RRB GROUP - D SHIFT – 3 (29-08-2022)

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Test Date	29/08/2022
Test Time	5:00 PM - 6:30 PM
Subject	Level 1

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

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

Section : **Level 1**

Q.1 The colour of scattered light depends on the size of the scattering particles. Very fine particles scatter mainly the _____ light.

Ans ✔ 1. blue

✘ 2. green

✘ 3. yellow

✘ 4. red

Question ID : **7518976653**
Option 1 ID : **75189726610**
Option 2 ID : **75189726609**
Option 3 ID : **75189726612**
Option 4 ID : **75189726611**
Status : **Answered**
Chosen Option : **1**

Q.2 If one angle of a triangle is equal to the sum of the other two angles, then the triangle is:

Ans ✘ 1. an isosceles triangle

✘ 2. an equilateral triangle

✔ 3. a right-angle triangle

✘ 4. an obtuse angle triangle

Question ID : **7518976197**
Option 1 ID : **75189724786**
Option 2 ID : **75189724787**
Option 3 ID : **75189724785**
Option 4 ID : **75189724788**
Status : **Answered**
Chosen Option : **3**

Q.3 Consider the below statements and identify the correct answer.

Statement I: Metals are electropositive in nature.

Statement II: Metals tend to lose electrons while forming bonds.

Ans ✗ 1. Only Statement I is correct.

✗ 2.
Both Statements are correct. Statement I is correct explanation of Statement II.

✔ 3.
Both statements are correct. Statement II is correct explanation of Statement I.

✗ 4. Only Statement II is correct.

Question ID : **7518973738**
Option 1 ID : **75189714951**
Option 2 ID : **75189714950**
Option 3 ID : **75189714949**
Option 4 ID : **75189714952**
Status : **Answered**
Chosen Option : **3**

Q.4 Which incident prompted Mahatma Gandhi to end his non-cooperation agitation in February 1922?

Ans ✗ 1. Rowlatt Act endorsement

✔ 2. Chauri-Chaura incident

✗ 3. Jallianwala Bagh massacre

✗ 4. Khilafat Movement

Question ID : **7518977175**
Option 1 ID : **75189728699**
Option 2 ID : **75189728698**
Option 3 ID : **75189728697**
Option 4 ID : **75189728700**
Status : **Answered**
Chosen Option : **2**

Q.5 Two numbers are in the ratio 3 : 2. Their LCM and HCF are 24 and 4, respectively. The greater of the two numbers is:

Ans ✗ 1. 14

✗ 2. 10

✗ 3. 8

✔ 4. 12

Question ID : **7518975826**
Option 1 ID : **75189723304**
Option 2 ID : **75189723302**
Option 3 ID : **75189723301**
Option 4 ID : **75189723303**
Status : **Answered**
Chosen Option : **4**

Q.6 If the volume of a cube is $729\ cm^3$, then the edge of the cube is:

Ans
  ✗ 1. 24 cm

  ✓ 2. 9 cm

  ✗ 3. 12 cm

  ✗ 4. 3 cm

Q.7 An object is placed in front of a concave mirror of focal length 15 cm and its image is formed on the same side as the object, at a distance of 45 cm. The distance of the object from the mirror is:

Ans
  ✓ 1. 22.5 cm

  ✗ 2. 33.75 cm

  ✗ 3. 45 cm

  ✗ 4. 11.25 cm

Q.8 Substance X, which is used as an antacid, reacts with dilute hydrochloric acid to produce a gas Y, which is used in one type of fire-extinguisher. The substance X and gas Y, respectively, are:

Ans
  ✗ 1. $NaHCO_3$, CO

  ✗ 2. NaCl, CO_2

  ✓ 3. $NaHCO_3$, CO_2

  ✗ 4. NaOH, CO_2

Q.9 Baking powder is a mixture of:

Ans ✗ 1. sodium carbonate and tartaric acid

✗ 2. baking soda and washing soda

✓ 3. baking soda and mild edible acid

✗ 4. baking soda and bleaching powder

Q.10 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 condition is your answer.

Number/Symbol	7	4	&	@	?	8	<	#	2	%	!	5	=	6
Code		Q	S	R	T	U	P	W	Y	A	V	C	X	D	H

Conditions:

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

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

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

How will '2 @ 7 # = 5' be coded?

Ans ✓ 1. A T A Y D X

✗ 2. Q T Q Y D C

✗ 3. A T Q Y D X

✗ 4. Q T A Y D C

Q.11 $7.44\ldots + 3.77\ldots - 2.55\ldots =$

Ans

✓ 1. $\dfrac{78}{9}$

✗ 2. $\dfrac{74}{9}$

✗ 3. $\dfrac{124}{9}$

✗ 4. $\dfrac{83}{9}$

Q.12 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.)

(3, 5, 21)

(4, 2, 14)

Ans

✗ 1. $(6, 3, 12)$

✓ 2. $(8, 4, 28)$

✗ 3. $(5, 2, 19)$

✗ 4. $(7, 1, 23)$

Q.13 Which of the following numbers will replace the question mark (?) in the given series?

18, 19, 28, 53, 102, ?

Ans

✗ 1. 1389

✓ 2. 183

✗ 3. 198

✗ 4. 138

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Q.14 A train crosses a platform 90 metres long in 60 seconds at a speed of 54 km/h. Find the time the train will take to cross an electric pole.

Ans ✔ 1. 54 seconds

✘ 2. 48 seconds

✘ 3. 60 seconds

✘ 4. 58 seconds

Question ID : **7518976093**
Option 1 ID : **75189724371**
Option 2 ID : **75189724370**
Option 3 ID : **75189724369**
Option 4 ID : **75189724372**
Status : **Answered**
Chosen Option : **1**

Q.15 Pradhan Mantri Awaas Yojana–Gramin (PMAY-G), launched on 20 November 2016, envisages 'Housing for All' by the year _____.

Ans ✘ 1. 2024

✘ 2. 2025

✘ 3. 2023

✔ 4. 2022

Question ID : **7518976789**
Option 1 ID : **75189727155**
Option 2 ID : **75189727156**
Option 3 ID : **75189727154**
Option 4 ID : **75189727153**
Status : **Answered**
Chosen Option : **4**

Q.16 Which of the following is NOT an appropriate reason for the need of classification of elements?

Ans ✘ 1. To correlate the properties of different elements.

✔ 2. To give the elements positions according to their colour.

✘ 3. To understand the periodicity in properties of elements.

✘ 4.
To understand the specific position of an element in the periodic table.

Question ID : **7518973493**
Option 1 ID : **75189713972**
Option 2 ID : **75189713971**
Option 3 ID : **75189713969**
Option 4 ID : **75189713970**
Status : **Answered**
Chosen Option : **2**

Q.17 Which of the following options is the closest approximate value which will come in place of question mark(?) in the following equation?

$$\left(\sqrt{142} + 52 \div 26 \times 5 - \sqrt{80}\right) \times 2 = ?$$

Ans ✗ 1. 32

✗ 2. 30

✗ 3. 20

✔ 4. 26

Question ID : **7518977744**
Option 1 ID : **75189730976**
Option 2 ID : **75189730975**
Option 3 ID : **75189730973**
Option 4 ID : **75189730974**
Status : **Answered**
Chosen Option : **4**

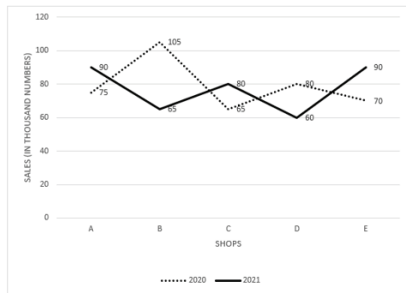**Q.18** In which state/UT of India can we find the Indira Gandhi Canal?

Ans ✔ 1. Rajasthan

✗ 2. West Bengal

✗ 3. Kerala

✗ 4. New Delhi

Question ID : **7518974500**
Option 1 ID : **75189717999**
Option 2 ID : **75189717997**
Option 3 ID : **75189718000**
Option 4 ID : **75189717998**
Status : **Answered**
Chosen Option : **1**

Q.19 The given line graph shows the sales of a product X (in thousand numbers) from five different shops A, B, C, D and E in the years 2020 and 2021. Study the line graph and answer the question.

What is the average sale from all the shops (in thousand numbers) for the year 2020?

Ans

✗ 1. 85

✗ 2. 80

✔ 3. 79

✗ 4. 82

Q.20 Which digestive enzyme is present in saliva?

Ans

✗ 1. Lipase

✔ 2. Amylase

✗ 3. Peptidase

✗ 4. Enterokinase

Q.21 Identify the world's second longest glacier located outside the polar region in Nubra Valley?

Ans

✗ 1. Hispar

✔ 2. Siachen

✗ 3. Baltaro

✗ 4. Batura

Q.22 What approximate value should come in place of the question mark (?) in the following equation?

$444.033 \div 15.998 \div 37.02 \times 11.992 = ?$

Ans
✖ 1. 81
✖ 2. 125
✔ 3. 9
✖ 4. 243

Question ID : **7518977407**
Option 1 ID : **75189729626**
Option 2 ID : **75189729627**
Option 3 ID : **75189729625**
Option 4 ID : **75189729628**
Status : **Answered**
Chosen Option : **3**

Q.23 The value of $143 - 144 \div 16 \times 3 - 1$ is:

Ans
✔ 1. 115
✖ 2. 123
✖ 3. 139
✖ 4. 133

Question ID : **7518976004**
Option 1 ID : **75189724014**
Option 2 ID : **75189724016**
Option 3 ID : **75189724013**
Option 4 ID : **75189724015**
Status : **Answered**
Chosen Option : **1**

Q.24 S, T, U, V, W, X, Y and Z were eight ministers, sitting around a circular table, facing the centre. They were equidistant to one another. Only V was sitting between S and X. Only T was sitting between Z and W. Y was sitting fourth to the left of W, while S was sitting fourth to the left of T. Z was sitting second to the left of Y. Which minister was sitting fourth to the left of X?

Ans
✔ 1. Only U
✖ 2. Either U or V
✖ 3. Only V
✖ 4. Only Z

Question ID : **7518977577**
Option 1 ID : **75189730307**
Option 2 ID : **75189730308**
Option 3 ID : **75189730305**
Option 4 ID : **75189730306**
Status : **Answered**
Chosen Option : **1**

Q.25 A statement is given followed by two possible underlying assumptions I and II. Read all the information carefully and decide which of the given assumptions can be assumed by the given statement.

Statement:

Following Country G's decision, which was taken a decade ago to control pollution, Country N has also decided to keep a cap on the number of cars in the country. So, now if someone in Country N wants to buy a car, they will have to wait until someone in the country sells their car or a car is registered as completely non-functional and is scrapped.

Assumptions:

I. The other transport options in Country N are enough to cater to the 'non-car owning' population of the country.

II. The decision was most likely successful in Country G in controlling pollution.

Ans

✗ 1. Neither I nor II can be assumed

✗ 2. Only I can be assumed

✓ 3. Both I and II can be assumed

✗ 4. Only II can be assumed

Question ID : 7518976765
Option 1 ID : 75189727060
Option 2 ID : 75189727057
Option 3 ID : 75189727059
Option 4 ID : 75189727058
Status : **Answered**
Chosen Option : **3**

Q.26 2016 में निर्वाचन आयोग द्वारा किस दल को राष्ट्रीय राजनीतिक दल के रूप में मान्यता दी गई थी, जिसका अधिकारिक चुनाव चिह्न जोरा घास फूल (दो फूलों सहित घास) है?

Ans

✓ 1. अखिल भारतीय तृणमूल कांग्रेस (AITC)

✗ 2. भारतीय कम्युनिस्ट पार्टी (CPI)

✗ 3. राष्ट्रवादी कांग्रेस पार्टी (NCP)

✗ 4. बहुजन समाज पार्टी (BSP)

Question ID : 7518974103
Option 1 ID : 75189716412
Option 2 ID : 75189716410
Option 3 ID : 75189716411
Option 4 ID : 75189716409
Status : **Answered**
Chosen Option : **1**

Q.27 A son's present age is two-fifth of the age of his mother. After 5 years, his age will be half the age of his mother. How old is his mother at present?

Ans

✗ 1. 36 years

✓ 2. 25 years

✗ 3. 32 years

✗ 4. 40 years

Question ID : 7518976155
Option 1 ID : 75189724619
Option 2 ID : 75189724617
Option 3 ID : 75189724618
Option 4 ID : 75189724620
Status : **Answered**
Chosen Option : **2**

Q.28 निम्नलिखित में से कौन सी नसबंदी विधि एक स्थायी विधि है?

Ans ✗ 1. गर्भनिरोधक गोलियों का उपयोग

✔ 2. सर्जरी द्वारा नसबंदी

✗ 3. कंडोम का उपयोग

✗ 4. कॉपर-टी का उपयोग

Question ID : 7518974418
Option 1 ID : 75189717671
Option 2 ID : 75189717672
Option 3 ID : 75189717669
Option 4 ID : 75189717670
Status : **Answered**
Chosen Option : **2**

Q.29 If the total surface area of a closed cube is 1014 cm^2 , then the length of each edge of this cube is:

Ans ✗ 1. 16 cm

✗ 2. 12 cm

✗ 3. 14 cm

✔ 4. 13 cm

Question ID : **7518976370**
Option 1 ID : **75189725480**
Option 2 ID : **75189725478**
Option 3 ID : **75189725479**
Option 4 ID : **75189725477**
Status : **Answered**
Chosen Option : **4**

Q.30 What is the name of India's first Green Hydrogen Fuel Cell Electric Vehicle (FCEV), launched by Union Minister Nitin Gadkari in March 2022?

Ans ✔ 1. Toyota Mirai

✗ 2. Toyota Urban

✗ 3. Toyota Yaris

✗ 4. Toyota Greed

Question ID : **7518973961**
Option 1 ID : **75189715843**
Option 2 ID : **75189715841**
Option 3 ID : **75189715842**
Option 4 ID : **75189715844**
Status : **Answered**
Chosen Option : **1**

Q.31 एक ट्रेडर ने एक व्यापारी से कुछ धन उधार लिया जिसके एवज में ₹8,000 की राशि एक वर्ष में देय है। ट्रेडर 2 महीने बाद खाते का निपटान करना चाहता है। यदि ब्याज की दर 9% वार्षिक है, तो उसे कितना भुगतान करना होगा (पूर्णांकित मान ज्ञात कीजिए)?

Ans
   ✗ 1. ₹7,424
   ✗ 2. ₹7,244
   ✔ 3. ₹7,442
   ✗ 4. ₹4,774

Q.32 The given table shows the details of the number of boys and girls from four different departments of a recognised university who got campus placements over the years. Study the table and answer the question.

Dept\Year	Department A		Department B		Department C		Department D	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
2017	150	200	200	150	180	200	110	120
2018	100	80	100	100	150	140	100	120
2019	150	130	120	140	100	80	200	150
2020	100	120	160	120	90	100	180	160

What is the difference between the number of boys and girls from all the departments who got campus placements in the year 2018?

Ans
   ✗ 1. 20
   ✗ 2. 25
   ✗ 3. 15
   ✔ 4. 10

Q.33 Six persons, P, Q, R, S, T and U, were born in different months of the same year, viz. January, February, March, April, May and June. U was born in the immediate next month of Q's birth month. R was born in May. P was not born in January. S was not born in April. Only one person was born between the months of P and R's birth months. In which month was T born?

Ans ✖ 1. March

✔ 2. April

✖ 3. February

✖ 4. June

Q.34 The ratio of the number of boys to that of the girls in a school is 7 : 9. If the number of girls in the school is 189, then the number of boys in that school is:

Ans ✔ 1. 147

✖ 2. 168

✖ 3. 126

✖ 4. 105

Q.35 An object is placed in front of a convex mirror of focal length 10 cm, at a distance of 15 cm. Its image is formed at a distance of _____ and is _____.

Ans ✖ 1. 30 cm, virtual

✔ 2. 6 cm, virtual

✖ 3. 30 cm, real

✖ 4. 6 cm, real

Q.36 If $a + b = 25$ and $a - b = 13$, find the value of $(a + b)^2$.

Ans   ✗ 1.   225

     ✓ 2.   625

     ✗ 3.   525

     ✗ 4.   496

Question ID : **7518976121**
Option 1 ID : **75189724483**
Option 2 ID : **75189724481**
Option 3 ID : **75189724482**
Option 4 ID : **75189724484**
Status : **Answered**
Chosen Option : **2**

Q.37 If $\sin\theta > \cos\theta$, then the value of $\dfrac{\sqrt{1-2\sin\theta\cos\theta} + \sqrt{1+2\sin\theta\cos\theta}}{2\tan\theta}$ is:

Ans   ✗ 1. $\text{Cot}\theta$

     ✗ 2. $\text{Sin}\theta$

     ✓ 3. $\text{Cos}\theta$

     ✗ 4. $\text{Tan}\theta$

Question ID : **7518976389**
Option 1 ID : **75189725554**
Option 2 ID : **75189725556**
Option 3 ID : **75189725553**
Option 4 ID : **75189725555**
Status : **Answered**
Chosen Option : **3**

Q.38 Consider the magnitudes and directions of the induced potential difference in the following situations:

(a) A current-carrying straight wire moving with a speed of 1.5 m/s towards a stationary coil.

(b) The same current-carrying straight wire moving away with a speed of 1.5 m/s from the same stationary coil.

The induced potential differences are of _____ magnitude(s) and have _____ sign(s) in the above two cases.

Ans   ✗ 1.   different, the same

     ✓ 2.   the same, opposite

     ✗ 3.   different, opposite

     ✗ 4.   the same, the same

Question ID : **7518976754**
Option 1 ID : **75189727014**
Option 2 ID : **75189727016**
Option 3 ID : **75189727013**
Option 4 ID : **75189727015**
Status : **Answered**
Chosen Option : **2**

Q.39 In February 2022, CBI detected India's biggest bank fraud of ₹22,842 crore with 28 banks. Who was booked by CBI for this fraud?

Ans

✗ 1. Sea Blue Shipyard Limited

✗ 2. Goa Shipyard Limited

✗ 3. Hindustan Shipyard Limited

✓ 4. ABG Shipyard

Question ID : 7518973868
Option 1 ID : 75189715471
Option 2 ID : 75189715469
Option 3 ID : 75189715470
Option 4 ID : 75189715472
Status : **Answered**
Chosen Option : **1**

Q.40 Find the mode of the observations 23, 27, 38, 42, 27, 58, 69, 71, 45.

Ans

✗ 1. 71
✓ 2. 27
✗ 3. 45
✗ 4. 42

Question ID : 7518976115
Option 1 ID : 75189724460
Option 2 ID : 75189724457
Option 3 ID : 75189724459
Option 4 ID : 75189724458
Status : **Answered**
Chosen Option : **2**

Q.41 A car can cover a distance of 25 km per litre of petrol. The driver of the car filled the tank with $5\frac{1}{2}$ litres of petrol. After travelling how much distance (in km) will the car stop?

Ans

✗ 1. 140.5
✓ 2. 137.5
✗ 3. 135.5
✗ 4. 125.5

Question ID : 7518975804
Option 1 ID : 75189723216
Option 2 ID : 75189723215
Option 3 ID : 75189723214
Option 4 ID : 75189723213
Status : **Answered**
Chosen Option : **2**

Q.42 Which of the following numbers will replace the question mark (?) in the given series?

28, 32, 39, 52, 74, ?

Ans ✗ 1. 110

✗ 2. 100

✗ 3. 112

✓ 4. 108

Q.43 If 2 is added to each odd digit and 2 is subtracted from each even digit in the number given below, what will be the difference in the digits that are third from the left and third from the right in the new number thus formed?

(Left) 32578641 (Right)

Ans ✗ 1. 2

✗ 2. 4

✓ 3. 3

✗ 4. 5

Q.44 Study the given arrangement carefully and answer the question that follows.

(Left) £ & 6 @ 4 ♪ 2 4 % 1 3 ^ 3 ¥ @ 8 8 % 7 (Right)

How many such symbols are there in the above arrangement each of which is immediately followed by a number and immediately preceded by a symbol?

Ans ✗ 1. 3

✗ 2. 4

✗ 3. 1

✓ 4. 2

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 / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(7, 150, 23)

(14, 100, 6)

Ans ✗ 1. (9, 80, 11)

✓ 2. (15, 140, 13)

✗ 3. (8, 90, 11)

✗ 4. (4, 108, 16)

Q.46 Simplify: $2\left(\frac{3}{2}x^2 - 24x + 12\right) - 3(x^2 + 4x - 13)$.

Ans ✗ 1. $60x + 63$

✗ 2. $-60x - 63$

✗ 3. $60x - 63$

✓ 4. $-60x + 63$

Q.47 What is constant along an isoquant?

Ans ✗ 1. Level of labour

✗ 2. Level of utility

✗ 3. Level of capital

✓ 4. Level of output

Q.48 Which river system enters Indian territory in Jammu and Kashmir by forming a picturesque gorge?

Ans ✗ 1. Narmada River System

✗ 2. Godavari River System

✗ 3. Brahmaputra River System

✔ 4. Indus River System

Q.49 If 12 : x :: x : 27, and 25 : y :: y : 36, when x and y are both positive numbers, find x : y.

Ans ✗ 1. 5 : 6

✗ 2. 4 : 7

✗ 3. 7 : 9

✔ 4. 3 : 5

Q.50 The roots of the quadratic equation $2x^2 - x - 3 = 0\ are$:

Ans ✗ 1. $1, \dfrac{3}{2}$

✗ 2. $-1, -\dfrac{3}{2}$

✗ 3. $1, -\dfrac{3}{2}$

✔ 4. $-1, \dfrac{3}{2}$

Q.51 You get cramps after participating in a 400 m race. Which option best explains the reason for the same?

Ans ✗ 1. Lack of oxygen and pyruvate is converted to ethanol

✗ 2. Enough oxygen and pyruvate converted to lactic acid

✗ 3. Lack of oxygen and pyruvate is converted to glucose

✓ 4. Lack of oxygen and pyruvate converted to lactic acid

Question ID : **7518974586**
Option 1 ID : **75189718342**
Option 2 ID : **75189718343**
Option 3 ID : **75189718344**
Option 4 ID : **75189718341**
Status : **Answered**
Chosen Option : **4**

Q.52 Decomposition reaction is when:

Ans ✓ 1. one reactant breaks down to give simpler products

✗ 2. one element displaces another to give product

✗ 3.

one reactant breaks down to simple products and energy released

✗ 4. two or more reactants give one product

Question ID : **7518973577**
Option 1 ID : **75189714305**
Option 2 ID : **75189714306**
Option 3 ID : **75189714308**
Option 4 ID : **75189714307**
Status : **Answered**
Chosen Option : **3**

Q.53 इनमें से किस राज्य/केंद्र शासित प्रदेश की सरकार ने जुलाई 2021 में कोविड-19 (COVID-19) महामारी की स्थिति को ध्यान में रखते हुए बेघर बच्चों के कल्याण के लिए एक नीति तैयार की है?

Ans ✓ 1. दिल्ली

✗ 2. हरियाणा

✗ 3. पुदुचेरी

✗ 4. उत्तर प्रदेश

Question ID : **7518973977**
Option 1 ID : **75189715905**
Option 2 ID : **75189715906**
Option 3 ID : **75189715907**
Option 4 ID : **75189715908**
Status : **Answered**
Chosen Option : **1**

Q.54 हिंदू धर्म में, इनमें से किस देवता को सृजनकर्ता माना जाता है?

Ans

✗ 1. विष्णु

✗ 2. महेश

✗ 3. गणेश

✓ 4. ब्रह्मा

Question ID : 7518977488
Option 1 ID : 75189729950
Option 2 ID : 75189729949
Option 3 ID : 75189729952
Option 4 ID : 75189729951
Status : **Answered**
Chosen Option : **4**

Q.55 Seven people with the initials of their names G, H, I, J, K, L and M were sipping their tea, sitting around a circular table, facing the centre. They were equidistant to one another. K was sitting to the immediate right of I. Only H was sitting between M and J. L was an immediate neighbour of M. G was sitting third to the right and fourth to the left of J. Who were the immediate neighbours of G?

Ans

✗ 1. M and I

✗ 2. L and I

✗ 3. K and M

✓ 4. K and L

Question ID : 7518977573
Option 1 ID : 75189730291
Option 2 ID : 75189730289
Option 3 ID : 75189730290
Option 4 ID : 75189730292
Status : **Answered**
Chosen Option : **4**

Q.56 A bulb draws a current of 3 A when connected to a battery of 12 V. The power of the bulb is:

Ans

✗ 1. 4 W

✗ 2. 18 W

✗ 3. 12 W

✓ 4. 36 W

Question ID : 7518976712
Option 1 ID : 75189726848
Option 2 ID : 75189726846
Option 3 ID : 75189726847
Option 4 ID : 75189726845
Status : **Answered**
Chosen Option : **4**

Q.57 Which of the following is/are the characteristic(s) of Monopoly market?

(i) There is a single producer of a particular commodity.

(ii) No other commodity works as a substitute for this commodity.

(iii) There are no restrictions to prevent any other firm from entering the market and to start selling the same commodity.

Ans ✗ 1. Only i

✔ 2. Only i and ii

✗ 3. Only ii and iii

✗ 4. Only i and iii

Q.58 Which of the following expenses is a part of 'fixed cost' in production of surgical garments?

Ans ✗ 1. Waste disposal

✔ 2. Workers' salary

✗ 3. Electricity

✗ 4. Water

Q.59 The _____ of Constitution of India is related to Panchayati Raj Institutions.

Ans ✗ 1. Part-V

✗ 2. Part-III

✔ 3. Part-IX

✗ 4. Part-IV

Q.60 In which state/UT was the first Khelo India National Ranking Women Archery held in April 2022?

Ans ✗ 1. Haryana

✗ 2. Himachal Pradesh

✔ 3. Jharkhand

✗ 4. Delhi

Question ID : **7518974127**
Option 1 ID : **75189716505**
Option 2 ID : **75189716507**
Option 3 ID : **75189716506**
Option 4 ID : **75189716508**
Status : **Answered**
Chosen Option : **3**

Q.61 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.

POT : UPQ

EST : UTF

Ans ✔ 1. CAT : UBD

✗ 2. TOW : UPU

✗ 3. MEN : NFO

✗ 4. PTU : VUV

Question ID : **7518977708**
Option 1 ID : **75189730831**
Option 2 ID : **75189730832**
Option 3 ID : **75189730830**
Option 4 ID : **75189730829**
Status : **Answered**
Chosen Option : **1**

Q.62 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:

Few mice are rats

Most rats are vultures

All vultures are hawks

Conclusions:

(I) Few mice are vultures

(II) Some hawks are mice

(III) Some rats are hawks

Ans   ✗ 1. All conclusions I, II and III follow

   ✗ 2. Only conclusion I and III follow

   ✔ 3. Only conclusion III follows

   ✗ 4. Only conclusion I follows

Q.63 In a certain code language, 'ASSURED' is written as 'TTBUEFS' and 'BENEFIT' is written as 'OFCEUJG'. How will 'CABINET' be written in that language?

Ans   ✗ 1. CBDJUFO

   ✔ 2. CBDIUFO

   ✗ 3. DBCIOFU

   ✗ 4. CBDIUFU

Q.64 Q, R, S, T, U, V and W are seven boxes, kept one over the other but not necessarily in the same order. Only one box is kept between Q and R. W is kept immediately above Q. Only one box is kept between R and U. T is kept immediately below R. How many boxes are kept between T and W?

Ans   ✗ 1. 1

   ✗ 2. 2

   ✔ 3. 3

   ✗ 4. 4

Q.65 Identify the correct statement from the ones given below based on the way Mendel conducted his experiments.

Ans ✗ 1.

Self-fertilisation of plants was performed initially, followed by cross-fertilisation.

✔ 2.

Cross-fertilisation of plants was performed initially, followed by self-fertilisation.

✗ 3. Only self-fertilisation was performed.

✗ 4. Only cross-fertilisation was performed.

> Question ID : **7518974440**
> Option 1 ID : **75189717760**
> Option 2 ID : **75189717759**
> Option 3 ID : **75189717758**
> Option 4 ID : **75189717757**
> Status : **Answered**
> Chosen Option : **1**

Q.66 Which language among the following is a Sino-Tibetan language spoken by people of north-east India?

Ans ✗ 1. Maithili

✗ 2. Santhali

✗ 3. Dogri

✔ 4. Bodo

> Question ID : **7518977481**
> Option 1 ID : **75189729922**
> Option 2 ID : **75189729921**
> Option 3 ID : **75189729924**
> Option 4 ID : **75189729923**
> Status : **Not Answered**
> Chosen Option : **--**

Q.67 Which of the following wrestlers won gold in the Asian wrestling championship-2022?

Ans ✗ 1. Anshu Malik

✔ 2. Ravi K Dahiya

✗ 3. Deepak Punia

✗ 4. Radhika

> Question ID : **7518976793**
> Option 1 ID : **75189727170**
> Option 2 ID : **75189727169**
> Option 3 ID : **75189727171**
> Option 4 ID : **75189727172**
> Status : **Answered**
> Chosen Option : **2**

Q.68 Aditya bought a flat for ₹5,50,000. He spent ₹25,000 on its painting and repair. If he sold it for ₹5,37,625, then his loss percentage is:

Ans

✗ 1. 4.5%

✗ 2. 5.5%

✔ 3. 6.5%

✗ 4. 7.5%

Q.69 Two trains P and Q, having lengths of 300 m and 340 m respectively, are running towards each other. If P and Q are running at speeds of 35 m/s and 45 m/s, respectively, then how long will they take to cross each other?

Ans

✗ 1. 9 sec

✗ 2. 8.5 sec

✗ 3. 7 sec

✔ 4. 8 sec

Q.70 A battery is connected to a conductor, and a current I passes through it. If the resistance of the conductor is made four times, the current _____.

Ans

✗ 1. remains I

✗ 2. becomes $\left(\frac{I}{2}\right)$

✔ 3. becomes $\left(\frac{I}{4}\right)$

✗ 4. becomes 4I

Q.71 Select the option that correctly indicates which of the following statements are true.

When a strip of zinc metal is placed in copper sulphate solution:

    (i)   zinc displaces copper from copper sulphate

    (ii)   the blue colour of copper sulphate solution does not fade

    (iii)   a blue deposit of copper metal is formed on the zinc strip

    (iv)   it is an example of combination reaction

Ans ✗ 1. ii

    ✗ 2. iii

    ✔ 3. i

    ✗ 4. iv

Q.72 In February 2021, who launched the ICMR/DHR Policy along with Dr. Bharti Pravin Pawar on Biomedical Innovation and Entrepreneurship to bring modern health technologies to the people through research and innovations related to diagnosis, treatment methods and vaccines for prevention?

Ans ✗ 1. Dr. Pradeep Kumar Vyas

    ✔ 2. Dr. Mansukh Mandaviya

    ✗ 3. Dr. Harsh Vardhan

    ✗ 4. Dr. Maninder Kaur Dwivedi

Q.73 Each consonant in the word *'COMPARE'* is changed to the letter following it in the English alphabetical order, and each vowel 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. Only Q

    ✔ 2. D and N

    ✗ 3. Only D

    ✗ 4. Only N

Q.74 A conductor is connected to a battery of 2V. Let V_1 be the potential difference across the conductor. When a battery of 4 V is connected, the potential difference becomes V_2. The ratio(V_1/V_2) is:

Ans

✗ 1. 4

✗ 2. $\dfrac{1}{4}$

✗ 3. 2

✔ 4. $\dfrac{1}{2}$

Q.75 The sum of two natural numbers, x and y, is 320 and the HCF of x and y is 20. If x > y, how many such possible pairs of x and y are there?

Ans

✗ 1. 8

✔ 2. 4

✗ 3. 2

✗ 4. 6

Q.76 What is the nature of the roots of $\sqrt{3}x^2 + 6x - \sqrt{3} = 0$?

Ans

✗ 1. The roots are real and equal.

✗ 2. The roots are real and more than 2.

✗ 3. There are no real roots.

✔ 4. The roots are real and distinct.

Q.77 How will quarter to eight be indicated in the 24-hour format?

Ans ✔ 1. 19:45 hours

✘ 2. 20:45 hours

✘ 3. 19:15 hours

✘ 4. 20:15 hours

Question ID : **7518976772**
Option 1 ID : **75189727085**
Option 2 ID : **75189727088**
Option 3 ID : **75189727087**
Option 4 ID : **75189727086**
Status : **Answered**
Chosen Option : **1**

Q.78 Consider the following statements:

(a) The particles in clouds are larger than the wavelength of different colours in white light coming from the sun.

(b) All colours of white light are scattered by approximately the same amount.

Which of the above statements help(s) us to understand the white colour of clouds during sunshine?

Ans ✘ 1. Only (a)

✔ 2. Both (a) and (b)

✘ 3. Neither (a) nor (b)

✘ 4. Only (b)

Question ID : **7518976656**
Option 1 ID : **75189726621**
Option 2 ID : **75189726623**
Option 3 ID : **75189726624**
Option 4 ID : **75189726622**
Status : **Answered**
Chosen Option : **4**

Q.79 Veronica started from a point and walked 25 m towards the west, she then turned right and walked for 5 m. From there she turned right and walked for 15 m, turned right again, and walked for 5 m. Which side should she turn now and how much distance should she walk for in order to reach the starting point?

(All turns are 90 degree turns only)

Ans ✘ 1. Right, 15 m

✔ 2. Left, 10 m

✘ 3. Left, 15 m

✘ 4. Right, 10 m

Question ID : **7518974843**
Option 1 ID : **75189719372**
Option 2 ID : **75189719371**
Option 3 ID : **75189719369**
Option 4 ID : **75189719370**
Status : **Answered**
Chosen Option : **2**

Q.80 If a regular polygon has 65 diagonals, then the sum of its interior angles is:

Ans ✗ 1. 1620°

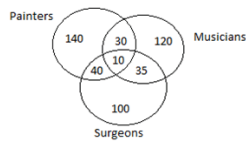✗ 2. 1800°

✔ 3. 1980°

✗ 4. 1440°

Question ID : **7518976376**
Option 1 ID : **75189725502**
Option 2 ID : **75189725503**
Option 3 ID : **75189725504**
Option 4 ID : **75189725501**
Status : **Answered**
Chosen Option : **3**

Q.81 Which tributary of Ganga is known as the 'sorrow of Bihar'?

Ans ✗ 1. Alaknanda

✗ 2. Gaumukh

✔ 3. Kosi

✗ 4. Damodar

Question ID : **7518977263**
Option 1 ID : **75189729052**
Option 2 ID : **75189729051**
Option 3 ID : **75189729049**
Option 4 ID : **75189729050**
Status : **Answered**
Chosen Option : **3**

Q.82 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons living in a village.

How many surgeons are living in the village?

Ans ✗ 1. 100

✔ 2. 185

✗ 3. 35

✗ 4. 150

Question ID : **7518977619**
Option 1 ID : **75189730474**
Option 2 ID : **75189730473**
Option 3 ID : **75189730476**
Option 4 ID : **75189730475**
Status : **Answered**
Chosen Option : **2**

Q.83 Five boxes G, T, Y, R and U are placed one over the other but not necessarily in the same order. Exactly two boxes are placed between T and Y, but T is neither at the bottom nor at the top and not at any position above Y. What is the position of T from the bottom?

Ans
✗ 1. Fourth

✗ 2. Third

✓ 3. Second

✗ 4. First

Question ID : 7518974733
Option 1 ID : 75189718931
Option 2 ID : 75189718930
Option 3 ID : 75189718929
Option 4 ID : 75189718932
Status : **Answered**
Chosen Option : **3**

Q.84 A is two years older than B, who is twice as old as C. If the total of their ages is 32, then what is the age of B?

Ans
✗ 1. 7 years

✗ 2. 8 years

✓ 3. 12 years

✗ 4. 14 years

Question ID : 7518976149
Option 1 ID : 75189724593
Option 2 ID : 75189724594
Option 3 ID : 75189724595
Option 4 ID : 75189724596
Status : **Answered**
Chosen Option : **3**

Q.85 नवकलेवर उत्सव इनमें से किस राज्य में मनाया जाता है?

Ans
✗ 1. तमिलनाडु

✓ 2. ओडिशा

✗ 3. हरियाणा

✗ 4. कर्नाटक

Question ID : 7518974181
Option 1 ID : 75189716722
Option 2 ID : 75189716723
Option 3 ID : 75189716721
Option 4 ID : 75189716724
Status : **Answered**
Chosen Option : **3**

Q.86 The magnitude of the magnetic field due to a current-carrying circular coil varies with the number of turns n as _____.

Ans

✗ 1. $\frac{1}{n^2}$

✔ 2. n

✗ 3. n^2

✗ 4. $\frac{1}{n}$

Question ID : **7518976731**
Option 1 ID : **75189726922**
Option 2 ID : **75189726923**
Option 3 ID : **75189726924**
Option 4 ID : **75189726921**
Status : **Answered**
Chosen Option : **2**

Q.87 If the mean and the mode of a particular data set are 36 and 63, respectively, then, using an empirical relation, find the value of the median of the same data set.

Ans

✗ 1. 55

✔ 2. 45

✗ 3. 40

✗ 4. 39

Question ID : **7518975904**
Option 1 ID : **75189723616**
Option 2 ID : **75189723615**
Option 3 ID : **75189723614**
Option 4 ID : **75189723613**
Status : **Answered**
Chosen Option : **2**

Q.88 Fundamental Rights are described from Article 12 to _____ in the Indian Constitution.

Ans

✔ 1. Article 35

✗ 2. Article 38

✗ 3. Article 42

✗ 4. Article 40

Question ID : **7518977555**
Option 1 ID : **75189730217**
Option 2 ID : **75189730218**
Option 3 ID : **75189730220**
Option 4 ID : **75189730219**
Status : **Answered**
Chosen Option : **1**

Q.89 Which of the following is a property of combustion reaction?

Ans ✗ 1. In the presence of sunlight, reaction occurs.

✔ 2. An element burns in the presence of oxygen.

✗ 3. The reaction happens with absorption of light.
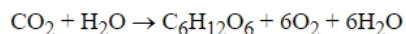
✗ 4. The reaction happens with absorption of heat.

Question ID : **7518973535**
Option 1 ID : **75189714138**
Option 2 ID : **75189714137**
Option 3 ID : **75189714140**
Option 4 ID : **75189714139**
Status : **Answered**
Chosen Option : **4**

Q.90 Raj invested ₹14,000 at 10% p.a. for 1 year at compound interest, compounded half-yearly. The amount received by him is:

Ans ✗ 1. ₹13,542

✗ 2. ₹14,354

✗ 3. ₹14,765

✔ 4. ₹15,435

Question ID : **7518975619**
Option 1 ID : **75189722474**
Option 2 ID : **75189722473**
Option 3 ID : **75189722475**
Option 4 ID : **75189722476**
Status : **Answered**
Chosen Option : **4**

Q.91 For the following reaction, balance the chemical equation with state symbols.

$$CO_2 + H_2O \rightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$$

Ans ✗ 1. $CO_2(g) + 6H_2O(l) \rightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$

✗ 2. $CO_2 (g) + 12H_2O (l) \rightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$

✔ 3.
$6 CO_2(g) + 12H_2O (l) \rightarrow C_6H_{12}O_6 (aq) + 6O_2(g) + 6H_2O (l)$

✗ 4.
$6 CO_2 (aq) + 12H_2O (l) \rightarrow C_6H_{12}O_6 (aq) + 6O_2(aq) + 6H_2O (l)$

Question ID : **7518973568**
Option 1 ID : **75189714269**
Option 2 ID : **75189714270**
Option 3 ID : **75189714272**
Option 4 ID : **75189714271**
Status : **Answered**
Chosen Option : **3**

Q.92 Rekha, from point A, walks 41 m towards the west. She takes a right turn and walks 84 m. She takes a right turn again and walks 92 m. Again, she takes a right turn and walks 84 m. She takes a right turn again and walks 19 m to reach point B. How far and in which direction is point B from point A? (All turns are 90 degree turns only)

Ans
❌ 1. 30 m, East

✅ 2. 32 m, East

❌ 3. 30 m, West

❌ 4. 32 m, West

Q.93 You have prepared a temporary slide of Rhoeo leaf in water. What change will you observe when you put a strong solution of sugar on the slide?

Ans
❌ 1. No change will be seen

❌ 2. Cells of the leaf will take in water and swell

❌ 3. Some cells will take in water; others will lose water

✅ 4.

Cells will lose water and there will be shrinkage of contents of the cell away from the cell wall

Q.94 This question is based on the following 3-letter words.
(left) MAT CRY NIB DON (right)

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
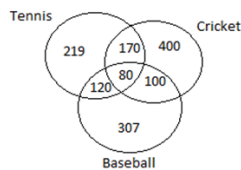❌ 1. Four

❌ 2. Three

✅ 3. One

❌ 4. Two

Q.95 A particular locality is focusing on three R's — Recycle, Reuse and Reduce — to decrease the production of non-biodegradable waste. What will be the correct sequence to follow them?

Ans ✗ 1. Reuse, Recycle, Reduce

✔ 2. Reduce, Reuse, Recycle

✗ 3. Recycle, Reuse, Reduce

✗ 4. Recycle, Reduce, Reuse

Question ID : 7518974679
Option 1 ID : 75189718713
Option 2 ID : 75189718714
Option 3 ID : 75189718716
Option 4 ID : 75189718715
Status : Answered
Chosen Option : 4

Q.96 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons who like different sports.

How many people like both cricket and baseball?

Ans ✗ 1. 210

✗ 2. 100

✔ 3. 180

✗ 4. 80

Question ID : 7518977613
Option 1 ID : 75189730452
Option 2 ID : 75189730450
Option 3 ID : 75189730451
Option 4 ID : 75189730449
Status : Answered
Chosen Option : 3

Q.97 In the given question, the statement is followed by two conclusions. Which of the two conclusion(s) is/are true based on the given statement?

Statement: $U = L > Y \leq C = I > G$

Conclusions: I. $U \leq C$

II. $C > G$

Ans ✗ 1. Only conclusion I is true

✔ 2. Only conclusion II is true

✗ 3. Neither conclusion I nor II is true

✗ 4. Both conclusions I and II are true

Question ID : 7518977631
Option 1 ID : 75189730521
Option 2 ID : 75189730522
Option 3 ID : 75189730524
Option 4 ID : 75189730523
Status : Answered

Q.98 Why do the root's water-absorbing epidermal cells frequently have long hair-like parts?

Ans ✗ 1. For locomotion

✗ 2.
To reduce the amount of surface area available for photosynthesis

✗ 3.
To enhance the amount of surface area available for transpiration

✓ 4.
To enhance the amount of surface area available for absorption

Question ID : **7518974341**
Option 1 ID : **75189717361**
Option 2 ID : **75189717362**
Option 3 ID : **75189717364**
Option 4 ID : **75189717363**
Status : **Not Answered**
Chosen Option : **--**

Q.99 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 _ B _ _ B _ _ BA _ B _ MB _

Ans ✓ 1. BMABAMBAA

✗ 2. ABAMAABBM

✗ 3. AMBBMBAMM

✗ 4. MABBABAAB

Question ID : **7518974785**
Option 1 ID : **75189719140**
Option 2 ID : **75189719138**
Option 3 ID : **75189719139**
Option 4 ID : **75189719137**
Status : **Answered**
Chosen Option : **1**

Q.100 In the given question, the statement is followed by two conclusions. Which of the two conclusion(s) is/are true based on the given statement?

Statement: $ < # = & ≤ @ > * = !

Conclusions: I. * > &

II. # < !

Ans ✗ 1. Only conclusion I is true

✓ 2. Neither conclusion I nor II is true

✗ 3. Only conclusion II is true

✗ 4. Both conclusions I and II are true

Question ID : **7518977629**
Option 1 ID : **75189730513**
Option 2 ID : **75189730516**
Option 3 ID : **75189730514**
Option 4 ID : **75189730515**
Status : **Answered**
Chosen Option : **2**