Roll Number	
Candidate Name	
Test Center Name	iON Digital Zone iDZ Village Adampur Raisen Road
Test Date	18/08/2022
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 Which of the following numbers will replace the question mark (?) in the given series?

0, 2, 6, 12, 20, ?

Ans ✔ 1. 30

✗ 2. 35

✗ 3. 28

✗ 4. 34

Question ID : **7518974855**
Option 1 ID : **75189719417**
Option 2 ID : **75189719418**
Option 3 ID : **75189719419**
Option 4 ID : **75189719420**
Status : **Answered**
Chosen Option : **1**

Q.2 The position of how many letters will remain unchanged if each of the letters in the word 'LAMENT' is arranged in alphabetical order?

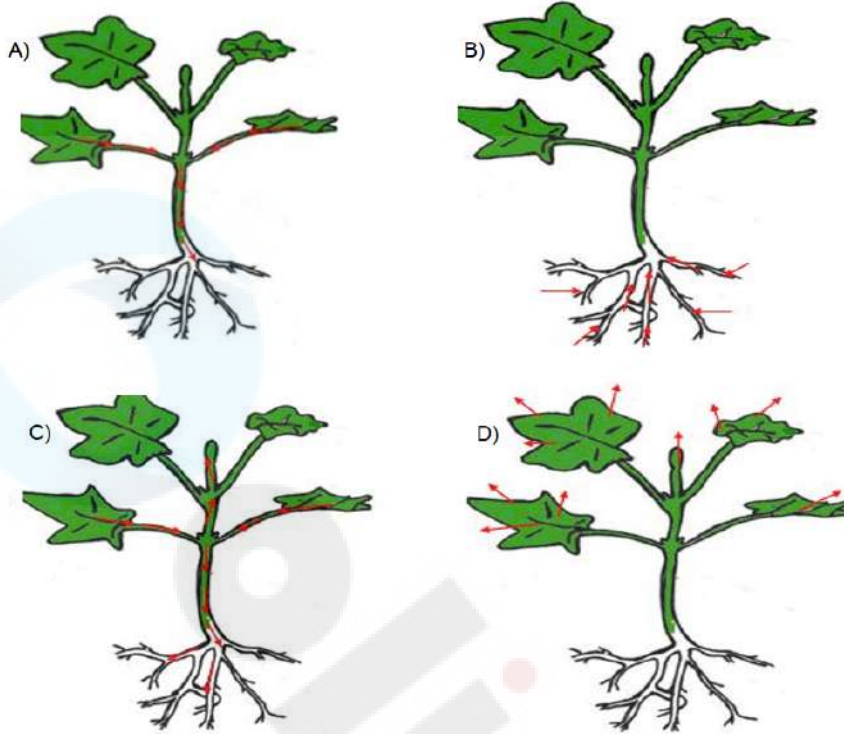**Ans** ✔ 1. Two

✗ 2. None

✗ 3. One

✗ 4. Three

Question ID : **7518975225**
Option 1 ID : **75189720899**
Option 2 ID : **75189720897**
Option 3 ID : **75189720898**
Option 4 ID : **75189720900**
Status : **Answered**
Chosen Option : **1**

Q.3 Which figure is the correct representation of the movement of food in phloem?

A)

B)

C)

D)

Ans ✓ 1. C

✗ 2. B

✗ 3. D

✗ 4. A

Q.4 If the difference between two numbers is 52 and they are in the ratio 7 : 3, then find the greater of the two numbers.

Ans ✗ 1. 84

✗ 2. 65

✓ 3. 91

✗ 4. 70

Q.5 30 people are standing in a queue facing north. Manoj is standing at the 11th position from the front. Shahin is standing at the 7th position from the back. Neeraj is standing exactly in front of Shahin. How many people are standing between Neeraj and Manoj?

Ans

✔ 1. 11

✘ 2. 13

✘ 3. 12

✘ 4. 10

Question ID : 7518974720
Option 1 ID : 75189718877
Option 2 ID : 75189718880
Option 3 ID : 75189718878
Option 4 ID : 75189718879
Status : **Answered**
Chosen Option : **1**

Q.6 A motor car starts with a speed of 60 km/h and increases its speed after every two hours by 15 km/h. In how much time will it cover a distance of 360 km?

Ans

✘ 1. 2 hours

✘ 2. 9 hours

✘ 3. 7 hours

✔ 4. 5 hours

Question ID : 7518976089
Option 1 ID : 75189724353
Option 2 ID : 75189724356
Option 3 ID : 75189724355
Option 4 ID : 75189724354
Status : **Answered**
Chosen Option : **4**

Q.7 If 9 : 12 :: 12 : x, and 28 : 42 :: 42 : y, then the value of 2x + y is:

Ans

✔ 1. 95

✘ 2. 79

✘ 3. 69

✘ 4. 84

Question ID : 7518976268
Option 1 ID : 75189725070
Option 2 ID : 75189725069
Option 3 ID : 75189725072
Option 4 ID : 75189725071
Status : **Answered**
Chosen Option : **1**

Q.8 Which of the following is NOT a biotic component of the ecosystem?

Ans ✗ 1. Frog

✔ 2. Soil

✗ 3. Insect

✗ 4. Flower

Question ID : **7518974462**
Option 1 ID : **75189717848**
Option 2 ID : **75189717845**
Option 3 ID : **75189717847**
Option 4 ID : **75189717846**
Status : **Answered**
Chosen Option : **2**

Q.9 The HCF of any set of 10 co-prime numbers is always

Ans ✔ 1. 1

✗ 2. 10

✗ 3. 0

✗ 4. 2

Question ID : **7518975585**
Option 1 ID : **75189722340**
Option 2 ID : **75189722339**
Option 3 ID : **75189722338**
Option 4 ID : **75189722337**
Status : **Answered**
Chosen Option : **1**

Q.10 Which two numbers should be interchanged to make the given equation correct?

$7 \times 8 + 9 - 6 \div 3 = 59$

Ans ✗ 1. 3 and 6

✗ 2. 8 and 9

✗ 3. 7 and 3

✔ 4. 6 and 9

Question ID : **7518975328**
Option 1 ID : **75189721312**
Option 2 ID : **75189721310**
Option 3 ID : **75189721309**
Option 4 ID : **75189721311**
Status : **Answered**
Chosen Option : **4**

Q.11 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.

11 : 130 : : 7 : 58 : : 15 : ?

Ans ✔ 1. 234

✗ 2. 248

✗ 3. 216

✗ 4. 224

Q.12 Consider the below statements and identify the correct answer.

Statement-I: If a substance loses oxygen during a reaction, it is said to be reduced.

Statement-II: If a substance gains hydrogen during a reaction, it is said to be reduced.

Ans ✗ 1. Statement-I is false, and Statement-II is true.

✗ 2. Both the statements are false.

✔ 3. Both the statements are true.

✗ 4. Statement-I is true, and Statement-II is false.

Q.13 Which of the following places is a harnessing site for geothermal energy in India?

Ans ✗ 1. Bokaro

✔ 2. Manikaran

✗ 3. Tarapur

✗ 4. Kolkata

Q.14

In March 2022, which state has become the first to start 'Air Health Service' in rural areas?

Ans

✗ 1. Gujarat

✗ 2. Tamil Nadu

✗ 3. Bihar

✔ 4. Odisha

Question ID : **7518973776**
Option 1 ID : **75189715102**
Option 2 ID : **75189715101**
Option 3 ID : **75189715104**
Option 4 ID : **75189715103**
Status : **Answered**
Chosen Option : **1**

Q.15 Find the area of a triangle whose sides are 12 m, 14 m and 16 m.

Ans

✔ 1. $21\sqrt{15}\ m^2$

✗ 2. $7\sqrt{15}\ m^2$

✗ 3. $2\sqrt{15}\ m^2$

✗ 4. $\sqrt{15}\ m^2$

Question ID : **7518975746**
Option 1 ID : **75189722981**
Option 2 ID : **75189722983**
Option 3 ID : **75189722982**
Option 4 ID : **75189722984**
Status : **Answered**
Chosen Option : **1**

Q.16

Which of the following is worshipped by people during the festival of Pongal?

Ans

✗ 1. God Shiva

✗ 2. The Moon

✗ 3. Maa Durga

✔ 4. The Sun

Q.17 One of the roots of the equation $x^2 - 12x + k = 0$ is $x = 3$. The other root is _____.

Ans

✗ 1. $x = 4$

✔ 2. $x = 9$

✗ 3. $x = -4$

✗ 4. $x = -9$

Q.18 If three numbers are in the ratio 5 : 6 : 8 and the sum of their squares is 1250, then the product of those numbers is:

Ans

✗ 1. 2400

✔ 2. $2400\sqrt{10}$

✗ 3. 1200

✗ 4. $1200\sqrt{10}$

Q.19 Who among the following is considered as the founder of Islam?

Ans ✔ 1. Prophet Muhammad

✗ 2. Prophet Noah

✗ 3. Prophet Yusuf

✗ 4. Prophet Abraham

Question ID : **7518974203**
Option 1 ID : **75189716811**
Option 2 ID : **75189716810**
Option 3 ID : **75189716809**
Option 4 ID : **75189716812**
Status : **Answered**
Chosen Option : **1**

Q.20 Which of the following elements is the most reactive?

Ans ✗ 1. Al

✗ 2. Pb

✗ 3. Mg

✔ 4. Ca

Question ID : **7518973433**
Option 1 ID : **75189713730**
Option 2 ID : **75189713729**
Option 3 ID : **75189713732**
Option 4 ID : **75189713731**
Status : **Answered**
Chosen Option : **4**

Q.21 Given below are three statements and three conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide whether the conclusion/s follow/s the given statements.

Statements:

I. All grasses are shrubs.

II. All roots are fruits.

III. All fruits are flowers.

Conclusions:

I. All grasses are flowers.

II. All roots are flowers.

III. Some flowers are fruits.

Ans ✗ 1. All the conclusions follow

✗ 2. Only conclusion I follows

✔ 3. Conclusions II and III follow

✗ 4. Only conclusion III follows

Question ID : **7518974935**
Option 1 ID : **75189719740**
Option 2 ID : **75189719737**
Option 3 ID : **75189719738**
Option 4 ID : **75189719739**
Status : **Answered**
Chosen Option : **3**

Q.22 Identify the correct chemical reaction involved in bleaching powder preparation

Ans

✗ 1. $2 \text{ NaCl (aq)} + 2 \text{ H}_2\text{O (l)} \rightarrow 2 \text{ NaOH (aq)} + \text{Cl}_2 \text{ (g)} + \text{H}_2 \text{ (g)}$

✗ 2. $\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2 + \text{NH}_3 \rightarrow \text{NH}_4\text{Cl} + \text{NaHCO}_3$

✔ 3. $\text{Ca(OH)}_2 + \text{Cl}_2 \rightarrow \text{CaOCl}_2 + \text{H}_2\text{O}$

✗ 4. $\text{NaHCO}_3 + \text{H}^+ \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{Sodium salt of acid}$

Question ID : 7518973649
Option 1 ID : 75189714596
Option 2 ID : 75189714594
Option 3 ID : 75189714593
Option 4 ID : 75189714595
Status : **Answered**
Chosen Option : **3**

Q.23 Janhvi starts walking from her home and goes 45 m towards the west. She then turns right and walks 32 m. Then, she turns right and walks 88 m. After that, she turns right and walks 50 m. Finally, she turns right again and walks 43 m. How far and in which direction is she now from her home? (All turns are 90 degree turns only)

Ans

✔ 1. 18 m, South

✗ 2. 16 m, South

✗ 3. 45 m, North

✗ 4. 18 m, North

Question ID : 7518975268
Option 1 ID : 75189721072
Option 2 ID : 75189721069
Option 3 ID : 75189721070
Option 4 ID : 75189721071
Status : **Answered**
Chosen Option : **1**

Q.24 How many languages are there in the 8th Schedule of the Indian Constitution as on June 2022?

Ans

✗ 1. 19

✔ 2. 22

✗ 3. 25

✗ 4. 15

Question ID : 7518974188
Option 1 ID : 75189716750
Option 2 ID : 75189716751
Option 3 ID : 75189716752
Option 4 ID : 75189716749
Status : **Answered**
Chosen Option : **2**

Q.25 Which of the following statements are correct?

(a) For a lens the first principal focus is the position of the object whose image is at infinity

(b) For a lens the first principal focus is the position of the object whose image is formed at twice the focal length.

(c) For a lens the second principal focus is the position of the real image whose object is at infinity

(d) For a lens the second principal focus is the position of the object whose image is formed at twice the focal length

Ans
- ✗ 1. Both (b) and (c)
- ✗ 2. Both (b) and (d)
- ✓ 3. Both (a) and (c)
- ✗ 4. Both (a) and (b)

Question ID : **7518975375**
Option 1 ID : **75189721498**
Option 2 ID : **75189721500**
Option 3 ID : **75189721499**
Option 4 ID : **75189721497**
Status : **Not Answered**
Chosen Option : **--**

Q.26 Two boxes have chocolates in the ratio 7 : 5. If the difference in the number of chocolates is 28, find the number of chocolates in the box with larger numbers.

Ans
- ✗ 1. 77
- ✗ 2. 84
- ✓ 3. 98
- ✗ 4. 91

Question ID : **7518975702**
Option 1 ID : **75189722808**
Option 2 ID : **75189722807**
Option 3 ID : **75189722805**
Option 4 ID : **75189722806**
Status : **Answered**
Chosen Option : **3**

Q.27 A statement is given followed by two assumptions numbered I and II. You have to assume everything in the statement to be true and decide which of the given assumptions is/are implicit in the statement.

Statement:

Essay writing is an art. It requires an understanding of the subject as well as a command over the language to be able to write a good essay.

Assumptions:

I. Essays cannot be written without complete mastery over the subject.

II. Anyone with a good command over the language can write a good essay.

Ans
- ✗ 1. Only assumption II is implicit
- ✗ 2. Both assumptions I and II are implicit
- ✓ 3. Neither assumption I nor II is implicit
- ✗ 4. Only assumption I is implicit

Question ID : **7518976410**
Option 1 ID : **75189725638**
Option 2 ID : **75189725640**
Option 3 ID : **75189725639**
Option 4 ID : **75189725637**
Status : **Answered**
Chosen Option : **1**

Q.28 If two parallel lines are intersected by a transversal, then which of the options below is not necessarily correct?

Ans

✗ 1. A pair of vertically opposite angles have the same measure.

✗ 2. A pair of alternate interior angles have the same measure.

✗ 3. A pair of corresponding angles have the same measure.

✔ 4.
A pair of interior angles on the same side of the transversal have the same measure.

Question ID : **7518975980**
Option 1 ID : **75189723920**
Option 2 ID : **75189723917**
Option 3 ID : **75189723919**
Option 4 ID : **75189723918**
Status : **Answered**
Chosen Option : **4**

Q.29 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)

(1, 8, 3)

(2, 21, 5)

Ans

✗ 1. (5, 112, 11)

✔ 2. (4, 33, 7)

✗ 3. (2, 26, 3)

✗ 4. (7, 128, 10)

Question ID : **7518974869**
Option 1 ID : **75189719476**
Option 2 ID : **75189719475**
Option 3 ID : **75189719474**
Option 4 ID : **75189719473**
Status : **Answered**
Chosen Option : **2**

Q.30 If a and b are the roots of $x^2 + x - 2 = 0$, then the quadratic equation in x whose roots are $\frac{1}{a} + \frac{1}{b}$ and ab is:

Ans

✗ 1. $2x^2 + 5x - 2 = 0$

✔ 2. $2x^2 + 3x - 2 = 0$

✗ 3. $2x^2 - 5x + 2 = 0$

✗ 4. $2x^2 - 3x + 2 = 0$

Question ID : **7518976353**
Option 1 ID : **75189725410**
Option 2 ID : **75189725412**
Option 3 ID : **75189725411**
Option 4 ID : **75189725409**
Status : **Answered**
Chosen Option : **4**

Q.31 A wire of a given material has length 'l' and resistance 'R'. Another wire of the same material having three times the length and twice the area of cross section will have a resistance equal to:

Ans

✗ 1. $\dfrac{2}{3}R$

✔ 2. $\dfrac{3}{2}R$

✗ 3. $3R$

✗ 4. $\dfrac{1}{2}R$

Question ID : **7518975470**
Option 1 ID : **75189721878**
Option 2 ID : **75189721877**
Option 3 ID : **75189721880**
Option 4 ID : **75189721879**
Status : **Answered**
Chosen Option : **2**

Q.32 Identify the long jumper of India who won a silver medal at the U-20 World Athletics Championships in the year 2021.

Ans

✗ 1. Seema Punia

✔ 2. Shaili Singh

✗ 3. Nayana James

✗ 4. Mercy Kuttan

Question ID : **7518976458**
Option 1 ID : **75189725832**
Option 2 ID : **75189725830**
Option 3 ID : **75189725831**
Option 4 ID : **75189725829**
Status : **Not Answered**
Chosen Option : **--**

Q.33 How and when is oxygen produced as a waste product in plants?

Ans

✗ 1. By respiration during the day

✗ 2. By photosynthesis during the night

✔ 3. By photosynthesis during the day

✗ 4. By respiration during the night

Question ID : **7518974555**
Option 1 ID : **75189718218**
Option 2 ID : **75189718219**
Option 3 ID : **75189718217**
Option 4 ID : **75189718220**
Status : **Answered**
Chosen Option : **3**

Q.34

In January 2022, Paytm Money launched India's first intelligent messenger called _____.

Ans

✗ 1. Cops

✗ 2. Pay Money

✗ 3. PayU

✓ 4. Pops

Question ID : **7518973863**
Option 1 ID : **75189715449**
Option 2 ID : **75189715451**
Option 3 ID : **75189715452**
Option 4 ID : **75189715450**
Status : **Answered**
Chosen Option : **3**

Q.35 A television costs ₹35,000 less than a printer. If the cost of the printer is twice the cost of the television, then the cost of the television is:

Ans

✗ 1. ₹53,000

✗ 2. ₹15,700

✗ 3. ₹17,500

✓ 4. ₹35,000

Question ID : **7518975921**
Option 1 ID : **75189723682**
Option 2 ID : **75189723684**
Option 3 ID : **75189723683**
Option 4 ID : **75189723681**
Status : **Answered**
Chosen Option : **4**

Q.36

The original Constitution of 1950 envisaged a Supreme Court with a Chief Justice and
_____ puisne Judges - leaving it to Parliament to increase this number.

Ans

✘ 1. 14

✘ 2. 17

✘ 3. 11

✔ 4. 7

Question ID : **7518973931**
Option 1 ID : **75189715723**
Option 2 ID : **75189715724**
Option 3 ID : **75189715721**
Option 4 ID : **75189715722**
Status : **Not Answered**
Chosen Option : --

Q.37 A group of class IX students conducted a survey for the number of family members in a household on 40 households in a locality, which resulted in the given frequency table. What is the mode of the data?

Family size	Number of families
2-4	10
4-6	8
6-8	12
8-10	6
10-12	4

Ans

✘ 1. 6.6

✘ 2. 6.7

✘ 3. 6.9

✔ 4. 6.8

Question ID : **7518976311**
Option 1 ID : **75189725242**
Option 2 ID : **75189725243**
Option 3 ID : **75189725244**
Option 4 ID : **75189725241**
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.38 According to the 'World Economic Outlook-April 2022' report, raised India's GDP growth estimate to 9% for 2022-23 and for 2023-24 it forecast the economy to grow by 7.1%.Who released this report?

Ans

✗ 1. World Bank

✓ 2. International Monetary Fund (IMF)

✗ 3. Ministry of Finance of India

✗ 4. Reserve Bank of India

Question ID : **7518973852**
Option 1 ID : **75189715405**
Option 2 ID : **75189715408**
Option 3 ID : **75189715406**
Option 4 ID : **75189715407**
Status : **Not Answered**
Chosen Option : **--**

Q.39 The value of $0.0486 \div 0.002 =$

Ans ✗ 1. 13.8

✓ 2. 24.3

✗ 3. 18.7

✗ 4. 21.5

Question ID : **7518975566**
Option 1 ID : **75189722262**
Option 2 ID : **75189722263**
Option 3 ID : **75189722261**
Option 4 ID : **75189722264**
Status : **Answered**
Chosen Option : **2**

Q.40 If x and y are the two digits of the number 115 xy such that this number is divisible by 90, then the value of x + y is:

Ans ✗ 1. 3

✓ 2. 2

✗ 3. 6

✗ 4. 5

Question ID : **7518976241**
Option 1 ID : **75189724962**
Option 2 ID : **75189724964**
Option 3 ID : **75189724961**
Option 4 ID : **75189724963**
Status : **Answered**
Chosen Option : **2**

Q.41 Which of the following is NOT included in the financial budget of India?

Ans
✗ 1. Revenue deficit

✗ 2. Fiscal deficit

✔ 3. Credit control

✗ 4. Primary deficit

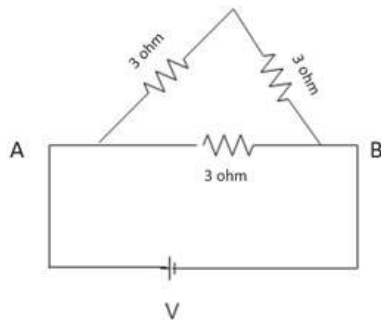**Q.42** My father is presently 25 years older than me. The sum of our ages 5 years ago was 39 years. Find my present age.

Ans
✗ 1. 15 years

✗ 2. 13 years

✔ 3. 12 years

✗ 4. 20 years

Q.43 The equivalent resistance between points A and B shown in the figure below:

Ans
✔ 1. $2\,\Omega$

✗ 2. $6\,\Omega$

✗ 3. $9\,\Omega$

✗ 4. $4.5\,\Omega$

Q.44 In how many states was the first round of Mission Indradhanush (IMI) 4.0 organised by the Union Ministry of Health and Family Welfare in February 2022, with an aim to increase full immunisation coverage?

Ans
✗ 1. 16
✓ 2. 11
✗ 3. 8
✗ 4. 14

Question ID : 7518973972
Option 1 ID : 75189715888
Option 2 ID : 75189715886
Option 3 ID : 75189715885
Option 4 ID : 75189715887
Status : **Not Answered**
Chosen Option : --

Q.45 Eight friends Kriti, Durga, Manasi, Surya, Tahira, Vritti, Ahana and Yoshita are sitting around an square table in such a way that four friends are sitting on the corners of the table while the other four are sitting at the exact centre of sides of the table. All are facing the centre of the table. Surya is sitting at the third place to right of Durga. Only Tahira is between Kriti and Durga. Manasi is second to left of Durga. Only Vritti is sitting between Surya and Yoshita. Yoshita is second to left of Ahana. Vritti is second to left of Manasi. Who is sitting third to left of Tahira?

Ans
✗ 1. Ahana
✗ 2. Yoshita
✗ 3. Surya
✓ 4. Manasi

Question ID : 7518975137
Option 1 ID : 75189720545
Option 2 ID : 75189720548
Option 3 ID : 75189720547
Option 4 ID : 75189720546
Status : **Answered**
Chosen Option : 4

Q.46 The simple interest on ₹1,280 at 5% p.a. for 3 years is:

Ans
✗ 1. ₹180
✓ 2. ₹192
✗ 3. ₹480
✗ 4. ₹195

Question ID : 7518975613
Option 1 ID : 75189722450
Option 2 ID : 75189722451
Option 3 ID : 75189722452
Option 4 ID : 75189722449
Status : **Answered**
Chosen Option : 2

Q.47 The table below shows the differences between the structure and function of plants and animals.

Which option shows the INCORRECT statement?

Sr. no.	Plants	Animals
a.	Do not move	Move in search of food, mate and shelter
b.	Most tissues are dead	Most tissues are living
c.	Need less energy	Need more energy
d.	Growth is limited to certain regions	Growth is limited to certain regions

Ans ✗ 1. a

✔ 2. d

✗ 3. c

✗ 4. b

Q.48 Three statements are followed by four conclusions numbered I, II, III and IV. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.

Statements:

1. All couriers are shipments.

2. All shipments are transports.

3. No haul is transport.

Conclusions:

I. No transport is shipment.

II. All couriers are transports.

III. Some transports are shipments.

IV. No courier is haul.

Ans ✔ 1. Only conclusions II, III and IV follow.

✗ 2. Only conclusions I and IV follow.

✗ 3. Only conclusions II and IV follow.

✗ 4. All conclusions follow.

Q.49 Study the following line graph carefully and answer the given question.

Number of bicycles sold (in thousand) by a company from the year 2012 to 2017

The number of bicycles sold in 2013 is approximately what percent of the number of bicycles sold in 2017?

Ans ✗ 1. 10%

✗ 2. 45%

✗ 3. 100%

✔ 4. 50%

Question ID : 7518975116
Option 1 ID : 75189720462
Option 2 ID : 75189720464
Option 3 ID : 75189720461
Option 4 ID : 75189720463
Status : Answered
Chosen Option : 4

Q.50 $2.666\ldots + 2.77\ldots$ in fraction form is:

Ans ✗ 1. $\dfrac{31}{9}$

✗ 2. $\dfrac{47}{9}$

✔ 3. $\dfrac{49}{9}$

✗ 4. $\dfrac{29}{9}$

Question ID : 7518975575
Option 1 ID : 75189722297
Option 2 ID : 75189722300
Option 3 ID : 75189722299
Option 4 ID : 75189722298
Status : Answered
Chosen Option : 3

Q.51 Match the following:

A	B
i. red cabbage leaves	a. olfactory indicator
ii. methyl orange	b. acid base indictor
iii. Onion, clove	c. natural acid base indictor

Ans
- ✗ 1. i-a, ii-c, iii-b
- ✗ 2. i-a, ii-b, iii-c
- ✔ 3. i-c, ii-b, iii-a
- ✗ 4. i-c, ii-a, iii-b

Q.52 In India, Mangrove Forests are majorly found in which of the following states?

Ans
- ✗ 1. Maharashtra
- ✗ 2. Telangana
- ✔ 3. West Bengal
- ✗ 4. Nagaland

Q.53 1 horsepower equals:

Ans
- ✗ 1. 746 J
- ✗ 2. 74.6 J/s
- ✓ 3. 746 W
- ✗ 4. 746 kW

Q.54 Six girls decided to record a video of their talks, one on each separate day of the same week. Sunday will be a rest day. P said Friday will suit her. U will start the process and record on Monday. S will record immediately before T. Q will record on a day exactly between the days of U and S. T selected Thursday. Which day is left for R to record the video?

Ans
- ✗ 1. Wednesday
- ✗ 2. Monday
- ✗ 3. Thursday
- ✓ 4. Saturday

Q.55 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, and decide which of the given conclusions logically follow/s from the given statements.

Statements:

All donkeys are zebras.

Some bulls are cats.

Some donkeys are apes.

Conclusions:

(I) Some zebras are bulls.

(II) Some zebras are apes.

(III) Some donkeys are cats.

Ans ✗ 1. Only conclusion III follows

✗ 2. Only conclusion I follows

✔ 3. Only conclusion II follows

✗ 4. None of the conclusions follow

Question ID : **7518974928**
Option 1 ID : **75189719711**
Option 2 ID : **75189719709**
Option 3 ID : **75189719710**
Option 4 ID : **75189719712**
Status : **Answered**
Chosen Option : **3**

Q.56 Which of the following is NOT a possible isomer of hexane?

Ans ✔ 1. 2-ethyl pentane

✗ 2. 3-methyl pentane

✗ 3. 2-methyl pentane

✗ 4. 2, 2 dimethyl butane

Question ID : **7518973381**
Option 1 ID : **75189713521**
Option 2 ID : **75189713523**
Option 3 ID : **75189713522**
Option 4 ID : **75189713524**
Status : **Answered**
Chosen Option : **1**

Q.57 The position of how many letters will remain unchanged if each of the letters in the word 'DIRECT' is arranged in alphabetical order?

Ans ✗ 1. Two

✔ 2. One

✗ 3. Three

✗ 4. None

Question ID : **7518975223**
Option 1 ID : **75189720891**
Option 2 ID : **75189720890**
Option 3 ID : **75189720892**
Option 4 ID : **75189720889**
Status : **Answered**
Chosen Option : **2**

Q.58 What was the achievement of Dobereiner's triads?

Ans ✗ 1. First attempt to study the size of atoms.

✔ 2.
First attempt to relate the properties of elements with atomic mass.

✗ 3. First attempt to study the colour of elements.

✗ 4. First attempt to study the atomicity of molecules.

Q.59 Under which five-year plan was Bharat Nirman started by the Government of India to upgrade rural infrastructure?

Ans ✗ 1. Sixth Five Year Plan

✗ 2. Eighth Five Year Plan

✗ 3. Ninth Five Year Plan

✔ 4. Tenth Five Year Plan

Q.60 Which Amendment of the Constitution of India envisages the Gram Sabha as the foundation of the Panchayat Raj System to perform functions and powers entrusted to it by the State Legislatures?

Ans ✗ 1. 71st

✗ 2. 63rd

✔ 3. 73rd

✗ 4. 54th

Q.61 A can count 100 eggs in 4 minutes while B can count the same number of eggs in 5 minutes. How much time will be required if they work together to count 450 eggs?

Ans

✘ 1. 5 min

✘ 2. 15 min

✘ 3. 20 min

✔ 4. 10 min

Question ID : **7518975881**
Option 1 ID : **75189723521**
Option 2 ID : **75189723523**
Option 3 ID : **75189723524**
Option 4 ID : **75189723522**
Status : **Answered**
Chosen Option : **4**

Q.62 According to the Economic Survey 2021-22, what is the rank of India (Globally) in average annual net gain in forest area?

Ans

✘ 1. 1st

✔ 2. 3rd

✘ 3. 4th

✘ 4. 2nd

Question ID : **7518973902**
Option 1 ID : **75189715605**
Option 2 ID : **75189715607**
Option 3 ID : **75189715608**
Option 4 ID : **75189715606**
Status : **Marked For Review**
Chosen Option : **2**

Q.63 This question is based on the five, three-digit numbers given below:
(Left) 158 438 182 325 230 (Right)
If 5 is added to the first digit of every number, in how many numbers will the first digit be exactly divisible by the second digit?

Ans

✔ 1. 2

✘ 2. 3

✘ 3. 1

✘ 4. 4

Question ID : **7518975019**
Option 1 ID : **75189720074**
Option 2 ID : **75189720075**
Option 3 ID : **75189720073**
Option 4 ID : **75189720076**
Status : **Answered**
Chosen Option : **3**

Q.64 In a clearance sale, a sari whose marked price was ₹10,490, is now sold for ₹9,441. What is the discount per cent on the sari?

Ans
✗ 1. 15%

✓ 2. 10%

✗ 3. 18%

✗ 4. 12%

Q.65 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 _ M _ Q _ V M W _ B V M W _ B V _ _ T

Ans
✓ 1. V W B R S M W

✗ 2. V W V R R M W

✗ 3. V W V R S M R

✗ 4. V W B V S W M

Q.66 Which of the following numbers will replace the question mark (?) in the given series?

5, 13, 23, 49, ? , 193

Ans
✗ 1. 105

✓ 2. 95

✗ 3. 120

✗ 4. 82

Q.67 P, Q, R, S, T, U and V live on seven 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 7. U lives on the top floor. Only two persons live between T and Q. Q is on floor number 3. V lives on the floor immediately above P's floor. S lives on the floor immediately above R's floor. Q lives on the floor immediately below R's floor. Who lives on floor number 6?

Ans ✔ 1. T

✖ 2. V

✖ 3. R

✖ 4. S

Question ID : **7518975153**
Option 1 ID : **75189720611**
Option 2 ID : **75189720612**
Option 3 ID : **75189720609**
Option 4 ID : **75189720610**
Status : **Answered**
Chosen Option : **1**

Q.68 An object is placed at the principal focus of a concave lens. Which of the following options represents the characteristics of the image formed?

Ans ✖ 1. Virtual and enlarged

✔ 2. Virtual and highly diminished

✖ 3. Real and enlarged

✖ 4. Real and diminished

Question ID : **7518975407**
Option 1 ID : **75189721627**
Option 2 ID : **75189721628**
Option 3 ID : **75189721625**
Option 4 ID : **75189721626**
Status : **Answered**
Chosen Option : **3**

Q.69 Pankaj Advani bagged his 41st title by defeating whom, to lift his 8th title at the Asian 100 UP Billiards Championship 2022?

Ans ✔ 1. Dhruv Sitwala

✖ 2. Manan Chandra

✖ 3. Aditya Mehta

✖ 4. Sourav Kothari

Question ID : **7518973951**
Option 1 ID : **75189715802**
Option 2 ID : **75189715804**
Option 3 ID : **75189715801**
Option 4 ID : **75189715803**
Status : **Answered**
Chosen Option : **1**

Q.70 The value of $\sqrt{\dfrac{1-\cos\theta}{1+\cos\theta}}$ is:

Ans ✖ 1. $\operatorname{cosec}\theta + \cot\theta$

✖ 2. $\sec\theta + \cot\theta$

✖ 3. $\sec\theta - \cot\theta$

✔ 4. $\operatorname{cosec}\theta - \cot\theta$

Question ID : **7518975999**
Option 1 ID : **75189723994**
Option 2 ID : **75189723996**
Option 3 ID : **75189723995**
Option 4 ID : **75189723993**
Status : **Answered**
Chosen Option : **4**

Q.71 Which of the following properties do covalent compounds generally NOT exhibit?

Ans ✔ 1. They are not soluble in an organic solvent.

✖ 2. They are bad conductors of electricity and heat.

✖ 3. They form by sharing of electrons.

✖ 4. They do not form ions generally.

Question ID : **7518973388**
Option 1 ID : **75189713549**
Option 2 ID : **75189713550**
Option 3 ID : **75189713551**
Option 4 ID : **75189713552**
Status : **Not Answered**
Chosen Option : **--**

Q.72 The graph and the table below show the units sold by two salesmen, Mr. P and Mr. Q, in 4 months from January to April. Study the graph and the table and answer the question.
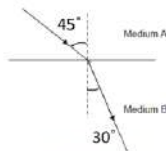
Monthwise Sales by Mr. P and Mr. Q

	January	February	March	April
P	80	30	50	90
Q	60	40	70	60
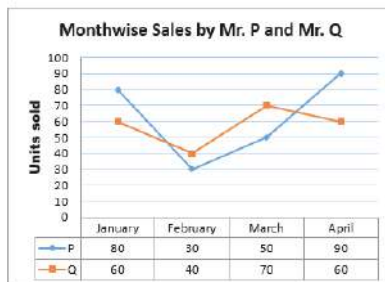
What is the respective ratio of the total units sold by Mr. P and Mr. Q during the 4 months?

Ans ✖ 1. $25 : 27$

✔ 2. $25 : 23$

✖ 3. $24 : 23$

✖ 4. $23 : 21$

Question ID : **7518975330**
Option 1 ID : **75189721318**
Option 2 ID : **75189721317**
Option 3 ID : **75189721319**
Option 4 ID : **75189721320**
Status : **Answered**
Chosen Option : **2**

Q.73 The path of a ray of light incident on an interface separating two media is shown in the figure below. The refractive index of medium A with respect to medium B is equal to:

Ans ✗ 1. $2\sqrt{2}$

✔ 2. $\sqrt{2}$

✗ 3. $\dfrac{1}{\sqrt{2}}$

✗ 4. $\dfrac{1}{2\sqrt{2}}$

Q.74 Some reasons highlighting the importance of delivering sex education in schools are mentioned below.

Choose the incorrect option.

Ans ✔ 1.

Knowing about their body changes, teenagers start making fun of each other

✗ 2. Helps to keep teenagers away from sexual abuse

✗ 3. Discouraging various myths and misconceptions

✗ 4. Knowledge about changes taking place during puberty

Q.75 Anita is standing facing the north direction. Then, she turns $135°$ anticlockwise. After that, she turns $90°$ clockwise. In which direction is she facing now?

Ans ✗ 1. North-east

✗ 2. South-west

✔ 3. North-west

✗ 4. South-east

Q.76 Which social reformer founded the 'Brahmo Samaj' in 1828 and became famous for his pioneering role in advocating education and opposing practices like Sati, child marriage and social division?

Ans

✗ 1. Swami Vivekananda

✗ 2. Swami Dayanand Saraswati

✓ 3. Raja Ram Mohan Roy

✗ 4. Ishwarchandra Vidyasagar

Question ID : **7518973996**
Option 1 ID : **75189715984**
Option 2 ID : **75189715981**
Option 3 ID : **75189715982**
Option 4 ID : **75189715983**
Status : **Answered**
Chosen Option : **2**

Q.77 The value of $5^3 \times 5^4 \times 5^2 = ?$

Ans

✓ 1. 5^9

✗ 2. 5^7

✗ 3. 5^6

✗ 4. 5^5

Question ID : **7518975794**
Option 1 ID : **75189723174**
Option 2 ID : **75189723175**
Option 3 ID : **75189723173**
Option 4 ID : **75189723176**
Status : **Answered**
Chosen Option : **1**

Q.78 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	5	6	8	3	%	#	7
Codes	U	S	C	K	D	T	A

Conditions:

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

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

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

Question: 5 # % 6 7 # 3 8

Ans ✗ 1. C A D S T T K U

✗ 2. U T D S A T K C

✗ 3. C T W W A T K U

✔ 4. C T D S A T K U

Q.79 A statement is given, followed by four conclusions given in the options. Find out which conclusion is true based on the given statement.

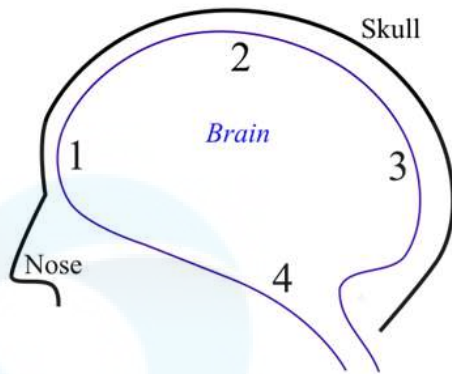Statement: $H = W > F \geq S \geq T > Y$

Ans ✗ 1. $H < F$

✔ 2. $Y < S$

✗ 3. $W < T$

✗ 4. $T \geq F$

Q.80 Which of the following numbers indicates the spinal cord's location in the human brain?

Ans
  ✗ 1. Number 1

  ✗ 2. Number 3

  ✗ 3. Number 2

  ✔ 4. Number 4

Q.81 If '+' means '−', '−' means '÷', '+' means '×' and '×' means '÷', what will come in place of the question mark (?) in the following equation?

$12 \div 6 + 28 - 7 \times 14 = ?$

Ans
  ✗ 1. 78

  ✗ 2. 80

  ✗ 3. 72

  ✔ 4. 82

Q.82 If '+' means '÷', '−' means '+', '×' means '−' and '÷' means '×', then what will be the value of the following expression?

$[\{(23 \times 15) - (1 \div 4)\} + (2 - 2)] \div 2$

Ans

✔ 1. 6

✘ 2. 8

✘ 3. 4

✘ 4. 10

Question ID : **7518975103**
Option 1 ID : **75189720410**
Option 2 ID : **75189720411**
Option 3 ID : **75189720409**
Option 4 ID : **75189720412**
Status : **Answered**
Chosen Option : **1**

Q.83 An AC generator works on the principle of:

Ans

✔ 1. electromagnetic induction

✘ 2. heating effect of electric current

✘ 3. force on a current carrying conductor

✘ 4. electromagnetism

Question ID : **7518975532**
Option 1 ID : **75189722125**
Option 2 ID : **75189722127**
Option 3 ID : **75189722126**
Option 4 ID : **75189722128**
Status : **Answered**
Chosen Option : **1**

Q.84

India launched a commemorative logo to mark her 30th anniversary of diplomatic ties with which of these countries?

Ans

✘ 1. Spain

✔ 2. Israel

✘ 3. America

✘ 4. Canada

Question ID : **7518973789**
Option 1 ID : **75189715155**
Option 2 ID : **75189715153**
Option 3 ID : **75189715156**
Option 4 ID : **75189715154**
Status : **Not Answered**
Chosen Option : **--**

Q.85 Among six persons, P, Q, R, S, T and U, each one has a different weight. The weight of Q is more than only two other persons. The weight of P is more than U's weight. The weight of S is more than Q's weight. The weight of R is less than the weight of T. The weight of Q is more than the weight of T. U has the second highest weight among all the six persons. Who has the third highest weight among all six persons?

Ans
✗ 1. R

✓ 2. S

✗ 3. T

✗ 4. P

Q.86 A truck travels at a speed of 60 km/h from city P to city Q and returns to city P by the same route at a speed of 100 km/h. What is the average speed of the truck for the given journey?

Ans
✗ 1. 80 km/h

✗ 2. 85 km/h

✗ 3. 70 km/h

✓ 4. 75 km/h

Q.87 In the given figure, AB ∥ QP, AB = x , PQ= $x + 10$, RB = $\frac{x}{2}$, BP = $x + 1$. Find PQ
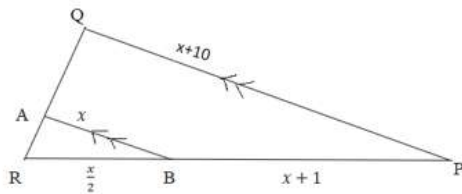
Ans
✗ 1. 13 units

✓ 2. 18 units

✗ 3. 12 units

✗ 4. 4 units

Q.88 Which of the following ministries introduced The Weapons of Mass Destruction and their Delivery Systems (Prohibition of Unlawful Activities) Amendment Bill, 2022, in the Lok Sabha on 5 April 2022?

Ans
- ✗ 1. Ministry of Law and Justice
- ✗ 2. Ministry of Home Affairs
- ✔ 3. Ministry of External Affairs
- ✗ 4. Ministry of Defence

Question ID : **7518976538**
Option 1 ID : **75189726149**
Option 2 ID : **75189726152**
Option 3 ID : **75189726150**
Option 4 ID : **75189726151**
Status : **Not Answered**
Chosen Option : **--**

Q.89 Which of the following uses spores to reproduce?

Ans
- ✗ 1. Mango
- ✔ 2. Ferns
- ✗ 3. Amoeba
- ✗ 4. Yeast

Question ID : **7518974453**
Option 1 ID : **75189717811**
Option 2 ID : **75189717812**
Option 3 ID : **75189717809**
Option 4 ID : **75189717810**
Status : **Answered**
Chosen Option : **2**

Q.90 Which of the following falls under Article 51A of the Indian Constitution?

Ans
- ✗ 1. Cultural and Education Rights
- ✗ 2. Promotion of International peace and security
- ✔ 3. Fundamental Duties
- ✗ 4. Fundamental rights

Question ID : **7518973921**
Option 1 ID : **75189715683**
Option 2 ID : **75189715684**
Option 3 ID : **75189715682**
Option 4 ID : **75189715681**
Status : **Answered**
Chosen Option : **3**

Q.91 Which of the following should be done to conserve coal and petroleum?

Ans ✗ 1.
Avoid substituting CFL bulbs for standard incandescent bulbs.

✗ 2. Solar cookers should be avoided at all costs.

✗ 3. Avoid using public transportation or joining a carpool.

✓ 4. Do not overuse air conditioning or heating systems.

Question ID : **7518974491**
Option 1 ID : **75189717964**
Option 2 ID : **75189717963**
Option 3 ID : **75189717961**
Option 4 ID : **75189717962**
Status : **Answered**
Chosen Option : **4**

Q.92 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.

BEING : YVRMT : : PRIDE : KIRWV : : CLEAN : ?

Ans ✗ 1. XPVRM

✓ 2. XOVZM

✗ 3. XOWZM

✗ 4. GOVZP

Question ID : **7518975273**
Option 1 ID : **75189721089**
Option 2 ID : **75189721091**
Option 3 ID : **75189721092**
Option 4 ID : **75189721090**
Status : **Answered**
Chosen Option : **2**

Q.93 How many times are the hour and the minute hands of a clock at a right angle in a period of two days?

Ans ✓ 1. 88

✗ 2. 48

✗ 3. 92

✗ 4. 77

Question ID : **7518976433**
Option 1 ID : **75189725730**
Option 2 ID : **75189725732**
Option 3 ID : **75189725731**
Option 4 ID : **75189725729**
Status : **Answered**
Chosen Option : **1**

Q.94 The area (in square units) of the quadrilateral ABCD, formed by the vertices A (0, −2), B (2, 1), C (0, 4), and D (−2, 1) is:

Ans ✗ 1. 15

✗ 2. 14

✗ 3. 13

✓ 4. 12

Question ID : **7518976360**
Option 1 ID : **75189725440**
Option 2 ID : **75189725439**
Option 3 ID : **75189725438**
Option 4 ID : **75189725437**
Status : **Answered**
Chosen Option : **3**

Q.95 A boy focusses a sharp image of a distant object on a screen using a lens. The distance between the lens and screen is approximately equal to:

Ans ✗ 1. 2f

✗ 2. f/2

✗ 3. f/3

✓ 4. f

Question ID : **7518975372**
Option 1 ID : **75189721488**
Option 2 ID : **75189721486**
Option 3 ID : **75189721487**
Option 4 ID : **75189721485**
Status : **Answered**
Chosen Option : **2**

Q.96 An item costs ₹2,000 less than ₹5,000. The dealer offers a discount of 10% and the retailer further offers a discount of 5% on its CP. The final SP for the customer is:

Ans ✗ 1. ₹2,878

✗ 2. ₹1,987

✓ 3. ₹2,565

✗ 4. ₹3,454

Question ID : **7518975642**
Option 1 ID : **75189722567**
Option 2 ID : **75189722568**
Option 3 ID : **75189722565**
Option 4 ID : **75189722566**
Status : **Answered**
Chosen Option : **3**

Q.97 In a certain code language, 'GLEPK' is written as 'DIBMH' and 'QRYHN' is written as 'NOVEK'. How will 'POTER' be written in that language?

Ans
- ✗ 1. LMPOB
- ✗ 2. MLPOB
- ✗ 3. LMQOB
- ✔ 4. MLQBO

Question ID : **7518974824**
Option 1 ID : **75189719293**
Option 2 ID : **75189719295**
Option 3 ID : **75189719294**
Option 4 ID : **75189719296**
Status : **Answered**
Chosen Option : **4**

Q.98 Consider the below statements and identify the correct answer.

Statement I: Dobereiner gave the law of triads.

Statement II: Dobereiner tried to arrange the elements with different properties into groups, having three elements each.

Ans
- ✗ 1. Only Statement II 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 I is Correct.

Question ID : **7518973702**
Option 1 ID : **75189714808**
Option 2 ID : **75189714806**
Option 3 ID : **75189714805**
Option 4 ID : **75189714807**
Status : **Answered**
Chosen Option : **3**

Q.99 A, B, C, D, E and F were six friends playing games around a circular table. They were standing facing the centre of the table. E was standing to the immediate left of A. C was second to the left of F. There were exactly two people between D and A. B was at the immediate right of A. Which friend was at the immediate right of F?

Ans
- ✗ 1. C
- ✗ 2. A
- ✗ 3. D
- ✔ 4. E

Question ID : **7518974895**
Option 1 ID : **75189719577**
Option 2 ID : **75189719578**
Option 3 ID : **75189719579**
Option 4 ID : **75189719580**
Status : **Answered**
Chosen Option : **4**

Q.100 Which of the following statements is/are correct?

    (i)   Magnetic field strength is strongest at the centre of a bar magnet.

    (ii)   No two magnetic field lines can intersect.

    (iii)   Magnetic field lines always form closed continuous curves.

Ans   ✔ 1. Both (ii) and (iii)

     ✘ 2. Both (i) and (ii)

     ✘ 3. Only (i)

     ✘ 4. Only (ii)

Question ID : **7518975515**
Option 1 ID : **75189722060**
Option 2 ID : **75189722059**
Option 3 ID : **75189722057**
Option 4 ID : **75189722058**
Status : **Answered**
Chosen Option : **1**

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