RRB GROUP - D SHIFT – 3 (02-09-2022)

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Roll Number	
Candidate Name	
Test Center Name	
Test Date	02/09/2022
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 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. 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)

13 : 195 :: 11 : 143 :: 7 : ?

Ans ✘ 1. 91

✘ 2. 105

✘ 3. 107

✔ 4. 63

Question ID : 7518978053
Option 1 ID : 75189732211
Option 2 ID : 75189732210
Option 3 ID : 75189732212
Option 4 ID : 75189732209
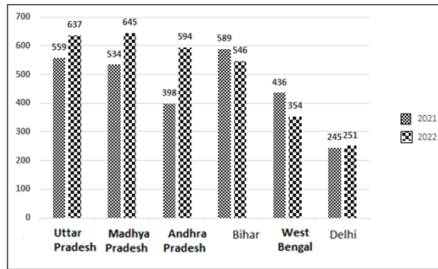Status : **Answered**
Chosen Option : **4**

Q.2 What is the natural resource from which petrol and diesel are obtained?

Ans ✔ 1. Petroleum

✘ 2. Coke

✘ 3. Bitumen

✘ 4. Coal tar

Question ID : 7518977877
Option 1 ID : 75189731505
Option 2 ID : 75189731506
Option 3 ID : 75189731507
Option 4 ID : 75189731508
Status : **Answered**
Chosen Option : **1**

Q.3 Study the given graph and answer the question that follows.

The graph presents the total production of crops (in metric tonnes) in six different states/UTs of the country in the years 2021 and 2022.

In which pair of states/UTs is the ratio of total crop production for both the years 1 : 2?

Ans   ✗ 1.   Delhi and Uttar Pradesh

      ✗ 2.   West Bengal and Andhra Pradesh

      ✔ 3.   Delhi and Andhra Pradesh

      ✗ 4.   West Bengal and Madhya Pradesh

Q.4 An object is placed at a distance of 40 cm from a convex lens having focal length 20 cm. Which option given below, correctly describes the nature and the relative size of the image formed in the respective order?

Ans   ✗ 1.   Virtual, erect and diminished

      ✔ 2.   Real, inverted and same sized

      ✗ 3.   Virtual, erect and enlarged

      ✗ 4.   Real, inverted and diminished

Q.5 AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and ∠PEB = 78°. G is a point between AB and CD such that ∠BEG = 18° and ∠GFE = 30°. What is the measure of ∠EGF?

Ans
  ✗ 1. 68°

  ✗ 2. 58°

  ✔ 3. 66°

  ✗ 4. 72°

Question ID : 7518978473
Option 1 ID : 75189733891
Option 2 ID : 75189733889
Option 3 ID : 75189733890
Option 4 ID : 75189733892
Status : **Answered**
Chosen Option : **3**

Q.6 For the equation $2x^2 + bx + 3 = 0$, the smaller root is 0.5. Find the value of b.

Ans
  ✗ 1. -2

  ✔ 2. -7

  ✗ 3. 5

  ✗ 4. 1

Question ID : 7518976163
Option 1 ID : 75189724651
Option 2 ID : 75189724650
Option 3 ID : 75189724649
Option 4 ID : 75189724652
Status : **Answered**
Chosen Option : **2**

Q.7 In a certain code language, '856 458 1265' means 'you are good', 568 235 1265 1452 means 'good boy bad habit ', and '25475 458 568' means 'evils are bad'. In that language, which code stands for 'are'?

Ans
  ✔ 1. 458

  ✗ 2. 235

  ✗ 3. 856

  ✗ 4. 1265

Question ID : 7518979011
Option 1 ID : 75189736042
Option 2 ID : 75189736043
Option 3 ID : 75189736041
Option 4 ID : 75189736044
Status : **Answered**
Chosen Option : **1**

Q.8 Refer to the following letter series and answer the question that follows.

A F R C D S Y H N T E D C I D Q A C V Y U I N G R F S C W R

How many such consonants are there each of which is immediately preceded by a vowel and also immediately followed by a vowel?

Ans ✔ 1. Zero

✗ 2. One

✗ 3. Two

✗ 4. Three

Question ID : **7518977975**
Option 1 ID : **75189731897**
Option 2 ID : **75189731898**
Option 3 ID : **75189731899**
Option 4 ID : **75189731900**
Status : **Answered**
Chosen Option : **1**

Q.9 A certain number of people are sitting in a row, facing north. B sits fourth to the right of E. C sits third to the right of B. A sits sixth to the left of E. There are only two persons between C and D. If no other person is sitting in the row, what is the total number of persons seated?

Ans ✗ 1. 12

✗ 2. 20

✔ 3. 17

✗ 4. 9

Question ID : **7518978199**
Option 1 ID : **75189732793**
Option 2 ID : **75189732796**
Option 3 ID : **75189732795**
Option 4 ID : **75189732794**
Status : **Answered**
Chosen Option : **3**

Q.10 A 2200 W electric toaster operates at 220 V. The resistance of its coil is:

Ans ✗ 1. 88 Ω

✗ 2. 11 Ω

✔ 3. 22 Ω

✗ 4. 44 Ω

Question ID : **7518976720**
Option 1 ID : **75189726880**
Option 2 ID : **75189726877**
Option 3 ID : **75189726878**
Option 4 ID : **75189726879**
Status : **Answered**
Chosen Option : **3**

Q.11 A boat takes 21 minutes to go 12.6 km upstream. The ratio of the speed of the boat in still water to that of the stream is 7 : 2. How much total time (in hours) will the boat take to go 43.2 km upstream and 38.88 km downstream?

Ans
- ✗ 1. 1.6
- ✗ 2. 2
- ✓ 3. 1.8
- ✗ 4. 2.4

Question ID : **7518978396**
Option 1 ID : **75189733581**
Option 2 ID : **75189733583**
Option 3 ID : **75189733582**
Option 4 ID : **75189733584**
Status : **Not Answered**
Chosen Option : **--**

Q.12 Who gave the laws of inheritance?

Ans
- ✗ 1. Watson and Crick
- ✗ 2. Carl Linnaeus
- ✓ 3. Gregor Mendel
- ✗ 4. Charles Darwin

Question ID : **7518977844**
Option 1 ID : **75189731375**
Option 2 ID : **75189731373**
Option 3 ID : **75189731376**
Option 4 ID : **75189731374**
Status : **Answered**
Chosen Option : **3**

Q.13 If ₹12,500 amounts to ₹15,680 in 2 years at x% compound interest per annum, compounded annually, then the value of x is:

Ans
- ✗ 1. 15
- ✗ 2. 20
- ✗ 3. 11
- ✓ 4. 12

Question ID : **7518976276**
Option 1 ID : **75189725103**
Option 2 ID : **75189725104**
Option 3 ID : **75189725101**
Option 4 ID : **75189725102**
Status : **Answered**
Chosen Option : **4**

Q.14 In March 2022, in which state did the World Health Organization sign an agreement with India to set up a Global Centre for Traditional Medicine?

Ans

✗ 1. Himachal Pradesh

✗ 2. Kerala

✔ 3. Gujarat

✗ 4. Rajashtan

Question ID : **7518973773**
Option 1 ID : **75189715091**
Option 2 ID : **75189715092**
Option 3 ID : **75189715090**
Option 4 ID : **75189715089**
Status : **Not Answered**
Chosen Option : **--**

Q.15 By selling an article for ₹19.50, a man makes a profit of 30%. By how much should the sales price be increased to make a profit of 40%?

Ans

✔ 1. ₹1.50
✗ 2. ₹2.00
✗ 3. ₹1.90
✗ 4. ₹4

Question ID : **7518975624**
Option 1 ID : **75189722495**
Option 2 ID : **75189722493**
Option 3 ID : **75189722494**
Option 4 ID : **75189722496**
Status : **Answered**
Chosen Option : **1**

Q.16 The HCF of the numbers 64, 86,108 and 260 is:

Ans

✗ 1. 6
✔ 2. 2
✗ 3. 4
✗ 4. 8

Question ID : **7518978646**
Option 1 ID : **75189734583**
Option 2 ID : **75189734581**
Option 3 ID : **75189734582**
Option 4 ID : **75189734584**
Status : **Answered**
Chosen Option : **2**

Q.17 Which of the following wastes CANNOT be degraded by bacteria or other saprophytes?

Ans ✗ 1. Leather

✗ 2. Paper

✗ 3. Excreta

✔ 4. Plastic

Question ID : **7518977865**
Option 1 ID : **75189731460**
Option 2 ID : **75189731458**
Option 3 ID : **75189731457**
Option 4 ID : **75189731459**
Status : **Answered**
Chosen Option : **4**

Q.18 If in a certain code language, CARBON is coded as DCUFTT and ENABLE is coded as FPDFQK, then how is CANDLE coded in that language?

Ans ✔ 1. DCQHQK

✗ 2. EDRIKQ

✗ 3. EDRIQK

✗ 4. DCHQKQ

Question ID : **7518979010**
Option 1 ID : **75189736040**
Option 2 ID : **75189736038**
Option 3 ID : **75189736037**
Option 4 ID : **75189736039**
Status : **Answered**
Chosen Option : **1**

Q.19 How many resistors of 12 Ω must be connected in parallel combination to obtain 4 Ω resistance?

Ans ✗ 1. 8 resistors

✗ 2. 2 resistors

✗ 3. 4 resistors

✔ 4. 3 resistors

Question ID : **7518978139**
Option 1 ID : **75189732555**
Option 2 ID : **75189732553**
Option 3 ID : **75189732554**
Option 4 ID : **75189732556**
Status : **Answered**
Chosen Option : **4**

Q.20 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.

PROFESS : ORPSSEF : : CONTAIN : NOCNIAT : : ROUTINE : ?

Ans
  ✗ 1. UROEINT

  ✗ 2. TORENIU

  ✗ 3. UORNETI

  ✓ 4. UORENIT

Q.21 How many prime numbers are there between 20 and 80?

Ans
  ✗ 1. 15

  ✗ 2. 13

  ✗ 3. 16

  ✓ 4. 14

Q.22 Which of the following reactions is NOT an example of a displacement reaction?

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

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

  ✓ 3. $2AgBr(s) \xrightarrow{\text{Sunlight}} 2Ag(s) + Br_2(g)$

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

Q.23 What is the main role of the Reserve Bank of India?

Ans ✗ 1. It maintains the profit generated by the banking sector.

✗ 2. It provides fund to the private sector industries.

✓ 3.

It conducts consolidated supervision of the financial sector in India.

✗ 4. It lends money to all people.

Question ID : **7518978889**
Option 1 ID : **75189735556**
Option 2 ID : **75189735555**
Option 3 ID : **75189735554**
Option 4 ID : **75189735553**
Status : **Answered**
Chosen Option : **3**

Q.24 The volume of a cube whose side is 12 cm is:

Ans ✗ 1. 1828 cm^3

✗ 2. 1928 cm^3

✓ 3. 1728 cm^3

✗ 4. 1628 cm^3

Question ID : **7518978793**
Option 1 ID : **75189735170**
Option 2 ID : **75189735169**
Option 3 ID : **75189735171**
Option 4 ID : **75189735172**
Status : **Answered**
Chosen Option : **3**

Q.25 The sayings or day-to-day teachings of Prophet Muhammad after his death were compiled by his followers and called _____.

Ans ✓ 1. Hadith

✗ 2. Sunnah

✗ 3. Quran

✗ 4. Sharia

Question ID : **7518978865**
Option 1 ID : **75189735458**
Option 2 ID : **75189735459**
Option 3 ID : **75189735457**
Option 4 ID : **75189735460**
Status : **Answered**
Chosen Option : **3**

Q.26 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.

13 : 28 :: 15 : 30 :: 20 : ?

Ans
✔ 1. 35
✘ 2. 36
✘ 3. 40
✘ 4. 42

Question ID : **7518978309**
Option 1 ID : **75189733236**
Option 2 ID : **75189733235**
Option 3 ID : **75189733234**
Option 4 ID : **75189733233**
Status : **Not Answered**
Chosen Option : **--**

Q.27 A shopkeeper professes to sell his goods at a 10% loss but uses a false balance and gains 15%. The actual weight (correct to one decimal place) he uses for 1 kg is:

Ans
✔ 1. 782.6 gm
✘ 2. 784.4 gm
✘ 3. 788.4 gm
✘ 4. 785.6 gm

Question ID : **7518978382**
Option 1 ID : **75189733525**
Option 2 ID : **75189733526**
Option 3 ID : **75189733528**
Option 4 ID : **75189733527**
Status : **Not Answered**
Chosen Option : **--**

Q.28 Five times a number is 65. Find the number.

Ans
✘ 1. 10
✘ 2. 11
✘ 3. 15
✔ 4. 13

Question ID : **7518976144**
Option 1 ID : **75189724573**
Option 2 ID : **75189724574**
Option 3 ID : **75189724576**
Option 4 ID : **75189724575**
Status : **Answered**
Chosen Option : **4**

Q.29 In the reaction $MnO_2 + 4HCl \rightarrow MnCl_2 + 2H_2O + Cl_2$:

Ans
- ✓ 1. MnO_2 is reduced to $MnCl_2$
- ✗ 2. MnO_2 is oxidized to $MnCl_2$
- ✗ 3. $MnCl_2$ is reduced to MnO_2
- ✗ 4. Mn does not undergo redox reaction

Question ID : **7518973615**
Option 1 ID : **75189714458**
Option 2 ID : **75189714457**
Option 3 ID : **75189714459**
Option 4 ID : **75189714460**
Status : **Answered**
Chosen Option : **1**

Q.30 The Resistance of a conductor is:

Ans
- ✓ 1. The ratio of V and I
- ✗ 2. The Difference of V and I
- ✗ 3. The ratio of I and V
- ✗ 4. The product of I and V

Question ID : **7518978127**
Option 1 ID : **75189732507**
Option 2 ID : **75189732508**
Option 3 ID : **75189732505**
Option 4 ID : **75189732506**
Status : **Answered**
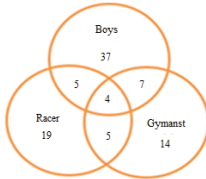Chosen Option : **1**

Q.31 If a = 5, then $\sqrt{(4a^2 - 4a + 1)} + 6a$ is:

Ans
- ✗ 1. 69
- ✗ 2. 49
- ✓ 3. 39
- ✗ 4. 59

Question ID : **7518978623**
Option 1 ID : **75189734489**
Option 2 ID : **75189734491**
Option 3 ID : **75189734492**
Option 4 ID : **75189734490**
Status : **Answered**
Chosen Option : **3**

Q.32 Study the given diagram carefully and answer the questions. The numbers in different sections indicate the number of persons.
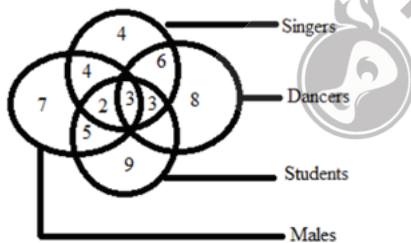
In the following Venn diagram, the how many boys are there who are racers and gymnasts?

Ans

✗ 1. 7

✗ 2. 14

✗ 3. 5

✔ 4. 4

Q.33 Study the Venn Diagram given below and answer the question that follows.

How many male students are neither singers nor dancers?

Ans

✗ 1. 3

✗ 2. 4

✔ 3. 5

✗ 4. 2

Q.34 The part of the northern plains of India comprising older alluvium is known as:

Ans
❌ 1. Khadar

❌ 2. Bhabar

❌ 3. Terai

✅ 4. Bhangar

Question ID : **7518974273**
Option 1 ID : **75189717090**
Option 2 ID : **75189717089**
Option 3 ID : **75189717092**
Option 4 ID : **75189717091**
Status : **Answered**
Chosen Option : **4**

Q.35 A certain number of people are sitting in a row and all are facing north. Exactly one person is sitting between G and K. I is sitting third to the right of J. H is sitting to the immediate right of G. Exactly four persons are sitting between I and K. M is sitting at the second position to the left of K. If it is given that there is no other person sitting in the row, what is the total number of people in the row?

Ans
✅ 1. 12

❌ 2. 13

❌ 3. 10

❌ 4. 11

Question ID : **7518977906**
Option 1 ID : **75189731621**
Option 2 ID : **75189731624**
Option 3 ID : **75189731622**
Option 4 ID : **75189731623**
Status : **Not Answered**
Chosen Option : **--**

Q.36 A solid metallic cuboid of sides 4 cm × 10 cm × 15 cm is melted and made into small identical dices of 2 cm × 2 cm × 2cm. How many such dices can be made?

Ans
❌ 1. 36

❌ 2. 40

✅ 3. 75

❌ 4. 43

Question ID : **7518976191**
Option 1 ID : **75189724763**
Option 2 ID : **75189724764**
Option 3 ID : **75189724762**
Option 4 ID : **75189724761**
Status : **Answered**
Chosen Option : **3**

Q.37 Two coils, A and B, such that A is connected to a battery through a key and a rheostat, and B is connected to a galvanometer, are arranged parallel and close to each other. In which of the following durations, as described, is/are current(s) induced in B?

(a) 0 to 50 s : the current in A is steady

(b) 50 to 60 s : the current in A is decreased at a constant rate

Ans ✔ 1. Only (b)

✘ 2. Both (a) and (b)

✘ 3. Only (a)

✘ 4. Neither (a) nor (b)

Question ID : **7518976757**
Option 1 ID : **75189727026**
Option 2 ID : **75189727028**
Option 3 ID : **75189727025**
Option 4 ID : **75189727027**
Status : **Not Answered**
Chosen Option : **--**

Q.38 The annual income of Ram is ₹5,62,400. He spent 20% of this income on house rent, 15% of the income on food, and 30% of the income still remaining with him on children's education. If the amount still remaining was his savings, which of the following amounts is closest to his actual savings?

Ans ✔ 1. ₹2,67,703

✘ 2. ₹2,67,730

✘ 3. ₹2,76,703

✘ 4. ₹2,67,037

Question ID : **7518975833**
Option 1 ID : **75189723332**
Option 2 ID : **75189723329**
Option 3 ID : **75189723330**
Option 4 ID : **75189723331**
Status : **Not Answered**
Chosen Option : **--**

Q.39 Which one of the following districts in Western India recorded a temperature of 1.1 degrees Celcius on December 18, 2021?

Ans ✔ 1. Churu

✘ 2. Banswara

✘ 3. Morbi

✘ 4. Patan

Question ID : **7518974071**
Option 1 ID : **75189716281**
Option 2 ID : **75189716282**
Option 3 ID : **75189716283**
Option 4 ID : **75189716284**
Status : **Not Answered**
Chosen Option : **--**

Q.40 The mean of the first 7 odd prime numbers is:

Ans ✔ 1. 10.71

✘ 2. 8.61

✘ 3. 7.91

✘ 4. 5.41

Question ID : **7518975664**
Option 1 ID : **75189722656**
Option 2 ID : **75189722653**
Option 3 ID : **75189722654**
Option 4 ID : **75189722655**
Status : **Answered**
Chosen Option : **3**

Q.41 If 2 is added to each odd digit and 2 is subtracted from each even digit in the number 485136785, what will be the difference between the digits which are second from the left and third from the right?

Ans ✘ 1. 1

✘ 2. 4

✘ 3. 2

✔ 4. 3

Question ID : **7518977753**
Option 1 ID : **75189731009**
Option 2 ID : **75189731012**
Option 3 ID : **75189731010**
Option 4 ID : **75189731011**
Status : **Answered**
Chosen Option : **4**

Q.42 When baking soda is heated it converts into _____, water, and carbon dioxide.

Ans ✘ 1. sodium hydroxide

✘ 2. sodium acetate

✘ 3. sodium chloride

✔ 4. sodium carbonate

Question ID : **7518973479**
Option 1 ID : **75189713915**
Option 2 ID : **75189713914**
Option 3 ID : **75189713913**
Option 4 ID : **75189713916**
Status : **Answered**
Chosen Option : **4**

Q.43 Refer to the following letter and symbol series and answer the question.

(Left) E # R & H & @ J & M N # B & V && D # P @ W % & Q & A % & # E & (Right)

If all the symbols are dropped from the series, which of the following will be third from the left?

Ans
✗ 1. M

✗ 2. Q

✔ 3. H

✗ 4. J

Q.44 If the mean of the following data is 22, then what is the value of x ?

Class	0-10	10-20	20-30	30-40	40-50
Frequency	12	16	6	7	x

Ans
✔ 1. 9

✗ 2. 6

✗ 3. 13

✗ 4. 19

Q.45 Refer to the following letter, number, symbol series and answer the question.

(Left) N 3 F P # 1 C B 5 $ L Q 6 & N 8 D @ K 9 R (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans
✗ 1. 2

✗ 2. 4

✔ 3. 1

✗ 4. 3

Q.46 The 74th Constitutional Amendment Act provides for _____ for a transitional area between a rural and urban area.

Ans
- ✗ 1. Gram Panchayat
- ✓ 2. Nagar Panchayat
- ✗ 3. Municipal Corporation
- ✗ 4. Municipal Council

Question ID : **7518978943**
Option 1 ID : **75189735772**
Option 2 ID : **75189735769**
Option 3 ID : **75189735770**
Option 4 ID : **75189735771**
Status : **Not Answered**
Chosen Option : **--**

Q.47 In July 2022, the Supreme Court of India gave an order giving more power to the right to be forgotten, which has been acknowledged as a facet of the right to privacy by the top court in its 2017 landmark judgment, the new order is related to _____.

Ans
- ✗ 1. print media
- ✓ 2. search engines and internet
- ✗ 3. medical history
- ✗ 4. phone calls

Question ID : **7518976776**
Option 1 ID : **75189727101**
Option 2 ID : **75189727102**
Option 3 ID : **75189727104**
Option 4 ID : **75189727103**
Status : **Answered**
Chosen Option : **4**

Q.48 Red and Yellow soils can easily be found in parts of _____ and _____.

Ans
- ✗ 1. Manipur and Sikkim
- ✗ 2. Rajasthan and Gujarat
- ✗ 3. Jammu and Kashmir and Ladakh
- ✓ 4. Odisha and Chhattisgarh

Question ID : **7518978897**
Option 1 ID : **75189735587**
Option 2 ID : **75189735585**
Option 3 ID : **75189735588**
Option 4 ID : **75189735586**
Status : **Answered**
Chosen Option : **2**

Q.49 The centre of curvature of a convex mirror is located at +18 cm, as per New Cartesian Sign convention. Its focus is at

Ans
- ✗ 1. −9 cm
- ✗ 2. −18 cm
- ✗ 3. 18 cm
- ✔ 4. 9 cm

Question ID : **7518976582**
Option 1 ID : **75189726326**
Option 2 ID : **75189726328**
Option 3 ID : **75189726327**
Option 4 ID : **75189726325**
Status : **Answered**
Chosen Option : **4**

Q.50 There are 88 mobile phones, each of separate brands, arranged in a straight row at a mobile centre. The K brand mobile is 47th from the left side of the row and the M brand mobile is 34th from the right side of the row. How many mobile phones are between K and M brands?

Ans
- ✗ 1. 8
- ✔ 2. 7
- ✗ 3. 9
- ✗ 4. 10

Question ID : **7518978957**
Option 1 ID : **75189735827**
Option 2 ID : **75189735828**
Option 3 ID : **75189735826**
Option 4 ID : **75189735825**
Status : **Answered**
Chosen Option : **2**

Q.51 The Women's Day week to raise awareness on 'Safety and Security of Women' was celebrated from _____ in 2022.

Ans
- ✗ 1. 7th to 14th March
- ✗ 2. 10th to 17th March
- ✗ 3. 4th to 11th March
- ✔ 4. 1st to 8th March

Question ID : **7518977458**
Option 1 ID : **75189729831**
Option 2 ID : **75189729832**
Option 3 ID : **75189729830**
Option 4 ID : **75189729829**
Status : **Answered**
Chosen Option : **1**

Q.52 The value of $\sqrt{74529}$ is:

Ans ✗ 1. 239

✗ 2. 259

✗ 3. 243

✔ 4. 273

Q.53 Let $0° < \theta < 90°$. $\sqrt{\dfrac{sec^2\,\theta + cosec^2\,\theta}{tan^2\,\theta - sin^2\,\theta}} \times \dfrac{(1 + tan^2\,\theta)\,sin^2\,\theta}{(cosec\theta - cot\theta)(1 + cos\theta)}$ is equal to:

Ans ✗ 1. $cot^2\,\theta$

✗ 2. $sin^2\,\theta\,cos^2\,\theta$

✔ 3. $cosec^2\theta\,sec^2\,\theta$

✗ 4. $sec^2\,\theta$

Q.54 Under the 'Talent Search and Development' component of 'Khelo India' programme to carry out talent identification, the country has been divided into how many zones as of July 2022?

Ans ✗ 1. Three

✗ 2. Four

✔ 3. Five

✗ 4. Seven

Q.55 Given below is a statement followed by two possible conclusions I and II. Read the information carefully and select the correct option.

Statement:

Country B has been importing 80% of its crude oil and petroleum from country Y for a few decades now to fulfil their fuel needs. However, owing to the current financial crisis in country Y, it exports the crude oil and petroleum to other countries at 30% higher prices now.

Which of the following can be concluded from the given information?
I. The car resale industry in country B will be on verge of a total shut down in the coming months.

II. Country B will increase fuel tax by 30%.

Ans ✔ 1.

Neither I nor II can be concluded from the given information.

✘ 2. Only I can be concluded from the given information.

✘ 3. Both I and II can be concluded from the given information.

✘ 4. Only II can be concluded from the given information.

Q.56 A quadratic equation whose roots are $-\frac{2}{3}$ and $-\frac{3}{2}$ is:

Ans ✘ 1. $6x^2 - 13x - 1 = 0$

✔ 2. $6x^2 + 13x + 6 = 0$

✘ 3. $6x^2 - 13x + 6 = 0$

✘ 4. $6x^2 + 13x + 1 = 0$

Q.57 Which two signs should be interchanged to make the following equation correct?

$13 + 6 \div 12 - 4 \times 5 = 4$

Ans ✔ 1. $\div$ and $-$

✘ 2. $\times$ and $+$

✘ 3. $\div$ and $\times$

✘ 4. $-$ and $\times$

Q.58 Which of the following is a classical language among the 22 languages in the 8th Schedule of the Indian Constitution?

Ans ✔ 1. Sanskrit

✘ 2. Konkani

✘ 3. Bengali

✘ 4. Santhali

Question ID : **7518974006**
Option 1 ID : **75189716022**
Option 2 ID : **75189716021**
Option 3 ID : **75189716024**
Option 4 ID : **75189716023**
Status : **Answered**
Chosen Option : **1**

Q.59 Which of the following is NOT a metal?

Ans ✘ 1. Pb

✘ 2. Sc

✘ 3. Ga

✔ 4. Si

Question ID : **7518973494**
Option 1 ID : **75189713976**
Option 2 ID : **75189713974**
Option 3 ID : **75189713973**
Option 4 ID : **75189713975**
Status : **Answered**
Chosen Option : **4**

Q.60 An element X combines with chlorine to form a compound XCl. The element X is placed on the left side of the periodic table. Which of the following statements are correct for element X?

(i)   Has one valence electron.

(ii)   Is a metal and is solid.

(iii)   Is a non-metal and is a gas.

(iv)   Has five valence electrons.

Ans ✘ 1. Only (i) and (iii)

✔ 2. Only (I), (ii) and (iii)

✘ 3. Only (iv)

✘ 4. Only (iii)

Question ID : **7518973733**
Option 1 ID : **75189714931**
Option 2 ID : **75189714932**
Option 3 ID : **75189714930**
Option 4 ID : **75189714929**
Status : **Answered**
Chosen Option : **1**

Q.61 Six classmates L, M, N, O, P and Q compare the IGCSE results of their final exam. Each of them scored different marks. O scored more than N but less than L. M scored more than N. P scored less than N but more than Q. L scored less than M. Who among the six scored the most?

Ans

✖ 1. N

✔ 2. M

✖ 3. O

✖ 4. L

Question ID : 7518977641
Option 1 ID : 75189730564
Option 2 ID : 75189730561
Option 3 ID : 75189730563
Option 4 ID : 75189730562
Status : **Answered**
Chosen Option : **2**

Q.62 Select the number from among the given options that can replace the question mark (?) in the following series.

188, 187, 183, 174, 158, ?

Ans

✖ 1. 129

✖ 2. 137

✔ 3. 133

✖ 4. 139

Question ID : 7518979032
Option 1 ID : 75189736128
Option 2 ID : 75189736126
Option 3 ID : 75189736127
Option 4 ID : 75189736125
Status : **Answered**
Chosen Option : **3**

Q.63 On which national festival is the National Flag of India hoisted by the Prime Minister at the Red Fort in old Delhi?

Ans

✖ 1. National Constitution Day

✔ 2. Independence Day

✖ 3. Gandhi Jayanti

✖ 4. Republic Day

Question ID : 7518978850
Option 1 ID : 75189735397
Option 2 ID : 75189735400
Option 3 ID : 75189735398
Option 4 ID : 75189735399
Status : **Answered**
Chosen Option : **4**

Q.64 Pipe P can fill $\frac{3}{4}$ part of a tank in 18 hours and pipe Q can fill $\frac{3}{5}$ part of the same tank in 12 hours. Both P and Q were kept open for 4 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in $5\frac{1}{2}$ hours. Pipes P, Q and R together can fill the empty tank in:

Ans ✗ 1. 30 hours

✗ 2. 36 hours

✗ 3. 35 hours

✔ 4. 40 hours

Question ID : 7518978404
Option 1 ID : 75189733613
Option 2 ID : 75189733615
Option 3 ID : 75189733614
Option 4 ID : 75189733616
Status : Not Answered
Chosen Option : --

Q.65 Sharad walks 4 km towards the west and then turns right and walks 5 km. Again, he turns left and walks 7 km. Finally, he turns to his left and walks 5 km. How far is he from the starting point?
(All turns are 90 degree turns only)

Ans ✔ 1. 11 km

✗ 2. 10 km

✗ 3. 21 km

✗ 4. 14 km

Question ID : 7518979020
Option 1 ID : 75189736078
Option 2 ID : 75189736077
Option 3 ID : 75189736080
Option 4 ID : 75189736079
Status : Answered
Chosen Option : 1

Q.66 How many teams were scheduled to be a part of the 15th edition of the Indian Premier League (Cricket), 2022?

Ans ✗ 1. 12

✔ 2. 10

✗ 3. 15

✗ 4. 17

Question ID : 7518977437
Option 1 ID : 75189729746
Option 2 ID : 75189729745
Option 3 ID : 75189729747
Option 4 ID : 75189729748
Status : Answered
Chosen Option : 2

Q.67 Which of following molecules govern the inheritance of a trait by the offspring?

Ans ✗ 1. Only maternal DNA

✓ 2. Paternal and maternal DNA

✗ 3. Proteins

✗ 4. Only paternal DNA

Question ID : **7518977846**
Option 1 ID : **75189731384**
Option 2 ID : **75189731382**
Option 3 ID : **75189731383**
Option 4 ID : **75189731381**
Status : **Answered**
Chosen Option : **2**

Q.68 In a quadrilateral ABCD, ∠A = 86° and ∠B = 72°. The bisectors of ∠C and ∠D meet at O. What is the measure of ∠DOC?

Ans ✗ 1. 91°

✗ 2. 69°

✗ 3. 101°

✓ 4. 79°

Question ID : **7518978477**
Option 1 ID : **75189733907**
Option 2 ID : **75189733905**
Option 3 ID : **75189733908**
Option 4 ID : **75189733906**
Status : **Answered**
Chosen Option : **4**

Q.69 If each of the digits in the number 417593286 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. 3

✓ 2. 1

✗ 3. 2

✗ 4. 4

Question ID : **7518977749**
Option 1 ID : **75189730995**
Option 2 ID : **75189730993**
Option 3 ID : **75189730994**
Option 4 ID : **75189730996**
Status : **Answered**
Chosen Option : **2**

Q.70 If 3.2 : x :: x : 16.2, and x > 0, then find the value of x.

Ans
- ✗ 1. 9.7
- ✗ 2. 5.4
- ✗ 3. 6.3
- ✔ 4. 7.2

Q.71 Select the term from among the given options that can replace the question mark (?) in the following alpha-numeric series to make it logically complete.

3Z6, 8Y12, 15X18, 24W24, 35V30, ?

Ans
- ✗ 1. 36U48
- ✗ 2. 48V36
- ✗ 3. 36V48
- ✔ 4. 48U36

Q.72 Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow(s) from the given statement.

Statements:

Some woods are charcoals

Some petrol is diesel

All diesel are fossils

Conclusions:

(I) Some petrol are charcoals

(II) Some fossils are petrol

(III) Some woods are diesel

Ans
- ✗ 1. Only conclusion I follows
- ✗ 2. None of the conclusions follow
- ✔ 3. Only conclusion II follows
- ✗ 4. Only conclusion I and III follows

Q.73 Amongst six friends P, Q, R, S, T and U, each has a different height. R is taller than only three other friends. T is taller than only one friend. Q is taller than T but shorter than U. U is shorter than P. Who is the second tallest among all the friends?

Ans
- ✔ 1. U
- ✘ 2. P
- ✘ 3. Q
- ✘ 4. R

Question ID : **7518979121**
Option 1 ID : **75189736483**
Option 2 ID : **75189736484**
Option 3 ID : **75189736482**
Option 4 ID : **75189736481**
Status : **Answered**
Chosen Option : **2**

Q.74 Which of the following features of the Constitution of India is borrowed from the Constitution of Ireland?

Ans
- ✘ 1. Single citizenship
- ✘ 2. Rule of law
- ✘ 3. Parliamentary system of government
- ✔ 4. Directive principles of state policy

Question ID : **7518978586**
Option 1 ID : **75189734344**
Option 2 ID : **75189734342**
Option 3 ID : **75189734343**
Option 4 ID : **75189734341**
Status : **Answered**
Chosen Option : **4**

Q.75 How many such pairs of letters are there in the word LOVABLE (in both forward and backward directions) which have as many letters between them in the word as there are in the English alphabetical order?

Ans
- ✔ 1. 1
- ✘ 2. 5
- ✘ 3. 3
- ✘ 4. 6

Question ID : **7518977961**
Option 1 ID : **75189731841**
Option 2 ID : **75189731843**
Option 3 ID : **75189731842**
Option 4 ID : **75189731844**
Status : **Answered**
Chosen Option : **3**

Q.76 Match the following:

Compound	Name
i. C_6H_6	a. Ethane
ii. $H_2C=CH_2$	b. Benzene
iii. CH_3-CHO	c. Acetaldehyde
iv. CH_3COCH_3	d. Ethylene
v. CH_3CH_3	e. Acetone

Ans

✗ 1. i-d, ii-c, iii-a, iv-b. v-e

✔ 2. i-b, ii-d, iii-c, iv-e, v-a

✗ 3. i-d, ii-c, iii-e, iv-b v-a

✗ 4. i-a, ii-b, iii-c, iv-e v-d

Q.77 Study the following line graph and answer the question.

Exports from 3 companies over the years (in ₹ crore)

	2011	2012	2013	2014	2015	2016	2017
Company A	21.2	23.2	24.6	28.7	31.8	30.4	48.6
Company B	22.6	32.1	30.6	34.5	32.4	38.6	45.3
Company C	21.9	29.4	37.8	33.2	34.2	47.3	42.4

The average annual exports during the given period for Company B is what percentage of the average annual exports for Company C?

Ans ✗ 1. 96.65%

✗ 2. 93.99%

✗ 3. 97.32%

✔ 4. 95.90%

Q.78 Which instrument aids in the detection of the heartbeat?

Ans ✗ 1. Spirometer

✗ 2. Thermometer

✔ 3. Stethoscope

✗ 4. Sphygmomanometer

Q.79 If $\frac{(15x-9)}{x} + \frac{(15y-9)}{y} + \frac{(15z-9)}{z} = 0$, then the value of $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ is:

Ans ✗ 1. 4

✗ 2. 7

✗ 3. 6

✔ 4. 5

Q.80 Which of the following is an indigenously developed automatic train protection system tested in India in March 2022?

Ans ✗ 1. SANRAKSHAN

✔ 2. KAVACH

✗ 3. BACHAAV

✗ 4. RAKSHAA

Question ID : **7518978502**
Option 1 ID : **75189734005**
Option 2 ID : **75189734007**
Option 3 ID : **75189734008**
Option 4 ID : **75189734006**
Status : **Answered**
Chosen Option : **2**

Q.81 _____, the then largest NBFC – MFI got merged with IndusInd bank in July 2019.

Ans ✗ 1. Annapurna Finance Private Limited

✗ 2. CreditAccess Grameen Limited

✔ 3. Bharat Financial Inclusion Limited

✗ 4. Bandhan Financial Services Limited

Question ID : **7518976829**
Option 1 ID : **75189727315**
Option 2 ID : **75189727316**
Option 3 ID : **75189727313**
Option 4 ID : **75189727314**
Status : **Not Answered**
Chosen Option : **--**

Q.82 In which of the following situations will there be no potential difference induced in the coil?

(a) A bar magnet moving towards a stationary coil

(b) A coil moving towards a stationary bar magnet

(c) A coil and a bar magnet moving in the same direction with the same speed

(d) A coil and a bar magnet moving towards each other with the same speed

Ans ✔ 1. (c)

✗ 2. (d)

✗ 3. (a)

✗ 4. (b)

Question ID : **7518976751**
Option 1 ID : **75189727003**
Option 2 ID : **75189727004**
Option 3 ID : **75189727001**
Option 4 ID : **75189727002**
Status : **Answered**
Chosen Option : **4**

Q.83 Catenation property is shown by:

Ans ✗ 1. Helium

✔ 2. carbon

✗ 3. Nitrogen

✗ 4. Oxygen

Question ID : **7518978108**
Option 1 ID : **75189732432**
Option 2 ID : **75189732429**
Option 3 ID : **75189732431**
Option 4 ID : **75189732430**
Status : **Answered**
Chosen Option : **2**

Q.84 In the process of storing and transferring ADP into ATP molecules, which of the following minerals is critical?

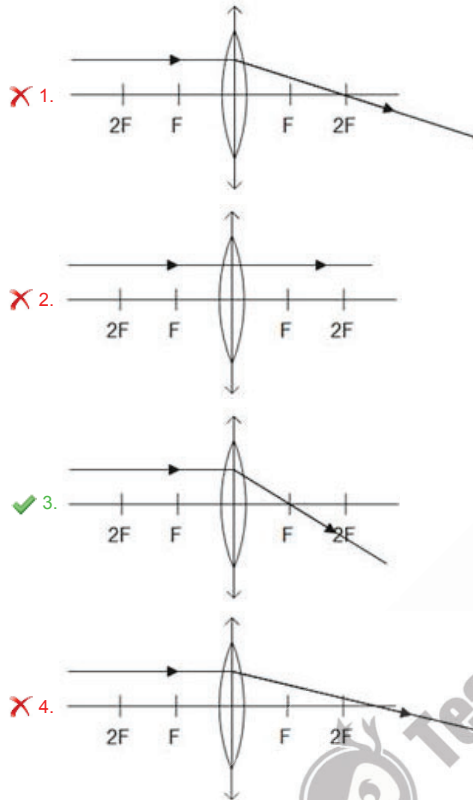**Ans** ✔ 1. Phosphorus

✗ 2. Calcium

✗ 3. Iron

✗ 4. Sodium

Question ID : **7518974330**
Option 1 ID : **75189717317**
Option 2 ID : **75189717318**
Option 3 ID : **75189717319**
Option 4 ID : **75189717320**
Status : **Answered**
Chosen Option : **1**

Q.85 Which of the following diagrams correctly represents the path of a light ray incident parallel to the principal axis after refraction through the lens?

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.86 A, B, C, D, W, X, Y and Z are sitting around a square table facing the centre of the table. Some of them are sitting at the corners, while some are sitting at the middle of the sides. C sits third to the left of W. C sits at one of the corners. A does not sit at any of the corners. Y sits second to the right of A. A is not an immediate neighbour of C. Only three people sit between B and D. B is an immediate neighbour of Z. B does not sit at any of the middle of the sides.
Who sits second to the left of Y?

Ans

✗ 1. B

✗ 2. C

✗ 3. D

✔ 4. A

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Q.87 Suman's present age is twice that of Venkat's. Venkat's age, after 12 years, will be 21 years. Find Suman's present age.

Ans ✗ 1. 16 years

✓ 2. 18 years

✗ 3. 22 years

✗ 4. 20 years

Question ID : **7518975934**
Option 1 ID : **75189723736**
Option 2 ID : **75189723733**
Option 3 ID : **75189723735**
Option 4 ID : **75189723734**
Status : **Answered**
Chosen Option : **2**

Q.88 _____ is a type of crescent-shaped sand dune formed in desert regions where the wind direction is very constant.

Ans ✓ 1. Barchan

✗ 2. Bluff

✗ 3. Bergschrund

✗ 4. Blowhole

Question ID : **7518977248**
Option 1 ID : **75189728990**
Option 2 ID : **75189728992**
Option 3 ID : **75189728991**
Option 4 ID : **75189728989**
Status : **Not Answered**
Chosen Option : **--**

Q.89 A large tanker can be filled by pipes A and B in 60 minutes and 30 minutes, respectively. How much time will it take to fill the empty tanker, if for half the time pipe B is opened and for the remaining time pipes A and B are opened?

Ans ✓ 1. 24 minutes

✗ 2. 15 minutes

✗ 3. 28 minutes

✗ 4. 20 minutes

Question ID : **7518976105**
Option 1 ID : **75189724419**
Option 2 ID : **75189724417**
Option 3 ID : **75189724420**
Option 4 ID : **75189724418**
Status : **Answered**
Chosen Option : **1**

Q.90 Bone is an example of which of the following types of tissues?

Ans ✔ 1. Connective tissue

✘ 2. Muscular tissue

✘ 3. Epithelial tissue

✘ 4. Nervous tissue

Question ID : **7518977813**
Option 1 ID : **75189731250**
Option 2 ID : **75189731249**
Option 3 ID : **75189731251**
Option 4 ID : **75189731252**
Status : **Answered**
Chosen Option : **1**

Q.91 Name the process by which soluble products of photosynthesis are transported to other parts of the plant.

Ans ✘ 1. Diffusion

✔ 2. Translocation

✘ 3. Osmosis

✘ 4. Transpiration

Question ID : **7518977801**
Option 1 ID : **75189731202**
Option 2 ID : **75189731203**
Option 3 ID : **75189731204**
Option 4 ID : **75189731201**
Status : **Answered**
Chosen Option : **2**

Q.92 Pinky walked 160 m towards north, then she turned right and walks 240 m. Then she turned right and walked 280 m, then she turned left and walked 120 m. Finally, she turned left and walked 120 m. In which direction and how many metres is she from the starting position?
(All turns are 90 degree turns only)

Ans ✘ 1. West, 120 m

✘ 2. West, 360 m

✘ 3. East, 120 m

✔ 4. East, 360 m

Question ID : **7518979023**
Option 1 ID : **75189736090**
Option 2 ID : **75189736091**
Option 3 ID : **75189736089**
Option 4 ID : **75189736092**
Status : **Answered**
Chosen Option : **4**

Q.93 The sum of the present ages of a father and his son is 6 years more than 3 times the present age of the son. After 2 years, 2 times the father's age will be 7 years less than 5 times the son's age. The difference (in years) between the ages of the father and the son is:

Ans
✖ 1. 17
✔ 2. 19
✖ 3. 20
✖ 4. 23

Question ID : **7518978442**
Option 1 ID : **75189733765**
Option 2 ID : **75189733766**
Option 3 ID : **75189733767**
Option 4 ID : **75189733768**
Status : **Not Answered**
Chosen Option : **--**

Q.94 Select the number from among the given options that can replace the question mark (?) in the following series.

10, 132, 234, 318, ?, 440.

Ans
✔ 1. 386
✖ 2. 373
✖ 3. 369
✖ 4. 332

Question ID : **7518979042**
Option 1 ID : **75189736168**
Option 2 ID : **75189736167**
Option 3 ID : **75189736166**
Option 4 ID : **75189736165**
Status : **Answered**
Chosen Option : **1**

Q.95 A ray of light is incident on a concave mirror at point M. The ray makes an angle of 10° with a line joining M to the centre of curvature. The ray is reflected at an angle of _____.

Ans
✖ 1. 20°
✔ 2. 10°
✖ 3. 30°
✖ 4. 40°

Question ID : **7518976566**
Option 1 ID : **75189726262**
Option 2 ID : **75189726261**
Option 3 ID : **75189726263**
Option 4 ID : **75189726264**
Status : **Answered**
Chosen Option : **2**

Q.96 Which of the following is NOT an alkali?

Ans   ✗ 1. $Ba(OH)_2$

     ✗ 2. NH_4OH

     ✔ 3. $Cu(OH)_2$

     ✗ 4. $LiOH$

Question ID : **7518973459**
Option 1 ID : **75189713834**
Option 2 ID : **75189713833**
Option 3 ID : **75189713835**
Option 4 ID : **75189713836**
Status : **Answered**
Chosen Option : **2**

Q.97 Six friends, A, B, C, D, E and F, are sitting in a circle facing the centre of the circle. A is 2nd to the right of E. Only one person sits between F and D. B and D are immediate neighbours. F is 3rd to the right of B. C is second to the right of D. Who sits between D and F?

Ans   ✔ 1.   A

     ✗ 2.   C

     ✗ 3.   D

     ✗ 4.   B

Question ID : **7518978948**
Option 1 ID : **75189735789**
Option 2 ID : **75189735791**
Option 3 ID : **75189735792**
Option 4 ID : **75189735790**
Status : **Answered**
Chosen Option : **1**

Q.98 Which of the following statements about the Rajya Sabha is correct?

Ans   ✗ 1.   One-third of the members retire every year.

     ✔ 2.   One-third of the members retire every second year.

     ✗ 3.   Half of the members retire every year.

     ✗ 4.   One-fifth of the members retire every second year.

Question ID : **7518978603**
Option 1 ID : **75189734409**
Option 2 ID : **75189734410**
Option 3 ID : **75189734412**
Option 4 ID : **75189734411**
Status : **Answered**
Chosen Option : **2**

Q.99 Who was the Viceroy of British India when the Rowlatt Act was passed?

Ans   ✗ 1. Lord Canning

     ✗ 2. Lord Reading

     ✔ 3. Lord Chelmsford

     ✗ 4. Lord Curzon

Question ID : **7518977459**
Option 1 ID : **75189729836**
Option 2 ID : **75189729835**
Option 3 ID : **75189729833**
Option 4 ID : **75189729834**
Status : **Answered**
Chosen Option : **3**

Q.100 In India, Petrol price was liberalized and deregulated in June:

Ans   ✗ 1. 2014

     ✗ 2. 2017

     ✔ 3. 2010

     ✗ 4. 2008