Chosen Option : **3**

Q.85 Which of the following conditions is NOT required by a candidate to become the President of India?

Ans ✗ 1. Should be a citizen of India

✗ 2. Should have completed the age of 35 years

✔ 3. Should have 10 years of experience in the parliament

✗ 4. Should not hold any office of profit

Question ID : **7518978933**
Option 1 ID : **75189735729**
Option 2 ID : **75189735730**
Option 3 ID : **75189735731**
Option 4 ID : **75189735732**
Status : **Answered**
Chosen Option : **3**

Q.86 On 28 March 2022, Minister of Information and Broadcasting of India, Anurag Thakur launched a scheme called TEJAS at Dubai Expo, which is an initiative under the Skill India International Project to train Indians so that they can get employed overseas. What is the full form of TEJAS?

Ans ✗ 1. Training for Eccentric Jobs and Skills

✔ 2. Training for Emirates Jobs and Skills

✗ 3. Technology for Emirates Jobs and Skills

✗ 4. Training for Empowering Jobs and Skills

Question ID : **7518979359**
Option 1 ID : **75189737434**
Option 2 ID : **75189737433**
Option 3 ID : **75189737435**
Option 4 ID : **75189737436**
Status : **Not Answered**
Chosen Option : **--**

Q.87 If 15 May 2001 is a Tuesday, then what will be the day of the week on 11 June 2013?

Ans ✗ 1. Sunday

✗ 2. Monday

✗ 3. Wednesday

✔ 4. Tuesday

Question ID : **75189711663**
Option 1 ID : **75189746652**
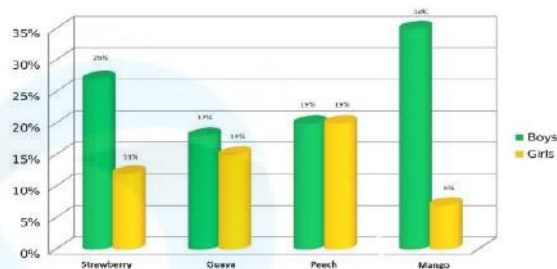Option 2 ID : **75189746649**
Option 3 ID : **75189746651**
Option 4 ID : **75189746650**
Status : **Answered**
Chosen Option : **2**

Q.88 The percentage of boys and girls liking four different fruits are shown in the following graph. Study the graph and answer the question.

The respective ratio of the number of boys to the number of girls is 2 : 3. If the total number of boys and girls together is 11,500, then total how many boys and how many girls like peaches?

Ans

✗ 1. 1311 boys and 1311 girls

✗ 2. 874 boys and 874 girls

✔ 3. 874 boys and 1311 girls

✗ 4. 1311 boys and 874 girls

Q.89 Which of the following compounds does NOT belong to the homologous series of alcohols?

Ans

✔ 1. $C_4H_{10}OH$

✗ 2. C_3H_7OH

✗ 3. C_2H_5OH

✗ 4. CH_3OH

Q.90 In which year, were the total faecal coliform levels from Gangothri to Diamond harbour, high?

Ans ✘ 1. 2007

    ✔ 2. 2011

    ✘ 3. 2020

    ✘ 4. 2014

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Question ID : **75189710282**
Option 1 ID : **75189741127**
Option 2 ID : **75189741128**
Option 3 ID : **75189741125**
Option 4 ID : **75189741126**
Status : **Not Answered**
Chosen Option : **--**

</div>

Q.91 Which of the following was considered as a limitation of Mendeleev's periodic table?

Ans ✘ 1.
Resemblance of hydrogen to alkali metals as well as halogens and a specific position was assigned to hydrogen.

    ✔ 2.
Resemblance of hydrogen to alkali metals as well as halogens and no specific position was assigned to hydrogen

    ✘ 3.
Resemblance of hydrogen to alkaline earth metals as well as halogens and no specific position was assigned to hydrogen

    ✘ 4.
Resemblance of hydrogen to alkaline earth metals as well as halogens and a specific position was assigned to hydrogen

<div align="right">

Question ID : **75189711926**
Option 1 ID : **75189747701**
Option 2 ID : **75189747703**
Option 3 ID : **75189747702**
Option 4 ID : **75189747704**
Status : **Answered**
Chosen Option : **2**

</div>

Q.92 Which of the following numbers will replace the question mark (?) in the given series?

15, 17, 37, 115, ?

Ans ✘ 1. 470

    ✔ 2. 465

    ✘ 3. 455

    ✘ 4. 460

<div align="right">

Question ID : **7518977723**
Option 1 ID : **75189730892**
Option 2 ID : **75189730891**
Option 3 ID : **75189730889**
Option 4 ID : **75189730890**
Status : **Not Answered**
Chosen Option : **--**

</div>

Q.93 If '+' means '×', '×' means '÷', '÷' means '−', and '−' means '+', then what will be the value of the given expression?

$490 \times 7 + 2 − 8 ÷ 6$

Ans
- ✗ 1. 98
- ✗ 2. 202
- ✓ 3. 142
- ✗ 4. 136

Question ID : **7518979789**
Option 1 ID : **75189739155**
Option 2 ID : **75189739156**
Option 3 ID : **75189739153**
Option 4 ID : **75189739154**
Status : **Answered**
Chosen Option : **3**

Q.94 Kangri language is mostly spoken in which of the following states of India?

Ans
- ✗ 1. Karnataka
- ✗ 2. Kerala
- ✓ 3. Himachal Pradesh
- ✗ 4. Madya Pradesh

Question ID : **75189710553**
Option 1 ID : **75189742209**
Option 2 ID : **75189742210**
Option 3 ID : **75189742211**
Option 4 ID : **75189742212**
Status : **Answered**
Chosen Option : **3**

Q.95 Consider two coils A and B. Suppose coil A is replaced with coil B that has the number of loops 2 times as that of loop A and the rate of change of magnetic flux is constant. Determine the ratio of the initial to the final induced EMF.

Ans
- ✗ 1. 2 : 1
- ✗ 2. 2 : 3
- ✓ 3. 1 : 2
- ✗ 4. 3 : 2

Question ID : **75189711374**
Option 1 ID : **75189745494**
Option 2 ID : **75189745495**
Option 3 ID : **75189745493**
Option 4 ID : **75189745496**
Status : **Answered**
Chosen Option : **3**

Q.96 When parallel beam of light rays are incident on the concave mirror of radius of curvature 0.8 m, reflected rays:

Ans ✗ 1.

appear to diverge from a point at a distance 0.8 m behind the mirror

✔ 2.

converge to a point at a distance 0.4 m from the concave surface

✗ 3.

appear to diverge from a point at a distance 0.4 m behind the mirror

✗ 4.

converge to a point at a distance 0.8 m from the concave surface

Q.97 Three identical light bulbs are connected to a battery as shown below. P, Q, X, Y and Z represent several points in the circuit. Which of the following holds true for this circuit?
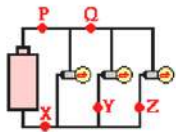
Ans ✗ 1. The current at Q is greater than the current at P.

✗ 2. Only the currents at P and Q are the same.

✗ 3. The current is the same at all locations.

✔ 4. The current at P is greater than the current at Q.

Q.98 Seven Woodland shoe boxes marked with A, B, C, D, E, F and G are kept one above the other but not necessarily in the same order. G is kept fourth from the bottom and immediately below E and immediately above B. There are only three boxes between C and F where C is place somewhere above F. D is placed at the bottom most position. How many shoe boxes are placed between A and F?

Ans
✗ 1. Five

✗ 2. Three

✗ 3. Two

✓ 4. Four

Q.99 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some pens are books.
Some books are pencils.
Some pencils are chairs.

Conclusions:
(I) Some chairs are pens.
(II) Some pencils are pens.

Ans
✗ 1. Only conclusion II follows

✗ 2. Only conclusion I follows

✓ 3. Neither conclusion I nor II follows

✗ 4. Both conclusions I and II follow

Q.100 Along its course, River _____ passes through Tibet, where it is known as Tsangpo, and also passes through the Indian states of Arunachal Pradesh, Assam and Bangladesh.

Ans ✔ 1. Brahmaputra

✘ 2. Ramganga

✘ 3. Mahanadi

✘ 4. Brahmani

Question ID : **7518978912**
Option 1 ID : **75189735648**
Option 2 ID : **75189735647**
Option 3 ID : **75189735645**
Option 4 ID : **75189735646**
Status : **Answered**
Chosen Option : **1**

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