RRB GROUP - D SHIFT – 3 (08-09-2022)

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रेल भर्ती बोर्ड / **RAILWAY RECRUITMENT BOARDS**

सी ई एन आर आर सी - ०१/२०१९ - **CEN RRC - 01/2019**

Test Date	08/09/2022
Test Time	5:00 PM - 6:30 PM
Subject	Level 1

* Note

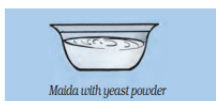**Correct Answer will carry 1 mark per Question.**

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 Study the figures A and B carefully. What is the reason for the increase in volume in dough B?

Maida with yeast powder — **A**

Raised maida — **B**

Ans ✗ 1. Alcohol is produced that increases the volume

✗ 2. Lactic acid is produced that increases the volume

✔ 3. CO_2 produced during respiration increases the volume

✗ 4. Water is produced that increases the volume

Question ID : **7518974538**
Option 1 ID : **75189718150**
Option 2 ID : **75189718151**
Option 3 ID : **75189718149**
Option 4 ID : **75189718152**
Status : **Answered**
Chosen Option : **3**

Q.2 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

AZ – CX – GT

XC – ZA – DW

Ans ✔ 1. DW – FU – JQ

✗ 2. MN – OM – SH

✗ 3. TH – VE – ZA

✗ 4. PK – RI – WD

Question ID : **7518977709**
Option 1 ID : **75189730835**
Option 2 ID : **75189730834**
Option 3 ID : **75189730833**
Option 4 ID : **75189730836**
Status : **Answered**

Q.3 A device of 60 W is connected to a 12 V battery. The current in the device is:

Ans
✗ 1. 0.1 A
✓ 2. 5.0 A
✗ 3. 0.2 A
✗ 4. 2.5 A

Question ID : **7518976717**
Option 1 ID : **75189726865**
Option 2 ID : **75189726868**
Option 3 ID : **75189726866**
Option 4 ID : **75189726867**
Status : **Answered**
Chosen Option : **2**

Q.4 If all the numbers given below are arranged in ascending order, the position of how many numbers will remain unchanged?

246, 247, 548, 845, 346, 578, 145

Ans
✗ 1. 3
✗ 2. 2
✓ 3. 1
✗ 4. 4

Question ID : **7518977993**
Option 1 ID : **75189731971**
Option 2 ID : **75189731970**
Option 3 ID : **75189731969**
Option 4 ID : **75189731972**
Status : **Answered**
Chosen Option : **3**

Q.5 The compound interest earned in 1 year on ₹40,000 at the rate of 40% per annum, compounded quarterly, is:

Ans
✗ 1. ₹28,564
✗ 2. ₹28,264
✗ 3. ₹18,264
✓ 4. ₹18,564

Question ID : **7518979244**
Option 1 ID : **75189736973**
Option 2 ID : **75189736976**
Option 3 ID : **75189736975**
Option 4 ID : **75189736974**
Status : **Answered**
Chosen Option : **4**

Q.6 Which language institution gives away the Bhasha Bharti Samman award in India?

Ans

✔ 1. Central Institute of Indian Languages

✘ 2. Kendriya Hindi Sansthan

✘ 3. Rashtriya Sanskrit Sansthan

✘ 4. Central Hindi Directorate

Question ID : **7518979386**
Option 1 ID : **75189737544**
Option 2 ID : **75189737543**
Option 3 ID : **75189737542**
Option 4 ID : **75189737541**
Status : **Answered**
Chosen Option : **2**

Q.7 Genes control traits through the activity of:

Ans

✘ 1. gametes

✘ 2. enzymes

✔ 3. hormones

✘ 4. chromosomes

Question ID : **7518977843**
Option 1 ID : **75189731372**
Option 2 ID : **75189731369**
Option 3 ID : **75189731370**
Option 4 ID : **75189731371**
Status : **Answered**
Chosen Option : **4**

Q.8 A 4 Ω resistor, A, is connected in series to a 6 Ω resistor, B, and a 2 V battery. The potential drops across A and B are respectively _____.

Ans

✘ 1. 1.4 V and 0.6 V

✘ 2. 1.2 V and 0.8 V

✘ 3. 0.6 V and 1.4 V

✔ 4. 0.8 V and 1.2 V

Question ID : **7518976689**
Option 1 ID : **75189726755**
Option 2 ID : **75189726753**
Option 3 ID : **75189726756**
Option 4 ID : **75189726754**
Status : **Answered**
Chosen Option : **4**

Q.9 The HCF of $(x^4 - y^4), (x^8 - y^8)$ and $(x^2 - y^2)$ is:

Ans

✔ 1. $(x - y)(x + y)$

✘ 2. $(x - y)(x + y)(x-y)(x + y)$

✘ 3. $(x + y)(x + y)$

✘ 4. $(x - y)(x + y)(x + y)$

Question ID : **7518978648**
Option 1 ID : **75189734589**
Option 2 ID : **75189734592**
Option 3 ID : **75189734590**
Option 4 ID : **75189734591**
Status : **Answered**
Chosen Option : **1**

Q.10 Which of the following numbers will replace the question mark (?) in the given series?

25, 23, 29, 28, 33, 33, ?

Ans

✘ 1. 34

✔ 2. 37

✘ 3. 38

✘ 4. 35

Question ID : **7518977717**
Option 1 ID : **75189730865**
Option 2 ID : **75189730868**
Option 3 ID : **75189730866**
Option 4 ID : **75189730867**
Status : **Answered**
Chosen Option : **2**

Q.11 What is the normal systolic and diastolic pressure in humans?

Ans

✔ 1. 120 mm of Hg / 80 mm of Hg

✘ 2. 120 mm of Hg / 90 mm of Hg

✘ 3. 130 mm of Hg / 90 mm of Hg

✘ 4. 130 mm of Hg / 80 mm of Hg

Question ID : **7518974592**
Option 1 ID : **75189718368**
Option 2 ID : **75189718367**
Option 3 ID : **75189718366**
Option 4 ID : **75189718365**
Status : **Answered**
Chosen Option : **1**

Q.12 Satheesh starts from a bus-stand and travels 6 km towards the north. He then takes a right turn, travels 2 km, turns right and travels 11 km. He then takes a right turn and travels 5 km. He takes a final right turn, travels 3 km and stops at a junction. In which direction is the bus-stand with respect to the junction? (All turns are 90° turns only.)

Ans
- ✗ 1. North
- ✗ 2. South
- ✔ 3. North-east
- ✗ 4. South-west

Q.13 Given below is a statement followed by two possible underlying assumptions I and II. Read the information carefully and select the correct option.

Statement:

Extracts of plant C have been found useful in treating an earlier fatal disease. Although plant C, once imported, can be grown on any moist soil, most pharma companies in country Y are still choosing synthetic substitutes over using natural extracts.

Which of the following can be assumed by the given statement?

I. Unlike the case in all other countries, in Country Y, production of this synthetic substitute is substantially cheaper than growing Plant C.

II. The effect of a synthetic substitute is not drastically different from the plant extract.

Ans
- ✔ 1. Only II can be assumed
- ✗ 2. Both I and II can be assumed
- ✗ 3. Neither I nor II can be assumed
- ✗ 4. Only I can be assumed

Q.14 A 100 W bulb is connected to a 220 V source. The current through the bulb is:

Ans
- ✗ 1. 2.2 A
- ✔ 2. 0.45 A
- ✗ 3. 0.25 A
- ✗ 4. 1.1 A

Q.15 Select the correct statement.

Ans
✔ 1. Investment multiplier is positively related to MPC.

✘ 2.
Slope of the consumption function is indicated by APC, and not MPC.

✘ 3. Investment multiplier is zero when MPS is zero.

✘ 4. MPC multiplied by MPS equals 1.

Question ID : **7518976826**
Option 1 ID : **75189727303**
Option 2 ID : **75189727301**
Option 3 ID : **75189727304**
Option 4 ID : **75189727302**
Status : **Answered**
Chosen Option : **2**

Q.16 Which of the following numbers will replace the question mark (?) in the given series?

15, 18, 27, 54, 135, ?

Ans
✘ 1. 368

✘ 2. 367

✔ 3. 378

✘ 4. 398

Question ID : **7518978304**
Option 1 ID : **75189733214**
Option 2 ID : **75189733213**
Option 3 ID : **75189733215**
Option 4 ID : **75189733216**
Status : **Answered**
Chosen Option : **3**

Q.17 This question is based on the five, three-digit numbers given below.

(Left) 634 145 317 534 621 (Right)

(Example: 697 – first digit = 6, second digit = 9, third digit = 7)

NOTE: All operations to be done from left to right.

What will be the resultant if the third digit of the largest number is added to the second digit of smallest number?

Ans
✘ 1. 9

✘ 2. 7

✘ 3. 4

✔ 4. 8

Question ID : **7518979177**
Option 1 ID : **75189736707**
Option 2 ID : **75189736708**
Option 3 ID : **75189736705**
Option 4 ID : **75189736706**
Status : **Answered**
Chosen Option : **4**

Q.18 Which of the following gases is essential for all aerobic forms of life?

Ans ✗ 1. CO_2
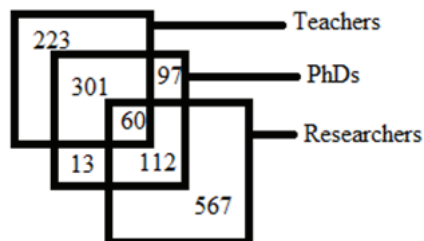
✗ 2. CO

✗ 3. O_3

✔ 4. O_2

Q.19 An object is placed in front of a concave mirror at a point beyond its centre of curvature C. The image is formed at a point _____ and is _____.

Ans ✗ 1. beyond C, diminished

✗ 2. beyond C, enlarged

✗ 3. between F and C, enlarged

✔ 4. between F and C, diminished

Q.20 Study the Venn Diagram given below and answer the question that follows.

How many PhDs are neither teachers nor researchers?

Ans ✗ 1. 112

✗ 2. 301

✔ 3. 110

✗ 4. 60

Q.21 In this question, 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.

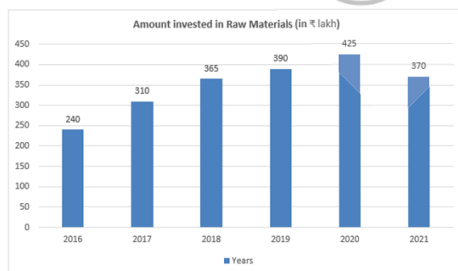| Number/Symbol	4	5	9	#	$	%	6
Codes	S	D	M	U	T	L	A

Conditions:

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

(ii) If the second element is an even number and the fifth element is a symbol, the codes for these two (the second and the fifth elements) are to be interchanged.

(iii) If the fourth element is a number and the sixth element is a symbol, both these elements (the fourth and the sixth elements) are to be coded as G.

Question: 4 5 $ 9 4 % # 6

Ans

✗ 1. S D T M L G U A

✗ 2. A D T G S G U S

✔ 3. S D T G S G U A

✗ 4. S S T G D G U A

Q.22 The following bar chart shows the amount invested by a company in raw material over the duration of six years. Study the bar chart and answer the question based on it.

Amount invested in Raw Materials (in ₹ lakh)

The sum of amount invested in raw materials in 2016 and 2021 was what percentage of the sum of the amount invested in raw materials in the year 2018 and 2020?

Ans

✔ 1. 77.22%

✗ 2. 78.36%

✗ 3. 79.98%

✗ 4. 79.56%

Q.23 The HCF and LCM of two numbers are 24 and 456, respectively. If one number is 96, then the other number is:

Ans
✗ 1. 112

✗ 2. 192

✔ 3. 114

✗ 4. 216

Question ID : **7518978653**
Option 1 ID : **75189734611**
Option 2 ID : **75189734609**
Option 3 ID : **75189734610**
Option 4 ID : **75189734612**
Status : **Answered**
Chosen Option : **3**

Q.24 A decomposition reaction carried out by heating is called:

Ans
✗ 1. electrolysis

✗ 2. photochemical decomposition

✔ 3. thermal decomposition

✗ 4. exothermic reaction

Question ID : **7518978120**
Option 1 ID : **75189732479**
Option 2 ID : **75189732477**
Option 3 ID : **75189732478**
Option 4 ID : **75189732480**
Status : **Answered**
Chosen Option : **3**

Q.25
The term 'lithification' is related to which of the following geographic elements?

Ans

✗ 1. Seas

✗ 2. Valleys

✗ 3. Rivers

✔ 4. Rocks

Question ID : **7518973888**
Option 1 ID : **75189715550**
Option 2 ID : **75189715552**
Option 3 ID : **75189715551**
Option 4 ID : **75189715549**
Status : **Answered**
Chosen Option : **4**

Q.26 If in a code language, THINE is written as SGHMD and ISLAND is written as HRKZMC, how will DYNAMIC be written in that language?

Ans

✗ 1. JUHGTRD

✗ 2. EZNBMCI

✓ 3. CXMZLHB

✗ 4. FGTRDVN

Question ID : **7518979012**
Option 1 ID : **75189736048**
Option 2 ID : **75189736046**
Option 3 ID : **75189736045**
Option 4 ID : **75189736047**
Status : **Answered**
Chosen Option : **3**

Q.27 The value of $\sqrt{625} + \sqrt{0.25} - \sqrt{0.000025}$ is:

Ans

✓ 1. 25.495

✗ 2. 25.5

✗ 3. 25.405

✗ 4. 25.395

Question ID : **7518979208**
Option 1 ID : **75189736830**
Option 2 ID : **75189736831**
Option 3 ID : **75189736832**
Option 4 ID : **75189736829**
Status : **Answered**
Chosen Option : **1**

Q.28 The ratio of the present ages of a father and son is 7: 4.The product of their ages is 6300. The age of the son is:

Ans

✗ 1. 70 years

✗ 2. 50 years

✗ 3. 80 years

✓ 4. 60 years

Question ID : **7518978752**
Option 1 ID : **75189735006**
Option 2 ID : **75189735008**
Option 3 ID : **75189735005**
Option 4 ID : **75189735007**
Status : **Answered**
Chosen Option : **4**

Q.29 Which of the following festivals is also known as 'Vijayadashmi'?

Ans
✔ 1. Dussehra

✘ 2. Onam

✘ 3. Diwali

✘ 4. Pongal

<div align="right">

Question ID : **7518977473**
Option 1 ID : **75189729892**
Option 2 ID : **75189729890**
Option 3 ID : **75189729891**
Option 4 ID : **75189729889**
Status : **Answered**
Chosen Option : **1**

</div>

Q.30 During the British rule in India, about how much per cent of the country's population lived mostly in villages and derived their livelihood directly or indirectly from agriculture?

Ans
✘ 1. 55%

✔ 2. 85%

✘ 3. 65%

✘ 4. 75%

<div align="right">

Question ID : **7518979413**
Option 1 ID : **75189737652**
Option 2 ID : **75189737649**
Option 3 ID : **75189737651**
Option 4 ID : **75189737650**
Status : **Answered**
Chosen Option : **2**

</div>

Q.31 An area designated for wildlife in which they have unrestricted access to ecosystems and natural resources is called a
_____.

Ans
✘ 1. protected area

✔ 2. national park

✘ 3. wildlife sanctuary

✘ 4. biosphere reserve

<div align="right">

Question ID : **7518974484**
Option 1 ID : **75189717936**
Option 2 ID : **75189717934**
Option 3 ID : **75189717933**
Option 4 ID : **75189717935**
Status : **Answered**
Chosen Option : **3**

</div>

Q.32 The guardian of the Constitution of India is:

Ans
❌ 1. the Lok Sabha

✅ 2. the Supreme Court

❌ 3. the President

❌ 4. the Rajya Sabha

Question ID : **7518974299**
Option 1 ID : **75189717195**
Option 2 ID : **75189717194**
Option 3 ID : **75189717193**
Option 4 ID : **75189717196**
Status : **Answered**
Chosen Option : **2**

Q.33 One year ago, a man was 7 times as old as his daughter. Now his age is equal to the square of his daughter's age. If the daughter has already celebrated her first year birthday, then their present ages are:

Ans
❌ 1. 7 and 49

❌ 2. 5 and 25

❌ 3. 4 and 28

✅ 4. 6 and 36

Question ID : **7518979318**
Option 1 ID : **75189737270**
Option 2 ID : **75189737271**
Option 3 ID : **75189737272**
Option 4 ID : **75189737269**
Status : **Answered**
Chosen Option : **4**

Q.34 The value of $47 + \{7 + [61 - (21 \div 3)] \div 9\}$ is:

Ans
❌ 1. 40

❌ 2. 80

❌ 3. 100

✅ 4. 60

Question ID : **7518978613**
Option 1 ID : **75189734452**
Option 2 ID : **75189734450**
Option 3 ID : **75189734449**
Option 4 ID : **75189734451**
Status : **Answered**
Chosen Option : **4**

Q.35 Which of the following will NOT affect the magnetic strength of an electromagnet?

Ans
✗ 1. Number of turns in the coil

✔ 2. Direction of placement of the coil

✗ 3. Length of the metallic core

✗ 4. Current flowing through the coil

Question ID : **7518978153**
Option 1 ID : **75189732609**
Option 2 ID : **75189732610**
Option 3 ID : **75189732612**
Option 4 ID : **75189732611**
Status : **Answered**
Chosen Option : **2**

Q.36 If x+y = 8, product of x and y is 15, then the value of $x^4 + y^4$ is:

Ans
✔ 1. 706

✗ 2. 606

✗ 3. 906

✗ 4. 806

Question ID : **7518978732**
Option 1 ID : **75189734927**
Option 2 ID : **75189734928**
Option 3 ID : **75189734925**
Option 4 ID : **75189734926**
Status : **Answered**
Chosen Option : **1**

Q.37 Refer to the following number series and answer the question.

7 2 9 6 3 8 3 8 7 2 3 2 7 3 2 2 1 3 3 9 9 7 4 2 9 3 0 9

Find the sum of number of occurrences of 2s and number of occurrences of 3s in the given series.

Ans
✗ 1. 12

✔ 2. 13

✗ 3. 8

✗ 4. 10

Question ID : **7518978258**
Option 1 ID : **75189733031**
Option 2 ID : **75189733032**
Option 3 ID : **75189733029**
Option 4 ID : **75189733030**
Status : **Answered**
Chosen Option : **2**

Q.38 An object is placed on the principal axis of a concave lens, at a point between infinity and its optical centre O. Its image formed is _____.

Ans
✔ 1. virtual and diminished

✘ 2. virtual and enlarged

✘ 3. real and diminished

✘ 4. real and enlarged

Question ID : **7518976626**
Option 1 ID : **75189726504**
Option 2 ID : **75189726502**
Option 3 ID : **75189726503**
Option 4 ID : **75189726501**
Status : **Answered**
Chosen Option : **1**

Q.39 _____ as a result of the 44th Constitutional Amendment to the Constitution of India.

Ans
✔ 1. Right to Property ceased to be a Fundamental Right

✘ 2.
Salaries of Judges of the High Courts and Supreme Court of India were revised

✘ 3. Sikkim became the 22nd state of the India Union

✘ 4.
The Preamble to the Constitution of India was amended to include the words 'socialist' and 'secular'

Question ID : **7518978593**
Option 1 ID : **75189734369**
Option 2 ID : **75189734372**
Option 3 ID : **75189734370**
Option 4 ID : **75189734371**
Status : **Answered**
Chosen Option : **1**

Q.40 Which of the following Indian states received the maximum of its rainfall from the Northeast Monsoon in 2021?

Ans
✘ 1. Uttar Pradesh

✘ 2. Haryana
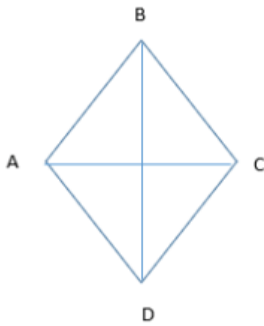
✔ 3. Tamil Nadu

✘ 4. Gujarat

Question ID : **7518974262**
Option 1 ID : **75189717046**
Option 2 ID : **75189717045**
Option 3 ID : **75189717048**
Option 4 ID : **75189717047**
Status : **Answered**
Chosen Option : **4**

Q.41 Which of the following metals is most metallic in nature?

Ans ✅ 1. Cs

❌ 2. Na

❌ 3. Rb

❌ 4. Li

Q.42 If ABCD is a rhombus such that $\angle ACB = 50°$, then $\angle BDC$ will be:

Ans ✅ 1. 40°

❌ 2. 50°

❌ 3. 60°

❌ 4. 55°

Q.43 In the year 2021, the sportspersons who won the most Arjuna Awards were associated with which sport?

Ans ❌ 1. Shooting

❌ 2. Cricket

✅ 3. Hockey

❌ 4. Archery

Q.44 Acids that give rise to more H^+ ions are said to be _____, while those which gives less H^+ ions are said to be
_____.

Ans

  ✗ 1. weak acid, strong acid

  ✔ 2. strong acid, weak acid

  ✗ 3. strong acid, weak base

  ✗ 4. strong acid, strong base

Question ID : **7518973620**
Option 1 ID : **75189714479**
Option 2 ID : **75189714480**
Option 3 ID : **75189714478**
Option 4 ID : **75189714477**
Status : **Answered**
Chosen Option : **4**

Q.45 What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and also '×'
and '÷' are interchanged?

$10 \div 5 + 144 \times 12 + 13 - 45 \times 9 + 12 = ?$

Ans

  ✗ 1. 22

  ✗ 2. 20

  ✗ 3. 16

  ✔ 4. 18

Question ID : **7518978335**
Option 1 ID : **75189733340**
Option 2 ID : **75189733339**
Option 3 ID : **75189733337**
Option 4 ID : **75189733338**
Status : **Answered**
Chosen Option : **4**

Q.46 Gaganpreet started walking towards the north from his school. After walking for 6 metres he turned left and walked
further 8 metres to reach his home. In which direction is his school from his home? (All turns are 90 degree turns only)

Ans

  ✗ 1. South-west

  ✔ 2. South-east

  ✗ 3. North-west

  ✗ 4. North-east

Question ID : **7518978015**
Option 1 ID : **75189732059**
Option 2 ID : **75189732058**
Option 3 ID : **75189732057**
Option 4 ID : **75189732060**
Status : **Answered**
Chosen Option : **2**

Q.47 Each vowel in the word 'EXACTLY' 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. Which of the following letters will appear twice in the group of letters thus formed?

Ans ✗ 1. S

✗ 2. K

✗ 3. W

✔ 4. B

Q.48 The third proportional to $(x^3 - y^3)$ and $(x - y)$ is:

Ans ✗ 1. $\dfrac{(x-y)^2}{x^2 + xy + y^2}$

✗ 2. $\dfrac{x-y}{x^2 - xy + y^2}$

✔ 3. $\dfrac{x-y}{x^2 + xy + y^2}$

✗ 4. $\dfrac{(x-y)^2}{x^2 - xy + y^2}$

Q.49 Roots of the equation $x^2 - 5x - 14 = 0$ are:

Ans ✗ 1. $2, -7$

✗ 2. $3, -2$

✗ 3. $5, -3$

✔ 4. $7, -2$

Q.50 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 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)

(20, 16, 8)

(13, 20, 23)

Ans
✗ 1. (19, 18, 21)

✗ 2. (14, 18, 16)

✔ 3. (32, 27, 18)

✗ 4. (13, 16, 13)

Question ID : **7518977737**
Option 1 ID : **75189730948**
Option 2 ID : **75189730947**
Option 3 ID : **75189730945**
Option 4 ID : **75189730946**
Status : **Answered**
Chosen Option : **3**

Q.51 There are 20 members in group A, 32 members in group B and 28 members in group C. All the members of these groups went to a restaurant. The average amount spent on each member of group A, B and C is ₹120, ₹125 and ₹100, respectively. The total average amount (in ₹) spent per member is:

Ans
✗ 1. 118

✗ 2. 112

✗ 3. 116

✔ 4. 115

Question ID : **7518978409**
Option 1 ID : **75189733636**
Option 2 ID : **75189733633**
Option 3 ID : **75189733635**
Option 4 ID : **75189733634**
Status : **Answered**
Chosen Option : **4**

Q.52 In February 2022, which job portal powered by artificial intelligence was launched by IIT-Hyderabad to help people with disabilities to acquire relevant skills and find jobs?

Ans
✔ 1. Swarajability

✗ 2. Sarthakindia

✗ 3. Yuvika

✗ 4. Glassdoor

Question ID : **7518978828**
Option 1 ID : **75189735310**
Option 2 ID : **75189735312**
Option 3 ID : **75189735311**
Option 4 ID : **75189735309**
Status : **Answered**
Chosen Option : **2**

Q.53 From the numbers 583, 459, 687, 754 and 853,, which of the following will be the lowest number, if in each number, all the 8s and 5s are replaced with 2 and 1, respectively?

Ans
✗ 1. 687

✗ 2. 459

✔ 3. 583

✗ 4. 853

Question ID : 7518979048
Option 1 ID : 75189736191
Option 2 ID : 75189736192
Option 3 ID : 75189736190
Option 4 ID : 75189736189
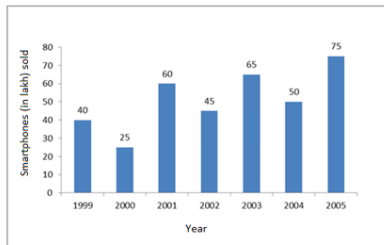Status : **Answered**
Chosen Option : **3**

Q.54 A started a business with a capital of ₹4,50,000. After 3 months, B joined him with a certain amount of capital. At the end of a year of A's starting the business, the profit was shared in the ratio 3 : 2. How much (in ₹) did B invest?

Ans
✗ 1. 4,20,000

✔ 2. 4,00,000

✗ 3. 3,20,000

✗ 4. 3,60,000

Question ID : 7518978365
Option 1 ID : 75189733460
Option 2 ID : 75189733459
Option 3 ID : 75189733457
Option 4 ID : 75189733458
Status : **Answered**
Chosen Option : **2**

Q.55 Study the given graph and answer the question that follows.

The graph presents smartphones (in lakh) sold by a company during the years 1999 to 2005.

What was the approximate percentage increase in the smartphone sales of the company from 2002 to 2003?

Ans
✔ 1. 44%

✗ 2. 48%

✗ 3. 42%

✗ 4. 39%

Question ID : 7518978092
Option 1 ID : 75189732366
Option 2 ID : 75189732365
Option 3 ID : 75189732367
Option 4 ID : 75189732368
Status : **Answered**
Chosen Option : **1**

Q.56 The value of $5\sqrt{6} - \sqrt{[3(4-2)]} + \left(\frac{12}{\sqrt{6}}\right)$ is:

Ans ✗ 1. $7\sqrt{6}$

✓ 2. $6\sqrt{6}$

✗ 3. $8\sqrt{6}$

✗ 4. $5\sqrt{6}$

Question ID : **7518979207**
Option 1 ID : **75189736827**
Option 2 ID : **75189736826**
Option 3 ID : **75189736828**
Option 4 ID : **75189736825**
Status : **Answered**
Chosen Option : **2**

Q.57 Which of the following phenomena is NOT involved during the formation of a rainbow?

Ans ✗ 1. dispersion

✓ 2. scattering

✗ 3. refraction

✗ 4. Total internal reflection

Question ID : **7518975432**
Option 1 ID : **75189721726**
Option 2 ID : **75189721727**
Option 3 ID : **75189721725**
Option 4 ID : **75189721728**
Status : **Answered**
Chosen Option : **4**

Q.58 Three statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they do not conform to real world knowledge, decide which of the given conclusions/possibilities can be true on the basis of the statements.

Statements:
1. Some students are males.
2. Some males are sincere.
3. All sincere are honest.

Conclusions:
I. Some honest are males.
II. All males are students is a possibility.
III. Some sincere are not students.

Ans ✗ 1. Only conclusion II is true

✓ 2. Only conclusion I and II are true

✗ 3. Only conclusion III is true

✗ 4. Only conclusion I is true

Question ID : **7518978205**
Option 1 ID : **75189732818**
Option 2 ID : **75189732820**
Option 3 ID : **75189732819**
Option 4 ID : **75189732817**
Status : **Answered**
Chosen Option : **4**

Q.59 The National Commission for Protection of Child Rights (NCPCR) launched the SAMVEDNA helpline in 2021 to _____.

Ans

✗ 1. counsel children of sex workers

✗ 2. provide guidance to students about career choices

✗ 3. counsel children who witness domestic violence

✓ 4. provide mental support to children affected by Covid-19

Question ID : **7518978503**
Option 1 ID : **75189734011**
Option 2 ID : **75189734012**
Option 3 ID : **75189734010**
Option 4 ID : **75189734009**
Status : **Answered**
Chosen Option : **3**

Q.60 According to the Union Budget 2022, the overall workforce participation rate in India is _____.

Ans

✗ 1. 19.1%

✗ 2. 21.2%

✓ 3. 20.3%

✗ 4. 22.6%

Question ID : **7518976541**
Option 1 ID : **75189726161**
Option 2 ID : **75189726163**
Option 3 ID : **75189726162**
Option 4 ID : **75189726164**
Status : **Answered**
Chosen Option : **2**

Q.61 A concave mirror is made from a section of the surface of a sphere of radius 8.0 cm. Its principal focus is at a distance of _____ from its pole.

Ans

✗ 1. 8.0 cm

✗ 2. 16.0 cm

✗ 3. 12.0 cm

✓ 4. 4.0 cm

Question ID : **7518976591**
Option 1 ID : **75189726362**
Option 2 ID : **75189726364**
Option 3 ID : **75189726363**
Option 4 ID : **75189726361**
Status : **Answered**
Chosen Option : **4**

Q.62 Consider the statements given below and identify the correct answer.

Statement I: The Modern Periodic Table has 18 vertical columns known as 'periods' and 7 horizontal rows known as 'groups'.

Statement II: Groups in the Periodic Table signify an identical outer shell electronic configuration

Ans

✔ 1. Statement II is correct, Statement I is incorrect.

✘ 2. Statement I is correct, Statement II is incorrect.

✘ 3. Both statements are correct.

✘ 4. Both statements are incorrect.

Question ID : **7518973721**
Option 1 ID : **75189714882**
Option 2 ID : **75189714881**
Option 3 ID : **75189714883**
Option 4 ID : **75189714884**
Status : **Answered**
Chosen Option : **2**

Q.63 Which amendments of the Constitution of India aimed at strengthening local governments and ensuring an element of uniformity in their structure

and functioning across the country?

Ans

✘ 1. 63rd and 64th

✔ 2. 73rd and 74th

✘ 3. 53rd and 54th

✘ 4. 43rd and 44th

Question ID : **7518979449**
Option 1 ID : **75189737794**
Option 2 ID : **75189737793**
Option 3 ID : **75189737795**
Option 4 ID : **75189737796**
Status : **Answered**
Chosen Option : **2**

Q.64 The average sale of cars by a dealer per day in the month of March, other than on Saturdays and Sundays, is 125. The average sale of cars per day on Sundays is 150. What is the average sale of cars per day on Saturdays, if the first Saturday is on the 3rd of March and average sale of cars per day for the whole month is 130?

Ans

✘ 1. 132

✘ 2. 138

✔ 3. 136

✘ 4. 140

Question ID : **7518978410**
Option 1 ID : **75189733640**
Option 2 ID : **75189733638**
Option 3 ID : **75189733639**
Option 4 ID : **75189733637**
Status : **Answered**
Chosen Option : **3**

Q.65 The double displacement reaction among the following is:

Ans ✗ 1. $Pb\ (s) + CuCl_2\ (aq) \rightarrow PbCl_2\ (aq) + Cu\ (s)$

✓ 2. $CuSO_4\ (aq) + H_2S\ (g) \rightarrow CuS\ (s) + H_2SO_4\ (aq)$

✗ 3. $Fe\ (s) + CuSO_4\ (aq) \rightarrow FeSO_4\ (aq) + Cu\ (s)$

✗ 4. $Zn\ (s) + CuSO_4\ (aq) \rightarrow ZnSO_4\ (aq) + Cu\ (s)$

Question ID : 7518973588
Option 1 ID : 75189714351
Option 2 ID : 75189714352
Option 3 ID : 75189714349
Option 4 ID : 75189714350
Status : **Answered**
Chosen Option : **2**

Q.66 The total surface area of a cube whose main diagonal length is $16\sqrt{3}$ cm is:

Ans ✗ 1. $1868\ cm^2$

✗ 2. $1854\ cm^2$

✗ 3. $1764\ cm^2$

✓ 4. $1536\ cm^2$

Question ID : 7518979330
Option 1 ID : 75189737319
Option 2 ID : 75189737318
Option 3 ID : 75189737317
Option 4 ID : 75189737320
Status : **Answered**
Chosen Option : **4**

Q.67 The value of

$$\frac{\sin^2 54^0 + \sin^2 36^0}{\tan^2 40^0 - cosec^2 50^0} \text{ is:}$$

Ans ✗ 1. 1

✗ 2. 2

✓ 3. -1

✗ 4. 0

Question ID : 7518978813
Option 1 ID : 75189735249
Option 2 ID : 75189735252
Option 3 ID : 75189735251
Option 4 ID : 75189735250
Status : **Answered**
Chosen Option : **3**

Q.68 12 unskilled and 14 skilled workers together complete a certain piece of work in 9 days. If each unskilled worker takes twice the time taken by a skilled worker to finish the work, in how many days will 12 skilled workers finish the same work?

Ans

✗ 1. 12 days

✗ 2. 18 days

✔ 3. 15 days

✗ 4. 10 days

Question ID : 7518979265
Option 1 ID : 75189737058
Option 2 ID : 75189737060
Option 3 ID : 75189737059
Option 4 ID : 75189737057
Status : **Answered**
Chosen Option : **3**

Q.69 Amongst six friends P, Q, R, S, T and U, each has a different height. T is taller than only two other friends. R is shorter than only one friend. P is shorter than T but taller than S. Q is shorter than U. Who is the third tallest among all the friends?

Ans

✗ 1. T

✔ 2. Q

✗ 3. R

✗ 4. U

Question ID : 7518979130
Option 1 ID : 75189736517
Option 2 ID : 75189736519
Option 3 ID : 75189736520
Option 4 ID : 75189736518
Status : **Answered**
Chosen Option : **2**

Q.70 If $x^4 + \dfrac{1}{x^4} = 27$, then what is the value of $x^2 + \dfrac{1}{x^2}$?

Ans

✗ 1. $\sqrt{31}$

✗ 2. 29

✗ 3. 31

✔ 4. $\sqrt{29}$

Question ID : 7518976131
Option 1 ID : 75189724523
Option 2 ID : 75189724522
Option 3 ID : 75189724521
Option 4 ID : 75189724524
Status : **Answered**
Chosen Option : **4**

Q.71 Consider the following statements about an electric motor:

(a) It uses a commutator that reverses the direction of the current in the coil after each half rotation.

(b) The direction of the force on an arm of the coil can be found using Fleming's left hand rule.

Which of the above statements is/are correct?

Ans ✗ 1. Only (a)

✗ 2. Neither (a) nor (b)

✔ 3. Both (a) and (b)

✗ 4. Only (b)

Q.72 Eight coloured boxes are kept in an almirah having eight shelves. Only one box is kept on one shelf. The lower most shelf is numbered one and the uppermost shelf is numbered eight. There are only two boxes kept above the blue box. The brown box is kept between the black and the blue box. Six boxes are kept below the green box. The orange box is kept on an odd numbered shelf. The yellow box is kept just above the white box and is somewhere below the red box.

Which box is kept on the lowermost shelf?

Ans ✗ 1. Blue

✗ 2. Red

✗ 3. Yellow

✔ 4. White

Q.73 Among six friends, A, B, C, D, E and F, each with a different height, B is taller than D but shorter than E. C is shorter than E. A is taller than F. D and E are shorter than C and A, respectively. E is shorter than A and F. Who among the six friends is the tallest?

Ans ✔ 1. A

✗ 2. E

✗ 3. F

✗ 4. C

Q.74 Name the state that became the first state to introduce carbon-neutral farming methods, in March 2022?

Ans

✗ 1. Assam

✔ 2. Kerala

✗ 3. Tamil Nadu

✗ 4. Jharkhand

Question ID : **7518973874**
Option 1 ID : **75189715495**
Option 2 ID : **75189715493**
Option 3 ID : **75189715494**
Option 4 ID : **75189715496**
Status : **Answered**
Chosen Option : **1**

Q.75 Indian Space Research Organization (ISRO) has successfully completed the ground test of the solid fuel-based booster stage (SS1) of its new SSLV at Satish Dhawan Space Centre (SDSC), Sriharikota at Andhra Pradesh in March 2022. What is the full form of the above mentioned SSLV?

Ans

✗ 1. Systematic Satellite Launch Vehicle

✔ 2. Small Satellite Launch Vehicle

✗ 3. Synchronized Satellite Launch Vehicle

✗ 4. Solar Satellite Launch Vehicle

Question ID : **7518979355**
Option 1 ID : **75189737420**
Option 2 ID : **75189737418**
Option 3 ID : **75189737419**
Option 4 ID : **75189737417**
Status : **Answered**
Chosen Option : **3**

Q.76 The marked price of an item is ₹250 and a shopkeeper allows a discount of 30%. The selling price of the item is:

Ans

✗ 1. ₹165

✗ 2. ₹185

✗ 3. ₹195

✔ 4. ₹175

Question ID : **7518978689**
Option 1 ID : **75189734756**
Option 2 ID : **75189734754**
Option 3 ID : **75189734753**
Option 4 ID : **75189734755**
Status : **Answered**
Chosen Option : **4**

Q.77 Which of the following is the birth place of the founder of Christianity?

Ans
- ✗ 1. Galilee
- ✗ 2. Haifa
- ✔ 3. Bethlehem
- ✗ 4. Nazareth

Question ID : **7518977196**
Option 1 ID : **75189728784**
Option 2 ID : **75189728782**
Option 3 ID : **75189728783**
Option 4 ID : **75189728781**
Status : **Answered**
Chosen Option : **3**

Q.78 Which of the following terms will replace the question mark (?) in the given series to make it logically complete?

FUR37, LAX43, RGD49, XMJ55, ?

Ans
- ✔ 1. DSP61
- ✗ 2. DPS61
- ✗ 3. PDS63
- ✗ 4. PSD63

Question ID : **7518979135**
Option 1 ID : **75189736539**
Option 2 ID : **75189736538**
Option 3 ID : **75189736537**
Option 4 ID : **75189736540**
Status : **Answered**
Chosen Option : **1**

Q.79 Six boxes of different food items are kept in a row on the dining table. The box with toffees is kept at one end. There are three boxes kept between the box with toffees and the box with chocolates. The box with ice cream is not kept with the toffee box or the fruit-jam box. Cookies and pancakes boxes are kept with the ice cream box. Which of the following box is kept at an end?

Ans
- ✗ 1. Chocolates
- ✔ 2. Fruit-jam
- ✗ 3. Cookies
- ✗ 4. Pancake

Question ID : **7518977902**
Option 1 ID : **75189731606**
Option 2 ID : **75189731605**
Option 3 ID : **75189731608**
Option 4 ID : **75189731607**
Status : **Answered**
Chosen Option : **2**

Q.80 Five friends V, W, X, Y, and Z are eating dinner around a circular dining table, facing the centre.

X is an immediate neighbour of both Z and W. V is sitting to the immediate left of W. Y is sitting second to the left of W. Who is sitting to the immediate left of X?

Ans
✗ 1. Y

✗ 2. Z

✗ 3. V

✔ 4. W

Question ID : **7518977884**
Option 1 ID : **75189731536**
Option 2 ID : **75189731533**
Option 3 ID : **75189731535**
Option 4 ID : **75189731534**
Status : **Answered**
Chosen Option : **4**

Q.81 Which ministry released a draft 'National Air Sports Policy (NASP)' for public feedback on January 2, 2022?

Ans

✗ 1. Ministry of Home Affairs

✗ 2. Ministry of External Affairs

✗ 3. Ministry of Youth Affairs and Sports

✔ 4. Ministry of Civil Aviation

Question ID : **7518973759**
Option 1 ID : **75189715035**
Option 2 ID : **75189715036**
Option 3 ID : **75189715034**
Option 4 ID : **75189715033**
Status : **Answered**
Chosen Option : **3**

Q.82 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 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.)

(13, 9, 5)

(14, 11, 8)

Ans ✗ 1. (22, 32, 24)

✔ 2. (22, 19, 16)

✗ 3. (18, 26, 36)

✗ 4. (14, 10, 12)

Q.83 A man is 4 times as old his son. After 6 years, the man's age will be three times that of his son. The sum of their present ages is:

Ans ✗ 1. 80 years

✗ 2. 70 years

✔ 3. 60 years

✗ 4. 90 years

Q.84 Which of the following members of the homologous series of alkanes has the highest melting point?

Ans ✔ 1. C_4H_{10}

✗ 2. C_2H_6

✗ 3. C_3H_8

✗ 4. CH_4

Q.85 Which of the following properties is NOT shown by bleaching powder?

Ans ✔ 1. Reducing agent

✘ 2. In water purification

✘ 3. For bleaching cotton fibre

✘ 4. Oxidising agent

Question ID : 7518973475
Option 1 ID : 75189713897
Option 2 ID : 75189713900
Option 3 ID : 75189713898
Option 4 ID : 75189713899
Status : **Answered**
Chosen Option : **4**

Q.86 Who among the following freedom fighters has been honoured with the title of 'The Iron Man Of India'?

Ans ✘ 1. Jawaharlal Nehru

✔ 2. Vallabhbhai Patel

✘ 3. Vithalbhai Patel

✘ 4. Ram Manohar Lohia

Question ID : 7518978847
Option 1 ID : 75189735385
Option 2 ID : 75189735388
Option 3 ID : 75189735386
Option 4 ID : 75189735387
Status : **Answered**
Chosen Option : **2**

Q.87 Rakesh and Raman have their houses in an eight-storeyed building. The lower most floor of the building is numbered as one and the top most floor is numbered as eight. Rakesh's house is just above Raman's floor. Every Day Raman has to go three floors down to drop his son to school which is nearby. On which floor Rakesh Lives?

Ans ✘ 1. 3rd

✘ 2. 6th

✘ 3. 4th

✔ 4. 5th

Question ID : 7518977896
Option 1 ID : 75189731584
Option 2 ID : 75189731583
Option 3 ID : 75189731581
Option 4 ID : 75189731582
Status : **Answered**
Chosen Option : **3**

Q.88 The marked price of an article is ₹100. If the article is sold at a discount of 25%, then 25% profit is realised. The percentage loss or percentage profit made (approximately)if it is sold for ₹20 less than the marked price is:

Ans ✗ 1. 35% loss

✗ 2. $12\frac{1}{2}\%$ loss

✗ 3. 25% profit

✔ 4. $33\frac{1}{3}\%$ profit

Question ID : **7518979257**
Option 1 ID : **75189737028**
Option 2 ID : **75189737027**
Option 3 ID : **75189737026**
Option 4 ID : **75189737025**
Status : **Answered**
Chosen Option : **4**

Q.89 Which of the following is NOT a component of the male reproductive part of flower?

Ans ✗ 1. Pollen

✗ 2. Anther

✗ 3. Filament

✔ 4. Style

Question ID : **7518977851**
Option 1 ID : **75189731404**
Option 2 ID : **75189731403**
Option 3 ID : **75189731401**
Option 4 ID : **75189731402**
Status : **Answered**
Chosen Option : **4**

Q.90 A man goes from place A to B at a speed of 18 km/h and returns from B to A at a speed of 30 km/h using the same route. The average speed for the whole journey is:

Ans ✗ 1. $42\frac{1}{2}$ km/h

✗ 2. $52\frac{1}{2}$ km/h

✔ 3. $22\frac{1}{2}$ km/h

✗ 4. $32\frac{1}{2}$ km/h

Question ID : **7518978697**
Option 1 ID : **75189734786**
Option 2 ID : **75189734785**
Option 3 ID : **75189734788**
Option 4 ID : **75189734787**
Status : **Answered**
Chosen Option : **3**

Q.91 In plants, diffusion is mainly responsible for the process of transportation. However for transport of some substances, energy is needed. Which option shows the substances transported using energy from ATP?

Ans ✗ 1. Water, minerals and food

✔ 2. Food, amino acids and hormones

✗ 3. Water and minerals

✗ 4. Only amino acids

Question ID : 7518974544
Option 1 ID : 75189718175
Option 2 ID : 75189718176
Option 3 ID : 75189718173
Option 4 ID : 75189718174
Status : **Answered**
Chosen Option : **1**

Q.92 The newer, younger deposits of the flood plains called _____ are renewed almost every year, and hence are fertile, thus being ideal for intensive agriculture.

Ans ✗ 1. Tarai

✗ 2. Bangar

✗ 3. Bhabar

✔ 4. Khadar

Question ID : 7518978909
Option 1 ID : 75189735636
Option 2 ID : 75189735633
Option 3 ID : 75189735635
Option 4 ID : 75189735634
Status : **Answered**
Chosen Option : **2**

Q.93 _____ is a newsletter published by the Small Industries Development Bank of India (SIDBI) and Equifax.

Ans ✔ 1. Microfinance Pulse

✗ 2. Microfinance World

✗ 3. Microfinance Now

✗ 4. Microfinance Times

Question ID : 7518978548
Option 1 ID : 75189734189
Option 2 ID : 75189734192
Option 3 ID : 75189734191
Option 4 ID : 75189734190
Status : **Answered**
Chosen Option : **2**

Q.94 I, J, K, L, M, N and O are sitting along a circle facing at the centre and are playing cards. M is the immediate neighbour of I and L. J is second to the left of O. N is on the immediate right of I. What is the position of N?

Ans ✗ 1. 2ⁿᵈ to the left of L

✗ 2. 3ʳᵈ to the right of O

✓ 3. To the immediate left of J

✗ 4. 2ⁿᵈ to the right of K

Q.95 The total numbers of covalent bond in propane are _____.

Ans ✗ 1. 7

✗ 2. 12

✗ 3. 8

✓ 4. 10

Q.96 A solid cube with an edge of 10 cm is cast into cuboids of dimensions 4 cm × 2 cm × 1 cm. The number of such cuboids that can be cast through it is:

Ans ✗ 1. 120

✗ 2. 130

✗ 3. 100

✓ 4. 125

Q.97 Which of the following options correctly describes the features of arteries?

Ans   ✗ 1.
Thick walls, blood flows under low pressure, collect blood from different parts of the body

✔ 2.
Thick walls, no valves, blood flows under high pressure, carry blood to different parts of the body

✗ 3.
Thin walls with valves, blood flows under low pressure, collect blood from different parts of the body

✗ 4.
Thin walls with valves, blood flows under high pressure, carry blood to different parts of the body

Question ID : **7518974597**
Option 1 ID : **75189718385**
Option 2 ID : **75189718388**
Option 3 ID : **75189718386**
Option 4 ID : **75189718387**
Status : **Answered**
Chosen Option : **3**

Q.98 Which two signs should be interchanged to make the following equation correct?

$33 + 4 \times 21 \div 3 - 17 = 122$

Ans   ✗ 1. $\div$ and $-$

✗ 2. $+$ and $-$

✔ 3. $+$ and $\times$

✗ 4. $-$ and $\times$

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 mats are figs.

All figs are clips.
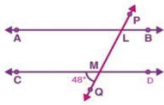
No clip is a stand.

Conclusions:

I. All mats being stands is a possibility.

II. Some clips are mats.

Ans

✗ 1. Only conclusion I follows

✗ 2. Both conclusions I and II follow

✔ 3. Only conclusion II follows

✗ 4. Neither conclusion I nor II follows

Question ID : **7518977315**
Option 1 ID : **75189729259**
Option 2 ID : **75189729257**
Option 3 ID : **75189729258**
Option 4 ID : **75189729260**
Status : **Answered**
Chosen Option : **3**

Q.100 In the given figure, AB and CD are parallel lines intersected by a transversal PQ at L and M, respectively. If ∠CMQ = 48°, then ∠PLA is:

Ans

✔ 1. 132°

✗ 2. 110°

✗ 3. 125°

✗ 4. 120°

Question ID : **7518979331**
Option 1 ID : **75189737323**
Option 2 ID : **75189737321**
Option 3 ID : **75189737324**
Option 4 ID : **75189737322**
Status : **Answered**
Chosen Option : **1**

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