RRB GROUP - D SHIFT – 1 (16-09-2022)

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Test Date	16/09/2022
Test Time	9:00 AM - 10:30 AM
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 As per the Railway Budget of India 2022-23, the Finance Minister announced the production of 400 new Vande Bharat trains in three years and _____ km of the rail network will be brought under 'Kavach'.

Ans
✗ 1. 3500
✔ 2. 2000
✗ 3. 4000
✗ 4. 3000

Question ID : **7518977501**
Option 1 ID : **75189730003**
Option 2 ID : **75189730001**
Option 3 ID : **75189730004**
Option 4 ID : **75189730002**
Status : **Not Answered**
Chosen Option : **--**

Q.2 The average weight of 6 persons increases by 2 kg when one of them whose weight is 72 kg is replaced by a new man. The weight of the new man is:

Ans
✗ 1. 94 kg
✗ 2. 104 kg
✗ 3. 74 kg
✔ 4. 84 kg

Question ID : **7518978715**
Option 1 ID : **75189734858**
Option 2 ID : **75189734857**
Option 3 ID : **75189734860**
Option 4 ID : **75189734859**
Status : **Answered**
Chosen Option : **4**

Q.3 A vendor sells 10 pens for ₹7. He earns a profit of 40%. The cost price of one pen is:

Ans
- ✗ 1. ₹0.60
- ✗ 2. ₹0.56
- ✔ 3. ₹0.50
- ✗ 4. ₹0.45

Q.4 In which year was Mendeleev's Periodic Table published in a German journal?

Ans
- ✗ 1. 1892
- ✗ 2. 1862
- ✔ 3. 1872
- ✗ 4. 1852

Q.5 Three statements are given, followed by four conclusions numbered I, II, III and IV. 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:
1. Some pants are coats.
2. All coats are red.
3. All red are shirts.

Conclusions:
I. All pants are shirts.
II. All coats are shirts.
III. Some red are coats.
IV. Some shirts are pants.

Ans
- ✔ 1. Only conclusions II, III and IV follow
- ✗ 2. Only conclusions I, II and III follow
- ✗ 3. All the conclusions follow
- ✗ 4. Only conclusions I, III and IV follow

Q.6 Who among the following is considered as the first Tirthankara of Jainism?

Ans ✗ 1. Neminath

✗ 2. Parshvanath

✗ 3. Vardhaman Mahavira

✔ 4. Rishabhanatha

Question ID : **7518974207**
Option 1 ID : **75189716827**
Option 2 ID : **75189716826**
Option 3 ID : **75189716825**
Option 4 ID : **75189716828**
Status : **Answered**
Chosen Option : **2**

Q.7 Refer to the following letter, number, symbol series and answer the question that follows.

(Left) A D 4 F @ T 5 H $ B R @ V T 6 # 7 H 6 D 8 $ % & G $ 3 C F (Right)

If all the symbols are dropped from the series, which of the following will be ninth to the left of the fifth from the right?

Ans ✗ 1. R

✗ 2. V

✗ 3. H

✔ 4. B

Question ID : **7518977974**
Option 1 ID : **75189731895**
Option 2 ID : **75189731896**
Option 3 ID : **75189731893**
Option 4 ID : **75189731894**
Status : **Answered**
Chosen Option : **4**

Q.8 Complete the given homologous series of alcohols by choosing the correct option.

CH_3OH, C_2H_5OH, _____, C_4H_9OH

Ans ✔ 1. C_3H_7OH

✗ 2. $C_5H_{12}OH$

✗ 3. $C_5H_{10}OH$

✗ 4. C_3H_6OH

Question ID : **75189710311**
Option 1 ID : **75189741242**
Option 2 ID : **75189741244**
Option 3 ID : **75189741243**
Option 4 ID : **75189741241**
Status : **Answered**
Chosen Option : **1**

Q.9 The HCF and the LCM of two numbers are 44 and 264, respectively. If one of the numbers is $\frac{3}{2}$ times of the other, what is the smaller number?

Ans ✔ 1. 88

✘ 2. 132

✘ 3. 176

✘ 4. 44

Question ID : **7518979919**
Option 1 ID : **75189739674**
Option 2 ID : **75189739675**
Option 3 ID : **75189739676**
Option 4 ID : **75189739673**
Status : **Answered**
Chosen Option : **1**

Q.10 Which of the following types of epithelial tissues form a lining of lung alveoli?

Ans ✘ 1. Columnar

✘ 2. Ciliated columnar

✔ 3. Squamous

✘ 4. Cuboidal

Question ID : **7518977812**
Option 1 ID : **75189731247**
Option 2 ID : **75189731248**
Option 3 ID : **75189731245**
Option 4 ID : **75189731246**
Status : **Answered**
Chosen Option : **1**

Q.11 If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', what will come in place of the question mark (?) in the following equation?

$76 \div 5 - 6 \times 3 \div 4 = ?$

Ans ✘ 1. 68

✘ 2. 72

✔ 3. 70

✘ 4. 71

Question ID : **75189710948**
Option 1 ID : **75189743792**
Option 2 ID : **75189743791**
Option 3 ID : **75189743789**
Option 4 ID : **75189743790**
Status : **Answered**
Chosen Option : **3**

Q.12 If the three sides of a triangle are in the ratio 7 : 5 : 4 and its perimeter 48 m, then the area of triangle is:

Ans

✔ 1. $36\sqrt{6} \text{ m}^2$

✘ 2. 34 m^2

✘ 3. $39\sqrt{6} \text{ m}^2$

✘ 4. $37\sqrt{6} \text{ m}^2$

Q.13 reflected ray passes through principal focus when incident ray:

Ans

✔ 1. is parallel to principal axis of concave mirror

✘ 2. is passing through C of convex mirror

✘ 3. is parallel to principal axis of convex mirror

✘ 4. is incident at the pole of plane mirror

Q.14 Evaluate 95 × 103.

Ans

✘ 1. 9685

✘ 2. 9755

✔ 3. 9785

✘ 4. 9655

Q.15 In this question, a group of letters is coded using symbols as per the table given below and the conditions which follow. The correct combination of codes following the conditions is your answer.

Letters	D	C	U	Q	I	A	R	E
Codes	@	>	^	%	=	#	$	+

Conditions:
  i.   If the first letter of the word is a vowel and last letter is a consonant, then both these letters will be coded as '*'.
  ii. If the second letter of the word is a vowel and the fifth letter is a consonant, then both these letters will be coded as '&'.
What will be the code for the word 'ACQUIRED'?

Ans ✗ 1. * > % = ^ \$ + *

✔ 2. * > % ^ = \$ + *

✗ 3. # > % ^ = \$ + @

✗ 4. * > % ^ = \$ + @

Q.16 Select the option that represents the letters that, when placed from left to right in the same sequence in the blanks below, will complete the letter series.

_ _ b a d c _ _ d _ b a d c b _

Ans ✗ 1. dcbaac

✗ 2. cdabca

✔ 3. dcbaca

✗ 4. dbcaca

Q.17 This question is based on the following 3-letter words.

AIN, ONK, AST, EJO

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel ?

Ans ✗ 1. 3

✗ 2. 2

✗ 3. 4

✔ 4. 1

Q.18 U, V, W, X, Y and Z live on different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2, and so on till the topmost floor is numbered 6. Z lives on the floor immediately above Y. Only one person lives between U and V. W lives immediately above Z and immediately below V. Who lives on the second floor?

Ans ✔ 1. Z

✘ 2. V

✘ 3. U

✘ 4. W

Q.19 Consider the below statements and identify the correct answer.

Statement-I: The metals high up in the reactivity series are not reactive.

Statement-II: The metals high up in the reactivity series can be obtained from their compounds by heating with carbon.

Ans ✘ 1. Both the statements are true.

✘ 2. Statement-II is true, and Statement-I is false.

✘ 3. Statement-I is true, and Statement-II is false.

✔ 4. Both the statements are false.

Q.20 The sum of all the interior angles of a heptagon is equal to

Ans ✘ 1. 720°

✔ 2. 900°

✘ 3. 540°

✘ 4. 810°

Q.21 Two plates and three spoons cost is ₹86. The cost of four plates and a spoon is ₹112. The difference between the cost of a plate and that of a spoon is _____.

Ans
✗ 1. ₹16

✔ 2. ₹13

✗ 3. ₹26

✗ 4. ₹18

Question ID : **75189710696**
Option 1 ID : **75189742784**
Option 2 ID : **75189742783**
Option 3 ID : **75189742781**
Option 4 ID : **75189742782**
Status : **Answered**
Chosen Option : **2**

Q.22 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons.
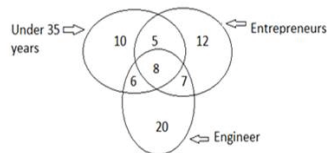
How many person under 35 years of age are Engineers but NOT Entrepreneurs?

Ans
✗ 1. 7

✗ 2. 5

✔ 3. 6

✗ 4. 8

Question ID : **75189710789**
Option 1 ID : **75189743155**
Option 2 ID : **75189743153**
Option 3 ID : **75189743154**
Option 4 ID : **75189743156**
Status : **Answered**
Chosen Option : **3**

Q.23 Why is carbon monoxide an air pollutant?

Ans
✗ 1. Because it is converted into carbon dioxide

✗ 2. Because it is present in vehicle exhaust

✗ 3. Because it can kills RBCs

✔ 4. Because it is reduces oxygen carrying capacity of blood

Question ID : **75189710125**
Option 1 ID : **75189740500**
Option 2 ID : **75189740499**
Option 3 ID : **75189740497**
Option 4 ID : **75189740498**
Status : **Answered**
Chosen Option : **4**

Q.24 The concept of judicial review in Constitution of India has been taken from the Constitution of which country?

Ans
✗ 1. Australia

✔ 2. United states of America

✗ 3. New Zealand

✗ 4. United Kingdom

Question ID : **7518977563**
Option 1 ID : **75189730252**
Option 2 ID : **75189730249**
Option 3 ID : **75189730251**
Option 4 ID : **75189730250**
Status : **Answered**
Chosen Option : **4**

Q.25 A certain number of people are sitting in a row, facing North. P is an immediate neighbour of both V and T, while R is an immediate neighbour of both T and Q. V is at the extreme right end. There are only two people on the left of Q. If no other person is sitting in the row, what is the total number of persons seated?

Ans
✗ 1. Eight

✔ 2. Seven

✗ 3. Nine

✗ 4. Six

Question ID : **75189710767**
Option 1 ID : **75189743065**
Option 2 ID : **75189743068**
Option 3 ID : **75189743066**
Option 4 ID : **75189743067**
Status : **Answered**
Chosen Option : **2**

Q.26 16 men can do a piece of work in 5 days. The number of men required to complete the same work in 20 days is:

Ans
✗ 1. 5

✔ 2. 4

✗ 3. 3

✗ 4. 6

Question ID : **7518979961**
Option 1 ID : **75189739843**
Option 2 ID : **75189739842**
Option 3 ID : **75189739841**
Option 4 ID : **75189739844**
Status : **Answered**
Chosen Option : **2**

Q.27 Who among the following became the first Indian woman sailor to qualify for the Olympics in April 2021?

Ans

✗ 1. Aishwarya Nedunchezhiyan

✔ 2. Nethra Kumanan

✗ 3. Sweta Shervegar

✗ 4. Varsha Gautham

Question ID : **75189710403**
Option 1 ID : **75189741611**
Option 2 ID : **75189741609**
Option 3 ID : **75189741612**
Option 4 ID : **75189741610**
Status : **Answered**
Chosen Option : **2**

Q.28 The cost price of 42 articles is equal to the selling price of 36 articles. What is the gain or loss made in the transaction?

Ans

✗ 1. $16\frac{2}{3}\%$ loss

✗ 2. $14\frac{1}{7}\%$ loss

✗ 3. $14\frac{1}{7}\%$ gain

✔ 4. $16\frac{2}{3}\%$ gain

Question ID : **75189710660**
Option 1 ID : **75189742637**
Option 2 ID : **75189742640**
Option 3 ID : **75189742638**
Option 4 ID : **75189742639**
Status : **Answered**
Chosen Option : **4**

Q.29 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	*	2	@	5	^	+	7	#	%	9
Letter code	J	P	A	F	D	N	R	K	M	Z

Conditions:
(i) If the first element is a symbol and the last, 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, an even number, the first and last elements are to be coded as S.
Which of the following will be the code for 75#2 ?

Ans
✗ 1. RFK$
✔ 2. FK
✗ 3. FM
✗ 4. RFKP

Question ID : 75189710876
Option 1 ID : 75189743501
Option 2 ID : 75189743503
Option 3 ID : 75189743502
Option 4 ID : 75189743504
Status : **Answered**
Chosen Option : **2**

Q.30 Which of the following Acts was aimed to provide for the extension of the provisions of Part IX of the Constitution relating to the Panchayats to the Scheduled Areas?

Ans
✗ 1. MESA Act 1996
✔ 2. PESA Act 1996
✗ 3. NESA Act 1996
✗ 4. DESA Act 1996

Question ID : 75189710611
Option 1 ID : 75189742443
Option 2 ID : 75189742441
Option 3 ID : 75189742444
Option 4 ID : 75189742442
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.31 If ₹1,368 is divided into two parts in the ratio of 5 : 3, then the amount (in ₹) in the greater part is _____.

Ans
✗ 1. 444.72
✗ 2. 585.00
✗ 3. 268.80
✔ 4. 855.00

Question ID : 75189710644
Option 1 ID : 75189742574
Option 2 ID : 75189742576
Option 3 ID : 75189742573
Option 4 ID : 75189742575
Status : **Answered**
Chosen Option : **4**

Q.32 The number of non-square numbers between 87^2 and 88^2 is:

Ans
✗ 1. 154

✗ 2. 184

✔ 3. 174

✗ 4. 164

Q.33 What will be the total amount payable on a sum of ₹12,500 after two years at the rate of 10% per annum if the interest is compounded annually?

Ans
✗ 1. ₹18,500

✔ 2. ₹15,125

✗ 3. ₹25,000

✗ 4. ₹17,790

Q.34 The value of $\dfrac{\sqrt{1296}}{\sqrt{121}} \times \dfrac{15}{(216)^{1/3}} \times \dfrac{11}{\sqrt{225}}$ is _____.

Ans
✗ 1. 36

✗ 2. 15

✔ 3. 6

✗ 4. 11

Q.35 What is the suffix in the name Propanoic Acid?

Ans
✔ 1. oic acid

✘ 2. Propane

✘ 3. ane

✘ 4. Prop

Question ID : **7518979593**
Option 1 ID : **75189738371**
Option 2 ID : **75189738370**
Option 3 ID : **75189738372**
Option 4 ID : **75189738369**
Status : **Answered**
Chosen Option : **1**

Q.36 How many elements are present in the 7th period of the Modern Periodic table?

Ans
✘ 1. 8

✘ 2. 2

✔ 3. 32

✘ 4. 18

Question ID : **7518979691**
Option 1 ID : **75189738762**
Option 2 ID : **75189738761**
Option 3 ID : **75189738763**
Option 4 ID : **75189738764**
Status : **Answered**
Chosen Option : **3**

Q.37 A bulb draws 36 W when connected to a 12- V supply. If it is connected to a 6V supply then power consumed will be:

Ans
✘ 1. 6W

✘ 2. 24 W

✘ 3. 12W

✔ 4. 9W

Question ID : **75189711365**
Option 1 ID : **75189745460**
Option 2 ID : **75189745458**
Option 3 ID : **75189745457**
Option 4 ID : **75189745459**
Status : **Answered**
Chosen Option : **4**

Q.38 Five persons are sitting in a straight row facing the north. Ram is sitting at the extreme left end and Sita is sitting at the extreme right end of the row. Kamal sits exactly in the middle of the row. Ravi is sitting exactly third to the left of Sita. Ritu is sitting exactly third to the right of Ram. Who is the immediate neighbour of Sita?

Ans
✖ 1. Ravi

✖ 2. Ram

✖ 3. Kamal

✔ 4. Ritu

Question ID : **75189710976**
Option 1 ID : **75189743903**
Option 2 ID : **75189743902**
Option 3 ID : **75189743901**
Option 4 ID : **75189743904**
Status : **Answered**
Chosen Option : **4**

Q.39 Who was awarded the 2021 DST-ICTP-IMU Ramanujan Prize for Young Mathematicians from developing countries for her outstanding work in affine algebraic geometry and commutative algebra?

Ans
✖ 1. Amalendu Krishna

✖ 2. Ritabrata Munshi

✔ 3. Neena Gupta

✖ 4. Ramdorai Sujatha

Question ID : **75189710405**
Option 1 ID : **75189741618**
Option 2 ID : **75189741619**
Option 3 ID : **75189741620**
Option 4 ID : **75189741617**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.40 The salary of a person is ₹2,00,000. If he saves an amount of ₹88,000, then the person saves _____ of his salary.

Ans
✔ 1. 44.00%

✖ 2. 42.85%

✖ 3. 42.74%

✖ 4. 44.20%

Question ID : **75189710641**
Option 1 ID : **75189742562**
Option 2 ID : **75189742564**
Option 3 ID : **75189742563**
Option 4 ID : **75189742561**
Status : **Answered**
Chosen Option : **1**

Q.41 In a house, a refrigerator set rated as 350 W is operated for 8 hours/day, a TV set rated as 150 W is operated for 5 hours/day, and an electric heater rated as 1500 W is operated for 30 minutes/day. If the energy cost per unit is ₹5.00, then the total expenditure of that house for 10 days for the TV set, refrigerator and electric heater will be:

Ans

✗ 1. ₹220/-

✗ 2. ₹230/-

✔ 3. ₹215 /-

✗ 4. ₹225/-

Question ID : **75189711351**
Option 1 ID : **75189745402**
Option 2 ID : **75189745404**
Option 3 ID : **75189745401**
Option 4 ID : **75189745403**
Status : **Answered**
Chosen Option : **3**

Q.42 Six friends C, D, E, F, G and H are sitting in a row facing north. F is 2nd to the left of E, who is 2nd to the left of G. D is 2nd to the right of H, who is an immediate neighbour of E and G. Where is C seated?

Ans

✗ 1. At the left end

✔ 2. Between E and F

✗ 3. Between H and D

✗ 4. At the right end

Question ID : **7518979710**
Option 1 ID : **75189738839**
Option 2 ID : **75189738837**
Option 3 ID : **75189738838**
Option 4 ID : **75189738840**
Status : **Answered**
Chosen Option : **2**

Q.43 Consider two wires of the same material, but the ratio of their cross-sectional areas is 1 : 10 and the ratio of their lengths is 2 : 5. If the same 10 V battery is connected across these two wires separately, what will be the ratio of the current flow in these two wires?

Ans

✔ 1. 1 : 4

✗ 2. 4 : 1

✗ 3. 1 : 25

✗ 4. 25 : 1

Question ID : **75189711323**
Option 1 ID : **75189745289**
Option 2 ID : **75189745290**
Option 3 ID : **75189745291**
Option 4 ID : **75189745292**
Status : **Answered**
Chosen Option : **1**

Q.44 In the given letter-cluster pairs, the first letter-cluster is related to the second letter-cluster following a certain logic.
Study the given pairs carefully, and from the given options, select the pair that follows the same logic.

MCD : PZG

LKG : OHJ

Ans
  ✗ 1. QDH : TGK

  ✗ 2. PBX : SEA

  ✔ 3. TJQ : WGT

  ✗ 4. NYB : QVY

Question ID : **7518977378**
Option 1 ID : **75189729509**
Option 2 ID : **75189729512**
Option 3 ID : **75189729511**
Option 4 ID : **75189729510**
Status : **Answered**
Chosen Option : **3**

Q.45 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 /deleting /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)

(76, 171, 95)

(28, 63, 35)

Ans
  ✗ 1. (44, 88, 55)

  ✗ 2. (60, 105, 70)

  ✗ 3. (24, 48, 30)

  ✔ 4. (52, 117, 65)

Question ID : **75189710936**
Option 1 ID : **75189743743**
Option 2 ID : **75189743741**
Option 3 ID : **75189743744**
Option 4 ID : **75189743742**
Status : **Answered**
Chosen Option : **4**

Q.46 Akshay starts from the restaurant and travels 2 km southwards and then turns right and travels 4 km. He then turns left and travels 10km, then he turns left and travel 4km to reach his home. What is the shortest distance between the restaurant and home and what is restaurant's direction with respect to the home?

Ans
  ✔ 1. 12 km, North

  ✗ 2. 8 km, South

  ✗ 3. 8 km, North

  ✗ 4. 12 km, South

Question ID : **75189710891**
Option 1 ID : **75189743561**
Option 2 ID : **75189743564**
Option 3 ID : **75189743563**
Option 4 ID : **75189743562**
Status : **Answered**
Chosen Option : **1**

Q.47 In an electric circuit, if power, voltage and resistance are represented by P, V and R, respectively, then the correct relation between them is:

Ans

✔ 1. $P = \dfrac{V^2}{R}$

✘ 2. $P = VR^2$

✘ 3. $P = \dfrac{V^2}{R^2}$

✘ 4. $P = V^2R$

Question ID : **75189711352**
Option 1 ID : **75189745407**
Option 2 ID : **75189745406**
Option 3 ID : **75189745408**
Option 4 ID : **75189745405**
Status : **Answered**
Chosen Option : **1**

Q.48 Where in India is the Sree Sankaracharya University of Sanskrit situated?

Ans

✔ 1. Kerala

✘ 2. Maharashtra

✘ 3. West Bengal

✘ 4. Assam

Question ID : **75189710438**
Option 1 ID : **75189741750**
Option 2 ID : **75189741751**
Option 3 ID : **75189741752**
Option 4 ID : **75189741749**
Status : **Answered**
Chosen Option : **1**

Q.49 Which of the following is similar to the plasma of blood but is colourless and contains less protein?

Ans

✘ 1. RBC

✘ 2. WBC

✔ 3. Lymph

✘ 4. Platelets

Question ID : **75189710211**
Option 1 ID : **75189740841**
Option 2 ID : **75189740842**
Option 3 ID : **75189740843**
Option 4 ID : **75189740844**
Status : **Answered**
Chosen Option : **4**

Q.50 If α, β are the roots of the quadratic equation $x^2 - 11x + 18 = 0$, then the value of $\alpha^2 + \beta^2$ is:

Ans

✗ 1. 105

✗ 2. 75

✔ 3. 85

✗ 4. 95

Question ID : **7518978774**
Option 1 ID : **75189735093**
Option 2 ID : **75189735096**
Option 3 ID : **75189735095**
Option 4 ID : **75189735094**
Status : **Answered**
Chosen Option : **3**

Q.51 This question is based on the five, three-digit numbers given below.

(Left) 653 831 933 476 715 (Right)

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

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

If 2 is added to the third digit of every number, in how many numbers will the third digit be exactly divided by the second digit of that number?

Ans

✗ 1. 2

✔ 2. 3

✗ 3. 1

✗ 4. 4

Question ID : **7518979180**
Option 1 ID : **75189736718**
Option 2 ID : **75189736719**
Option 3 ID : **75189736717**
Option 4 ID : **75189736720**
Status : **Answered**
Chosen Option : **1**

Q.52 If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of the question mark (?) in the following equation?

88 × 22 − 15 ÷ 40 + 19 = ?

Ans

✗ 1. 91

✗ 2. 101

✔ 3. 81

✗ 4. 201

Question ID : **7518979889**
Option 1 ID : **75189739554**
Option 2 ID : **75189739555**
Option 3 ID : **75189739553**
Option 4 ID : **75189739556**
Status : **Answered**
Chosen Option : **3**

Q.53 $\sec^2\theta + (\csc^2\theta - 1) - (1 + \tan^2\theta) - \cot^2\theta = $ _____ .

Ans

✗ 1. $\sec^2\theta$

✗ 2. 1

✓ 3. 0

✗ 4. $\cot^2\theta$

Question ID : **75189710725**
Option 1 ID : **75189742898**
Option 2 ID : **75189742900**
Option 3 ID : **75189742899**
Option 4 ID : **75189742897**
Status : **Answered**
Chosen Option : **3**

Q.54 Naresh deposited a sum of ₹10,000 at 10% rate of interest per annum, compounded annually. The total amount received by Naresh after 2 years is:

Ans

✗ 1. ₹12,010

✗ 2. ₹12,200

✗ 3. ₹12,000

✓ 4. ₹12,100

Question ID : **7518979939**
Option 1 ID : **75189739755**
Option 2 ID : **75189739753**
Option 3 ID : **75189739756**
Option 4 ID : **75189739754**
Status : **Answered**
Chosen Option : **4**

Q.55 Seven businessmen, G, H, I, J, K, L and M, travelled in the same month on different dates 4th, 8th, 11th, 14th, 17th, 22nd and 28th (but not necessarily in the same order). L travelled the last. K travelled just after I but before J. K travelled on the 11th. Only two people travelled between K and M. Exactly one person travelled between G and K, and K travelled after G. On which date did M travel?

Ans

✗ 1. 28th

✗ 2. 17th

✗ 3. 4th

✓ 4. 22nd

Question ID : **75189710985**
Option 1 ID : **75189743940**
Option 2 ID : **75189743937**
Option 3 ID : **75189743939**
Option 4 ID : **75189743938**
Status : **Answered**
Chosen Option : **4**

Q.56 As of the year 2021, which of the following states/union territories produces the largest quantity of apples?

Ans ✔ 1. Jammu & Kashmir

✘ 2. Ladakh

✘ 3. Himachal Pradesh

✘ 4. Uttarakhand

Question ID : **75189710595**
Option 1 ID : **75189742377**
Option 2 ID : **75189742380**
Option 3 ID : **75189742378**
Option 4 ID : **75189742379**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.57 Radhika moves 30 metres in West direction. Then she turns to her right and moves 10 metres and then she turns to her left and moves 30 metres. In which direction is she now from the starting point?

Ans ✘ 1. East

✘ 2. South

✘ 3. North- East

✔ 4. North-West

Question ID : **75189710899**
Option 1 ID : **75189743593**
Option 2 ID : **75189743596**
Option 3 ID : **75189743594**
Option 4 ID : **75189743595**
Status : **Answered**
Chosen Option : **4**

Q.58 As per National Statistics office , the work population ratio (WPR) in India is at _____ for July 2020 - June 2021.

Ans ✔ 1. 39.8%

✘ 2. 35.6%

✘ 3. 45.7%

✘ 4. 49.1%

Question ID : **7518979405**
Option 1 ID : **75189737617**
Option 2 ID : **75189737619**
Option 3 ID : **75189737620**
Option 4 ID : **75189737618**
Status : **Not Answered**
Chosen Option : **--**

Q.59 If the sum of the LCM and the HCF of two numbers is 1050 and if their HCF is 630 less than their LCM, then the product of those two numbers is _____.

Ans

  ✗ 1. 630000

  ✓ 2. 176400

  ✗ 3. 10500

  ✗ 4. 661500

Question ID : **75189710636**
Option 1 ID : **75189742543**
Option 2 ID : **75189742542**
Option 3 ID : **75189742544**
Option 4 ID : **75189742541**
Status : **Answered**
Chosen Option : **2**

Q.60 When an object is kept at the centre of curvature of a concave mirror, the image will be formed at:

Ans

  ✓ 1. the centre of curvature

  ✗ 2. infinity

  ✗ 3. the position behind the mirror

  ✗ 4. the principal focus

Question ID : **75189711142**
Option 1 ID : **75189744567**
Option 2 ID : **75189744565**
Option 3 ID : **75189744568**
Option 4 ID : **75189744566**
Status : **Answered**
Chosen Option : **1**

Q.61 A's age is seven times B's age. If the sum of their ages is 48 years, then their ages are:

Ans

  ✗ 1. 35 and 5

  ✓ 2. 42 and 6

  ✗ 3. 40 and 8

  ✗ 4. 46 and 6

Question ID : **7518979295**
Option 1 ID : **75189737177**
Option 2 ID : **75189737180**
Option 3 ID : **75189737179**
Option 4 ID : **75189737178**
Status : **Answered**
Chosen Option : **2**

Q.62 In this question, a statement is followed by four conclusions. Find out which conclusion is true based on the given statement.

Statement:

$I \geq R > U \leq T > Q \geq O$

Conclusions:

1. $I > U$

2. $O > T$

3. $R > T$

4. $U < Q$

Ans ✔ 1. 1

✘ 2. 2

✘ 3. 4

✘ 4. 3

Q.63 Which of the following is related to the Chipko Andolan Movement?

Ans ✘ 1. Pollution

✘ 2. Coal

✘ 3. Water

✔ 4. Forest

Q.64 Which was the first microfinance institution in the country to win a bank license in 2014 by RBI?

Ans ✘ 1. Madura Micro Finance Ltd

✔ 2. Bandhan Financial Services Pvt Ltd

✘ 3. Annapurna Financial Services Pvt Ltd

✘ 4. BSS Microfinance Bangalore Pvt Ltd

Q.65 The position of how many letters will remain unchanged if each of the letters in the word ARGUMENT is arranged in alphabetical order?

Ans

✗ 1. None

✗ 2. One

✓ 3. Two

✗ 4. Three

Question ID : **75189710835**
Option 1 ID : **75189743340**
Option 2 ID : **75189743337**
Option 3 ID : **75189743338**
Option 4 ID : **75189743339**
Status : **Answered**
Chosen Option : **3**

Q.66 Which of the following is India's coldest inhabited place?

Ans

✗ 1. Jammu

✓ 2. Drass

✗ 3. Shimla

✗ 4. Mount Abu

Question ID : **75189710586**
Option 1 ID : **75189742343**
Option 2 ID : **75189742342**
Option 3 ID : **75189742341**
Option 4 ID : **75189742344**
Status : **Answered**
Chosen Option : **2**

Q.67 The *Swaminarayan Sampraday* was established by Bhagwan *Swaminarayan* over 200 years ago in the present day state of _____.

Ans

✗ 1. Rajasthan

✗ 2. Himachal Pradesh

✓ 3. Gujarat

✗ 4. Madhya Pradesh

Question ID : **7518977180**
Option 1 ID : **75189728717**
Option 2 ID : **75189728720**
Option 3 ID : **75189728719**
Option 4 ID : **75189728718**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.68 When zinc granules react with dilute sulphuric acid, a colourless gas is produced which burns with a:

Ans
✓ 1. pop sound

✗ 2. yellow flame

✗ 3. green flame

✗ 4. reddish flame

Q.69 If $5^{n+2} = 3125$, then n = _____.

Ans
✗ 1. 4

✓ 2. 3

✗ 3. 2

✗ 4. 5

Q.70 Amongst six friends P, Q, R, S, T and U, each has a different height. R is taller than only two other friends. T is shorter than only one friend. Q is shorter than R but taller than P. S is shorter than U. Who is the second tallest among all the friends?

Ans
✓ 1. T

✗ 2. R

✗ 3. U

✗ 4. S

Q.71 What is the full form of UNEP

Ans ✗ 1. United Nations Educational Programme

✗ 2. United Nations Empowerment Programme

✗ 3. United Nations Environmental Protection

✔ 4. United Nations Environment Programme

Question ID : **7518977861**
Option 1 ID : **75189731442**
Option 2 ID : **75189731441**
Option 3 ID : **75189731444**
Option 4 ID : **75189731443**
Status : **Answered**
Chosen Option : **4**

Q.72 Three statements are given, followed by three conclusions numbered I, II and III. 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:

1. All statements are books.
2. Some books are copies.
3. No copy is a thesaurus.

Conclusions:

I. Some thesauruses are copies.
II. No statement is a thesaurus.
III. Some books are statements.

Ans ✔ 1. Only conclusions III follows

✗ 2. Only conclusions II and III follow

✗ 3. Only conclusions I and II follow

✗ 4. Only conclusion I follows

Question ID : **75189710780**
Option 1 ID : **75189743120**
Option 2 ID : **75189743118**
Option 3 ID : **75189743117**
Option 4 ID : **75189743119**
Status : **Answered**
Chosen Option : **1**

Q.73 The refractive index of fluid A is 1.47. This means:

Ans ✗ 1.

the speed of light in fluid A is 1.47 times greater than the speed of light in air

✗ 2.

the speed of light in fluid A is increased 1.47 times than the speed of light in water

✗ 3.

the speed of light in fluid A is 1.47 times greater than the speed of light in water

✔ 4.

the speed of light in fluid A is reduced by 1.47 times than the speed of light in vacuum

Question ID : **75189711279**
Option 1 ID : **75189745116**
Option 2 ID : **75189745113**
Option 3 ID : **75189745115**
Option 4 ID : **75189745114**
Status : **Answered**
Chosen Option : **4**

Q.74 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.

18 : 36 :: 42 : 51 :: 25 : ?

Ans ✗ 1. 48

✗ 2. 41

✗ 3. 45

✔ 4. 43

Question ID : **7518977728**
Option 1 ID : **75189730912**
Option 2 ID : **75189730909**
Option 3 ID : **75189730911**
Option 4 ID : **75189730910**
Status : **Answered**
Chosen Option : **4**

Q.75 Which of the following numbers will replace the question mark (?) in the given series?

22, 34, 48, 64, 82, ?

Ans ✔ 1. 102

✗ 2. 101

✗ 3. 98

✗ 4. 100

Question ID : **75189710917**
Option 1 ID : **75189743668**
Option 2 ID : **75189743667**
Option 3 ID : **75189743665**
Option 4 ID : **75189743666**
Status : **Answered**
Chosen Option : **1**

Q.76 Study the following table and answer the question.

Name of the Student	Marks		
	English	Maths	Computer
Arav	74	82	72
Toshita	71	92	49
Pranay	59	65	66
Vibhor	81	78	82

By what percentage is the total marks of Arav in the three subjects more than the total marks of Pranay in the three subjects?

Ans
✗ 1. 24%

✗ 2. 23%

✗ 3. 27%

✓ 4. 20%

Q.77 Where can a tall tree store its waste products?

Ans
✗ 1. In the bark tissue

✗ 2. In old roots

✗ 3. In intercellular spaces

✓ 4. In old xylem (heartwood)

Q.78 The average of the numbers 15, 17, 20, 25, 32 and 35 is:

Ans
✗ 1. 14

✗ 2. 28

✗ 3. 18

✓ 4. 24

Q.79 In December 2021 to improve the leadership skills of grassroot women political leaders, which of the following organisations launched a pan-India capacity building programme called 'She is a Changemaker' for women representatives at all levels?

Ans

✗ 1. National Human Rights Commission

✗ 2. National Commission for Backward Classes

✔ 3. National Commission for Women

✗ 4. National Commission for Minorities

Question ID : **7518979369**
Option 1 ID : **75189737476**
Option 2 ID : **75189737475**
Option 3 ID : **75189737473**
Option 4 ID : **75189737474**
Status : **Not Answered**
Chosen Option : **--**

Q.80 The total surface area (in m^2) of a cube, each of whose edges measures 4 m, is:

Ans

✗ 1. 108

✗ 2. 64

✔ 3. 96

✗ 4. 72

Question ID : **75189710031**
Option 1 ID : **75189740124**
Option 2 ID : **75189740121**
Option 3 ID : **75189740123**
Option 4 ID : **75189740122**
Status : **Answered**
Chosen Option : **3**

Q.81 Which of the following compounds is formed when lead nitrate is mixed with potassium iodide?

Ans

✗ 1. Lead carbide

✔ 2. Lead iodide

✗ 3. Lead nitride

✗ 4. Lead oxide

Question ID : **75189710347**
Option 1 ID : **75189741388**
Option 2 ID : **75189741386**
Option 3 ID : **75189741387**
Option 4 ID : **75189741385**
Status : **Answered**
Chosen Option : **2**

Q.82 Gurpurab is one of the holiest festivals of Sikhism, celebrated to commemorate the birth anniversary of:

Ans ✔ 1. Guru Nanak Dev

✘ 2. Guru Amar Das

✘ 3. Guru Tegh Bahadur

✘ 4. Guru Gobind Singh

Question ID : **7518974001**
Option 1 ID : **75189716003**
Option 2 ID : **75189716001**
Option 3 ID : **75189716004**
Option 4 ID : **75189716002**
Status : **Answered**
Chosen Option : **1**

Q.83 The percentages of people qualifying the driving test to get a license in different years is shown in the following graph. Study the graph and answer the question.
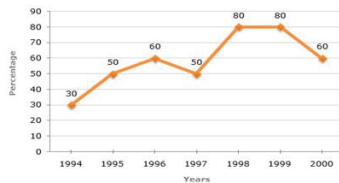
In the years 1996 and 1997 together, 45,000 people qualified the driving test. If in the year 1996, a total of 25,000 people took the driving test, then how many people took the test in the year 1997?

Ans ✘ 1. 70,000

✔ 2. 60,000

✘ 3. 30,000

✘ 4. 45,000

Question ID : **75189711247**
Option 1 ID : **75189744988**
Option 2 ID : **75189744987**
Option 3 ID : **75189744985**
Option 4 ID : **75189744986**
Status : **Answered**
Chosen Option : **2**

Q.84 In which season would sugar stored in root or stem tissue be transported to the buds which need energy to grow in plants?

Ans ✘ 1. Winter

✘ 2. Summer

✔ 3. Spring

✘ 4. Monsoon

Question ID : **75189710170**
Option 1 ID : **75189740677**
Option 2 ID : **75189740679**
Option 3 ID : **75189740678**
Option 4 ID : **75189740680**
Status : **Answered**
Chosen Option : **2**

Q.85 What will come in the place of '?' in the following equation, if '+' and '−' are interchanged and also '×' and '÷' are interchanged?

$4 ÷ 4 − 45 × 5 + 12 = ?$

Ans
✗ 1. 28

✗ 2. 35

✓ 3. 13

✗ 4. 15

Question ID : **75189710955**
Option 1 ID : **75189743818**
Option 2 ID : **75189743820**
Option 3 ID : **75189743819**
Option 4 ID : **75189743817**
Status : **Answered**
Chosen Option : **3**

Q.86 Which of the following Five-Year Plans was based on the Mahalanobis model?

Ans
✓ 1. Second Five-Year Plan

✗ 2. Third Five-Year Plan

✗ 3. First Five-Year Plan

✗ 4. Fourth Five-Year Plan

Question ID : **7518977517**
Option 1 ID : **75189730066**
Option 2 ID : **75189730067**
Option 3 ID : **75189730065**
Option 4 ID : **75189730068**
Status : **Answered**
Chosen Option : **1**

Q.87 Which of the following numbers will replace the question mark (?) in the given series?

9, 13, 22, 38, 63, ?

Ans
✓ 1. 99

✗ 2. 100

✗ 3. 72

✗ 4. 63

Question ID : **75189710915**
Option 1 ID : **75189743658**
Option 2 ID : **75189743660**
Option 3 ID : **75189743659**
Option 4 ID : **75189743657**
Status : **Answered**
Chosen Option : **1**

Q.88 What happens when quick lime reacts vigorously with water?

Ans ✗ 1. Dissociation reaction

✗ 2. Double displacement reaction

✓ 3. Exothermic reaction

✗ 4. Displacement reaction

Question ID : **7518979614**
Option 1 ID : **75189738454**
Option 2 ID : **75189738455**
Option 3 ID : **75189738456**
Option 4 ID : **75189738453**
Status : **Answered**
Chosen Option : **3**

Q.89 Find the value of $3^{-5} \times 4^{-5} \times 5^{-5}$.

Ans ✗ 1. $\dfrac{1}{30^5}$

✗ 2. $\dfrac{1}{40^5}$

✓ 3. $\dfrac{1}{60^5}$

✗ 4. $\dfrac{1}{50^5}$

Question ID : **7518979903**
Option 1 ID : **75189739609**
Option 2 ID : **75189739610**
Option 3 ID : **75189739612**
Option 4 ID : **75189739611**
Status : **Answered**
Chosen Option : **3**

Q.90 In 2022 scientists from which campus of Indian Institute of Science Education and Research (IISER) have successfully extracted more than 95 per cent of uranium from natural seawater during an experiment?

Ans ✗ 1. Bhopal

✗ 2. Tirupati

✗ 3. Mohali

✓ 4. Pune

Question ID : **7518979363**
Option 1 ID : **75189737451**
Option 2 ID : **75189737452**
Option 3 ID : **75189737450**
Option 4 ID : **75189737449**
Status : **Not Answered**
Chosen Option : **--**

Q.91 By which year does the National Education Policy 2020 aim for a 100% Gross Enrolment Ratio (GER) in school education?

Ans ✔ 1. 2030

✘ 2. 2023

✘ 3. 2025

✘ 4. 2027

Question ID : **75189711097**
Option 1 ID : **75189744388**
Option 2 ID : **75189744385**
Option 3 ID : **75189744386**
Option 4 ID : **75189744387**
Status : **Not Answered**
Chosen Option : **--**

Q.92 A diver rowing at the speed of 3 km/h in still water takes double the time going 50 km upstream compared to going 50 km downstream. The speed of the stream is:

Ans ✘ 1. $\frac{4}{3}$ km/h

✔ 2. 1 km/h

✘ 3. 3 km/h

✘ 4. $\frac{7}{3}$ km/h

Question ID : **7518979291**
Option 1 ID : **75189737161**
Option 2 ID : **75189737162**
Option 3 ID : **75189737164**
Option 4 ID : **75189737163**
Status : **Answered**
Chosen Option : **3**

Q.93 When magnetic lines of forces are more crowded in the region of magnetic field, this indicates the presence of:

Ans ✘ 1. magnetic south pole alone

✘ 2. weak magnetic field

✘ 3. magnetic north pole alone

✔ 4. strong magnetic field

Question ID : **75189711165**
Option 1 ID : **75189744660**
Option 2 ID : **75189744658**
Option 3 ID : **75189744659**
Option 4 ID : **75189744657**
Status : **Answered**
Chosen Option : **4**

Q.94 The_____ range is bounded by the Satpura range on the south and the Aravalis on the northwest.

Ans
✔ 1. Vindhyan

✘ 2. Kailash

✘ 3. Shivalik

✘ 4. Gir

Question ID : 7518977539
Option 1 ID : 75189730155
Option 2 ID : 75189730153
Option 3 ID : 75189730154
Option 4 ID : 75189730156
Status : **Answered**
Chosen Option : **1**

Q.95 Read the given statement and the arguments carefully and select the appropriate answer from the given options.

Statement:

All zoos should be banned except for endangered species of animals.

Arguments:

I.   Animals are not for human entertainment but for coexistence with humans.
II. Endangered species need our concern to maintain an ecological balance.

Ans
✔ 1. Both I and II strengthen the statement.

✘ 2. II weakens while I strengthens the statement.

✘ 3. Both I and II weaken the statement.

✘ 4. I weakens while II strengthens the statement.

Question ID : 75189711131
Option 1 ID : 75189744524
Option 2 ID : 75189744522
Option 3 ID : 75189744523
Option 4 ID : 75189744521
Status : **Answered**
Chosen Option : **1**

Q.96 Who was the Chairman of the Drafting Committee which had the task to prepare the draft of the Constitution?

Ans
✘ 1. N Goipalswami

✘ 2. Alladi Krishnaswami Ayyas

✔ 3. Dr. BR Ambedkar

✘ 4. Saijio Mola Saadulla

Question ID : 75189710489
Option 1 ID : 75189741954
Option 2 ID : 75189741955
Option 3 ID : 75189741953
Option 4 ID : 75189741956
Status : **Answered**
Chosen Option : **3**

Q.97 If two parallel lines are intersected by a transversal, then the internal bisectors of two pairs of interior angles necessarily enclose a _____.

Ans ✗ 1. square

✔ 2. rectangle

✗ 3. triangle

✗ 4. circle

Question ID : **75189710719**
Option 1 ID : **75189742873**
Option 2 ID : **75189742875**
Option 3 ID : **75189742876**
Option 4 ID : **75189742874**
Status : **Answered**
Chosen Option : **3**

Q.98 The rules of inheritance of traits in human beings are related to certain facts mentioned below. All of them are correct except one. Select the INCORRECT option.

Ans ✗ 1. Each trait can be influenced by paternal and maternal DNA

✗ 2. For each trait, there would be two versions in each child

✔ 3. For each trait, there would be a single version in each child

✗ 4.
Both mother and father contribute equal amount of genetic material to the child

Question ID : **7518974636**
Option 1 ID : **75189718542**
Option 2 ID : **75189718543**
Option 3 ID : **75189718544**
Option 4 ID : **75189718541**
Status : **Answered**
Chosen Option : **3**

Q.99 In the year 2021, the Indian men's hockey team defeated which country to win the bronze medal in Tokyo Olympics?

Ans ✗ 1. Pakistan

✗ 2. Australia

✔ 3. Germany

✗ 4. Belgium

Question ID : **7518976456**
Option 1 ID : **75189725821**
Option 2 ID : **75189725824**
Option 3 ID : **75189725822**
Option 4 ID : **75189725823**
Status : **Answered**
Chosen Option : **3**

Q.100 When a beam of light of wave lengths $4500\,\text{Å}$, $5400\,\text{Å}$, and $6000\,\text{Å}$ respectively are passed through a prism then the angle of deviation is:

Ans

✗ 1. more in light of $6000\,\text{Å}$

✗ 2. more in light of $5400\,\text{Å}$

✗ 3. equal in all

✓ 4. more in light of $4500\,\text{Å}$

Question ID : **7518979530**
Option 1 ID : **75189738119**
Option 2 ID : **75189738120**
Option 3 ID : **75189738118**
Option 4 ID : **75189738117**
Status : **Answered**
Chosen Option : **4**

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