



RRB GROUP - D **SHIFT - 2** (13-09-2022)

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS
सी ई एन आर आर सी - ०१/२०१९ - CEN RRC - 01/2019



Test Date	13/09/2022
Test Time	12:45 PM - 2:15 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

In which country were the 22nd Commonwealth Games held?

- Ans
- 1. Australia
 - 2. Canada
 - 3. India
 - 4. England



Question ID : 7518977142
Option 1 ID : 75189728567
Option 2 ID : 75189728568
Option 3 ID : 75189728565
Option 4 ID : 75189728566
Status : Marked For Review
Chosen Option : 4

Q.2 Bhima River, which is a major tributary of the Krishna River, flows through:

- Ans
- 1. Rajasthan and Haryana
 - 2. Maharashtra and Karnataka
 - 3. Tamil Nadu and Karnataka
 - 4. Goa and Karnataka

Question ID : 75189710593
Option 1 ID : 75189742370
Option 2 ID : 75189742369
Option 3 ID : 75189742372
Option 4 ID : 75189742371
Status : Marked For Review
Chosen Option : 2

Q.3 The length of each of the two equal sides of an isosceles triangle is 5 cm each and the length of its base is 8 cm. The area (in cm^2) of the triangle is:

- Ans**
- 1. 18
 - 2. 15
 - 3. 9
 - 4. 12

Question ID : 75189710016
Option 1 ID : 75189740064
Option 2 ID : 75189740063
Option 3 ID : 75189740061
Option 4 ID : 75189740062
Status : Answered
Chosen Option : 4

Q.4 The simple interest on a principal amount is ₹192 for a period of 2 years at the rate of 8% per annum. The principal amount is:

- Ans**
- 1. ₹1,600
 - 2. ₹1,000
 - 3. ₹1,400
 - 4. ₹1,200

Question ID : 7518979935
Option 1 ID : 75189739740
Option 2 ID : 75189739737
Option 3 ID : 75189739739
Option 4 ID : 75189739738
Status : Answered
Chosen Option : 4

Q.5 What is the effect of bile salts in the digestion of food?

- Ans**
- 1. They break up big fat globules into small globules.
 - 2. They activate lipases to begin digestion of proteins.
 - 3. They contains fat-digestive enzymes called lipases.
 - 4. They digest fat globules to release fatty acids.

Question ID : 75189710084
Option 1 ID : 75189740334
Option 2 ID : 75189740335
Option 3 ID : 75189740336
Option 4 ID : 75189740333
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.6 Which of the following elements have similar properties with Eka-silicon, Eka-boron and Eka-aluminium, respectively?

- Ans**
- 1. Carbon, Scandium, and Indium
 - 2. Germanium, Scandium, and Gallium
 - 3. Scandium, Gallium, and Germanium
 - 4. Germanium, Carbon, and Gallium

Question ID : 75189710387

Option 1 ID : 75189741546

Option 2 ID : 75189741547

Option 3 ID : 75189741548

Option 4 ID : 75189741545

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.7 Hindi continues to be the most widely spoken language in India at _____ of the population, and continues to grow at a rapid pace, mostly driven by higher population growth in Hindi speaking states as per census 2011.

- Ans**
- 1. 42.03%
 - 2. 41.03%
 - 3. 44.04%
 - 4. 43.63%

Question ID : 75189710442

Option 1 ID : 75189741768

Option 2 ID : 75189741767

Option 3 ID : 75189741765

Option 4 ID : 75189741766

Status : **Answered**

Chosen Option : 4

Q.8 A point on the principal axis of a concave mirror, from where a ray of light reflects back without any deviation, is:

- Ans**
- 1. infinity
 - 2. principal focus
 - 3. centre of curvature
 - 4. pole

Question ID : 7518979466

Option 1 ID : 75189737864

Option 2 ID : 75189737862

Option 3 ID : 75189737863

Option 4 ID : 75189737861

Status : **Marked For Review**

Chosen Option : 3

Q.9 Which of the following describes the nature of the roots of the quadratic equation $4x^2 - 7\sqrt{3}x + 12 = 0$?

- Ans
- 1. Two equal roots
 - 2. One real root and one imaginary root
 - 3. Two distinct real roots
 - 4. No real roots

Question ID : 7518978773

Option 1 ID : 75189735090

Option 2 ID : 75189735092

Option 3 ID : 75189735091

Option 4 ID : 75189735089

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.10 One-third of a journey is covered at a speed of 25 km/h, the next one-third of the journey is covered at a speed of 40 km/h and the remaining journey is covered at a speed of 50 km/h. The average speed (in km/h, rounded off to 1 decimal place) for the entire journey is:

- Ans
- 1. 30.3
 - 2. 33.3
 - 3. 25.3
 - 4. 35.3

Question ID : 7518979969

Option 1 ID : 75189739874

Option 2 ID : 75189739875

Option 3 ID : 75189739873

Option 4 ID : 75189739876

Status : **Answered**

Chosen Option : 4

Q.11 The first Fullerene to be identified was _____.

- Ans
- 1. C-60
 - 2. C-600
 - 3. C-660
 - 4. C-160

Question ID : 75189710308

Option 1 ID : 75189741229

Option 2 ID : 75189741231

Option 3 ID : 75189741232

Option 4 ID : 75189741230

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.12 The sum of two numbers is 9 and the sum of their squares are 41. The numbers are:

- Ans
- ✓ 1. 5, 4
 - ✗ 2. 6, 3
 - ✗ 3. 7, 2
 - ✗ 4. 1, 8

Question ID : 7518978758
Option 1 ID : 75189735031
Option 2 ID : 75189735030
Option 3 ID : 75189735029
Option 4 ID : 75189735032
Status : Answered
Chosen Option : 1

Q.13 As of March 2022, how many High Courts are there in India?

- Ans
- ✗ 1. 23
 - ✗ 2. 22
 - ✓ 3. 25
 - ✗ 4. 24

Question ID : 75189710605
Option 1 ID : 75189742418
Option 2 ID : 75189742417
Option 3 ID : 75189742420
Option 4 ID : 75189742419
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.14 Which of the following numbers will replace the question mark (?) in the given series?

105, 107, 103, ?, 101, 111

- Ans
- ✓ 1. 109
 - ✗ 2. 108
 - ✗ 3. 97
 - ✗ 4. 95

Question ID : 75189710910
Option 1 ID : 75189743638
Option 2 ID : 75189743637
Option 3 ID : 75189743639
Option 4 ID : 75189743640
Status : Answered
Chosen Option : 1

Q.15 Each of the digits in the number 8759236 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. Two
 - 2. Four
 - 3. One
 - 4. Three

Question ID : 7518979884
Option 1 ID : 75189739534
Option 2 ID : 75189739536
Option 3 ID : 75189739533
Option 4 ID : 75189739535
Status : Answered
Chosen Option : 4

Q.16 A statement is given below, followed by four conclusions given in the options. Find out which conclusion is true based on the given statement.

Statement: $X \leq F \leq U \geq A < Z > J$

- Ans**
- 1. $F \leq U \geq A$
 - 2. $U \geq A \geq F$
 - 3. $U > Z > J$
 - 4. $A < Z < X$

Question ID : 7518978220
Option 1 ID : 75189732879
Option 2 ID : 75189732877
Option 3 ID : 75189732878
Option 4 ID : 75189732880
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.17 Father's age is three times the sum of ages of his two children. After 6 years, his age will be twice the sum of the ages of both the children. The age of the father is:

- Ans**
- 1. 50 years
 - 2. 36 years
 - 3. 52 years
 - 4. 54 years

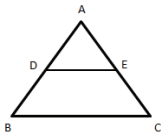
Question ID : 7518979296
Option 1 ID : 75189737183
Option 2 ID : 75189737184
Option 3 ID : 75189737181
Option 4 ID : 75189737182
Status : Answered
Chosen Option : 4

Q.18 What is an aquifer?

- Ans
- 1. Pockets of freshwater trapped in sandy beds in a desert
 - 2. Sheets of frozen water found in rocky caves at high altitudes
 - 3. Water that flows through natural channels in an estuary
 - 4. Water stored underground between layers of hard rock

Question ID : 75189710123
Option 1 ID : 75189740491
Option 2 ID : 75189740492
Option 3 ID : 75189740490
Option 4 ID : 75189740489
Status : Answered
Chosen Option : 1

Q.19 In the given figure, in $\triangle ABC$, $DE \parallel BC$, $AD = 7$ cm, $AE = 3.5$ cm and $DB = 6$ cm. What is the value of AC ? [Note: Diagram is not drawn to scale or measurements indicated.]



- Ans
- 1. 4.5 cm
 - 2. 4 cm
 - 3. 3 cm
 - 4. 6.5 cm

Question ID : 7518979113
Option 1 ID : 75189736450
Option 2 ID : 75189736452
Option 3 ID : 75189736449
Option 4 ID : 75189736451
Status : Answered
Chosen Option : 4

Q.20 Three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

1. All jugs are cups.
2. All cups are espressos.
3. Some jugs are saucers.

Conclusions:

- I. Some espressos are saucers.
- II. Some cups are jugs.

- Ans**
- 1. Only conclusion II follows
 - 2. Only conclusion I follows
 - 3. Both conclusions I and II follow
 - 4. Either conclusion I or II follow

Question ID : 75189710782
Option 1 ID : 75189743126
Option 2 ID : 75189743125
Option 3 ID : 75189743128
Option 4 ID : 75189743127
Status : Answered
Chosen Option : 1

Q.21 The budget expenditure of the government is broadly classified into how many categories?

- Ans**
- 1. 5
 - 2. 3
 - 3. 2
 - 4. 4

Question ID : 7518974038
Option 1 ID : 75189716152
Option 2 ID : 75189716150
Option 3 ID : 75189716149
Option 4 ID : 75189716151
Status : Marked For Review
Chosen Option : 2

Q.22 If the cost price of 24 pencils is equal to the selling price of 16 pencils, then the gain percentage is _____.

- Ans**
- 1. 38%
 - 2. 42%
 - 3. 25%
 - 4. 50%

Question ID : 75189710659
Option 1 ID : 75189742636
Option 2 ID : 75189742635
Option 3 ID : 75189742633
Option 4 ID : 75189742634
Status : Answered
Chosen Option : 4

Q.23 Which of the following is the highest layer of atmosphere?

- Ans
- 1. Mesosphere
 - 2. Stratosphere
 - 3. Exosphere
 - 4. Thermosphere

Question ID : 7518977250
Option 1 ID : 75189728997
Option 2 ID : 75189728999
Option 3 ID : 75189729000
Option 4 ID : 75189728998
Status : Answered
Chosen Option : 3

Q.24 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

NE - MF - LG
LS - KT - JU

- Ans
- 1. AV - ZW - YX
 - 2. ET - FS - GR
 - 3. BD - ZE - YF
 - 4. RG - SH - TI

Question ID : 75189710906
Option 1 ID : 75189743622
Option 2 ID : 75189743621
Option 3 ID : 75189743623
Option 4 ID : 75189743624
Status : Answered
Chosen Option : 1

Q.25 Which of the following festivals is mainly celebrated in Vadakkunnathan temple of Kerala?

- Ans
- 1. Thiruvathira
 - 2. Bastar Dussehra
 - 3. Kullu Dussehra
 - 4. Thrissur Pooram

Question ID : 75189710542
Option 1 ID : 75189742166
Option 2 ID : 75189742165
Option 3 ID : 75189742168
Option 4 ID : 75189742167
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.26 Raveena travels 5 km towards South from her house. From there, she goes 7 km towards East, then 4 km towards South, then 7 km towards West and then finally 5 km towards South. How far is Raveena from her house and in which direction?

- Ans**
- 1. 14 km, North
 - 2. 5 km, South
 - 3. 9 km, North
 - 4. 14 km, South

Question ID : 75189710898
Option 1 ID : 75189743589
Option 2 ID : 75189743592
Option 3 ID : 75189743590
Option 4 ID : 75189743591
Status : Answered
Chosen Option : 4

Q.27 At 6:00 a.m., a wrist watch's hour hand is showing north-west, which direction will hour hand show at 9:00 p.m.?

- Ans**
- 1. South
 - 2. South-West
 - 3. North-West
 - 4. North-East

Question ID : 7518979764
Option 1 ID : 75189739054
Option 2 ID : 75189739055
Option 3 ID : 75189739053
Option 4 ID : 75189739056
Status : Answered
Chosen Option : 4

Q.28 The sum of five consecutive even numbers is 2720. The sum of the third and fifth numbers is:

- Ans**
- 1. 1292
 - 2. 1392
 - 3. 1192
 - 4. 1092

Question ID : 7518978745
Option 1 ID : 75189734978
Option 2 ID : 75189734977
Option 3 ID : 75189734979
Option 4 ID : 75189734980
Status : Answered
Chosen Option : 4

Q.29 Petroleum is called _____.

Ans 1.

a non-renewable resource since conditions that produced it no longer exist

2. a renewable resource since it is derived from dead plants

3.
a non-renewable resource since it cannot be made in a factory

4.
a renewable resource since a single oil well gives oil everyday

Question ID : 75189710137
Option 1 ID : 75189740548
Option 2 ID : 75189740545
Option 3 ID : 75189740546
Option 4 ID : 75189740547
Status : Answered
Chosen Option : 3

Q.30 What is the value of $5^5 \times (125)^{-\frac{2}{3}} \times (25)^{-\frac{1}{2}}$?

Ans 1. $\frac{1}{25}$

2. 25

3. 5

4. $\frac{1}{5}$

Question ID : 7518979100
Option 1 ID : 75189736398
Option 2 ID : 75189736400
Option 3 ID : 75189736397
Option 4 ID : 75189736399
Status : Answered
Chosen Option : 2

Q.31 A man sells a cupboard at a certain price S, 20% of which is his profit. If the price at which he buys the cupboard increases by 10% and he sells it at a 4% higher price than S, then his profit percentage will be:

Ans 1. 18.18%

2. 22.7%

3. 23.4%

4. 21.8%

Question ID : 7518979248
Option 1 ID : 75189736989
Option 2 ID : 75189736991
Option 3 ID : 75189736992
Option 4 ID : 75189736990
Status : Answered
Chosen Option : 1

Q.32 P, Q, R, S, T, U and V live on different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 7. U lives on the floor immediately above V. T lives immediately above P and immediately below R. S does not live on any floor immediately above U or above R. P lives on third floor which is immediately above Q. Who lives on the first floor?

- Ans**
- 1. Q
 - 2. S
 - 3. R
 - 4. T

Question ID : 75189710757
Option 1 ID : 75189743026
Option 2 ID : 75189743027
Option 3 ID : 75189743028
Option 4 ID : 75189743025
Status : Answered
Chosen Option : 2

Q.33 A real image of equal size is obtained at a distance of 48 cm from the lens. The type of the lens and its focal length is:

- Ans**
- 1. convex lens of focal length 48 cm
 - 2. concave lens of focal length of 48 cm
 - 3. convex lens of focal length 24 cm
 - 4. concave lens of focal length 24 cm

Question ID : 7518979512
Option 1 ID : 75189738047
Option 2 ID : 75189738045
Option 3 ID : 75189738046
Option 4 ID : 75189738048
Status : Answered
Chosen Option : 1

Q.34 $(34)^3$ is equal to:

- Ans**
- 1. 39204
 - 2. 39304
 - 3. 40304
 - 4. 29304

Question ID : 7518979279
Option 1 ID : 75189737114
Option 2 ID : 75189737115
Option 3 ID : 75189737116
Option 4 ID : 75189737113
Status : Answered
Chosen Option : 2

Q.35 Marginal cost of production refers to the change in total cost to produce _____ additional unit(s).

- Ans**
- 1. 3
 - 2. 2
 - 3. 4
 - 4. 1

Question ID : 7518977513
Option 1 ID : 75189730051
Option 2 ID : 75189730050
Option 3 ID : 75189730052
Option 4 ID : 75189730049
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.36 During which of the following years the first Five Year Plan was implemented?

- Ans**
- 1. 1954-1959
 - 2. 1947-1952
 - 3. 1951-1956
 - 4. 1961-1966

Question ID : 75189710580
Option 1 ID : 75189742318
Option 2 ID : 75189742317
Option 3 ID : 75189742319
Option 4 ID : 75189742320
Status : **Answered**
Chosen Option : 3

Q.37 How many children received the Pradhan Mantri Rashtriya Bal Puraskar 2022 award from PM Narendra Modi on National girl child day?

- Ans**
- 1. 29
 - 2. 39
 - 3. 9
 - 4. 19

Question ID : 7518973785
Option 1 ID : 75189715139
Option 2 ID : 75189715140
Option 3 ID : 75189715137
Option 4 ID : 75189715138
Status : **Marked For Review**
Chosen Option : 1

Q.38 Simplify $\frac{12^3 \times 6^2 \times 8}{4^5 \times 3^5}$.

- Ans
- 1. 2
 - 2. 4
 - 3. 1
 - 4. 8

Question ID : 7518979099
Option 1 ID : 75189736393
Option 2 ID : 75189736394
Option 3 ID : 75189736396
Option 4 ID : 75189736395
Status : Answered
Chosen Option : 1

Q.39 Rigveda consists of a collection of:

- Ans
- 1. 3028 hymns
 - 2. 2028 hymns
 - 3. 4028 hymns
 - 4. 1028 hymns

Question ID : 75189710564
Option 1 ID : 75189742255
Option 2 ID : 75189742254
Option 3 ID : 75189742256
Option 4 ID : 75189742253
Status : Marked For Review
Chosen Option : 4

Q.40 If '+' means '×', '×' means '+', '+' means '÷', and '÷' means '+', then what will be the value of the given expression?

$$79 - 87 + 5 + 48 \times 3$$

- Ans
- 1. 656
 - 2. 498
 - 3. 512
 - 4. 452

Question ID : 7518979791
Option 1 ID : 75189739163
Option 2 ID : 75189739162
Option 3 ID : 75189739161
Option 4 ID : 75189739164
Status : Answered
Chosen Option : 2

Q.41 Which of the following metals is able to liberate hydrogen gas from dilute hydrochloric acid?

- Ans
- 1. Ag
 - 2. Cu
 - 3. Hg
 - 4. Pb

Question ID : 7518979666
Option 1 ID : 75189738664
Option 2 ID : 75189738661
Option 3 ID : 75189738663
Option 4 ID : 75189738662
Status : Answered
Chosen Option : 1

Q.42 If a person covers 10.5 km in 2 hours, then the distance covered by him at the same speed in 5 hours will be:

- Ans
- 1. 26.20 km
 - 2. 26.25 km
 - 3. 25.50 km
 - 4. 25.75 km

Question ID : 7518979258
Option 1 ID : 75189737031
Option 2 ID : 75189737030
Option 3 ID : 75189737029
Option 4 ID : 75189737032
Status : Answered
Chosen Option : 2

Q.43 Who is the captain of the Indian women's cricket team for the commonwealth game 2022?

- Ans
- 1. Mithali Raj
 - 2. Shafali Verma
 - 3. Harmanpreet Kaur
 - 4. Jhula Goswami

Question ID : 7518976791
Option 1 ID : 75189727161
Option 2 ID : 75189727164
Option 3 ID : 75189727162
Option 4 ID : 75189727163
Status : Answered
Chosen Option : 3

Q.44 Refer to the following letter, number and symbol series and answer the question.

(Left) H T & Q % 9 D 6 @ 6 L & 4 P Z # 5 7 U * Y (Right)

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

- Ans
- 1. Four
 - 2. Three
 - 3. Two
 - 4. One

Question ID : 75189710842
Option 1 ID : 75189743368
Option 2 ID : 75189743367
Option 3 ID : 75189743366
Option 4 ID : 75189743365
Status : Answered
Chosen Option : 2

Q.45 A, B, C, D, E, F, G and H are sitting around a square table facing the centre of the table (but not necessarily in the same order). Four of them are sitting at the corners while four of them are sitting at the exact centre of the sides. A is on the immediate right of H who is sitting at the exact center of one of the sides of the table. D is an immediate neighbour of A. B is sitting on the immediate right of D. F is the immediate neighbor of B and C. E is sitting to the immediate left of G. Who is sitting to the immediate left of H?

- Ans
- 1. G
 - 2. D
 - 3. F
 - 4. E

Question ID : 75189710734
Option 1 ID : 75189742935
Option 2 ID : 75189742936
Option 3 ID : 75189742933
Option 4 ID : 75189742934
Status : Answered
Chosen Option : 1

Q.46 The sum of the ages of a man and his son is 68 years. After 5 years, the age of man will be five times the age of his son. The present age of the son is:

- Ans
- 1. 9 years
 - 2. 7 years
 - 3. 8 years
 - 4. 10 years

Question ID : 7518978747
Option 1 ID : 75189734986
Option 2 ID : 75189734988
Option 3 ID : 75189734987
Option 4 ID : 75189734985
Status : Answered
Chosen Option : 3

Q.47 Which country was ranked 101st in the Global Hunger Index 2021?

- Ans
- 1. Sri Lanka
 - 2. Nepal
 - 3. India
 - 4. Bangladesh

Question ID : 7518976481
Option 1 ID : 75189725921
Option 2 ID : 75189725923
Option 3 ID : 75189725922
Option 4 ID : 75189725924
Status : Answered
Chosen Option : 3

Q.48 In a certain code language, 'POWER' is written as 'RRAJX' and 'HELLO' is written as 'JHPQU'. How will 'NEVER' be written in that language?

- Ans
- 1. PHZXJ
 - 2. PHJZX
 - 3. PHZJZ
 - 4. PHZJX

Question ID : 7518978277
Option 1 ID : 75189733105
Option 2 ID : 75189733108
Option 3 ID : 75189733107
Option 4 ID : 75189733106
Status : Answered
Chosen Option : 4

Q.49 Which of the following fundamental rights is mentioned in Article 32 of the Indian Constitution?

- Ans
- 1. Right to Freedom
 - 2. Right to Constitutional Remedies
 - 3. Right to Property
 - 4. Right to Equality

Question ID : 7518977556
Option 1 ID : 75189730222
Option 2 ID : 75189730224
Option 3 ID : 75189730223
Option 4 ID : 75189730221
Status : Answered
Chosen Option : 2

Q.50 The first Indian Reserve Forest is _____.

- Ans
- 1. Jim Corbett National Park
 - 2. Pench National Park
 - 3. Satpura National Park
 - 4. Kaziranga National Park

Question ID : 7518974489
Option 1 ID : 75189717955
Option 2 ID : 75189717953
Option 3 ID : 75189717956
Option 4 ID : 75189717954
Status : Answered
Chosen Option : 1

Q.51 Three resistors of $4\ \Omega$, $8\ \Omega$ and $6\ \Omega$ are connected in parallel combination with a $9\ \text{V}$ battery. The total current drawn from the battery is:

- Ans
- 1. $4.8\ \text{A}$
 - 2. $4.2\ \text{A}$
 - 3. $8.4\ \text{A}$
 - 4. $6.4\ \text{A}$

Question ID : 7518979561
Option 1 ID : 75189738242
Option 2 ID : 75189738241
Option 3 ID : 75189738244
Option 4 ID : 75189738243
Status : Not Answered
Chosen Option : --

Q.52 A $5\ \text{cm}$ long pin is placed $50\ \text{cm}$ far from a concave mirror of focal length $40\ \text{cm}$. Its image will be formed at _____.

- Ans
- 1. $2\ \text{m}$ behind the mirror
 - 2. $1\ \text{m}$ behind the mirror
 - 3. $2\ \text{m}$ in front of the mirror
 - 4. $1\ \text{m}$ in front of the mirror

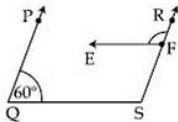
Question ID : 7518979493
Option 1 ID : 75189737972
Option 2 ID : 75189737969
Option 3 ID : 75189737970
Option 4 ID : 75189737971
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.53 Which of the following numbers will replace the question mark (?) in the given series?
15, 26, 48, 81, 125, ?

- Ans
- 1. 182
 - 2. 180
 - 3. 170
 - 4. 169

Question ID : 75189710921
Option 1 ID : 75189743684
Option 2 ID : 75189743682
Option 3 ID : 75189743683
Option 4 ID : 75189743681
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.54 In the given figure, $QS \parallel EF$ and $RS \parallel PQ$. If $m\angle PQS = 60^\circ$, then $m\angle RFE = ?$



- Ans
- 1. 120°
 - 2. 130°
 - 3. 110°
 - 4. 140°

Question ID : 7518979108
Option 1 ID : 75189736430
Option 2 ID : 75189736432
Option 3 ID : 75189736431
Option 4 ID : 75189736429
Status : Answered
Chosen Option : 1

Q.55 In general, the oxides of non-metals are _____ in nature.

- Ans
- 1. neutral
 - 2. basic
 - 3. acidic
 - 4. amphoteric

Question ID : 7518979703
Option 1 ID : 75189738809
Option 2 ID : 75189738810
Option 3 ID : 75189738811
Option 4 ID : 75189738812
Status : Marked For Review
Chosen Option : 2

Q.56 A ray of light undergoes refraction through a triangular glass prism. The angle between the incident ray and emergent ray is called:

- Ans**
- 1. angle of incidence
 - 2. angle of emergence
 - 3. angle of refraction
 - 4. angle of deviation

Question ID : 7518975425
Option 1 ID : 75189721697
Option 2 ID : 75189721698
Option 3 ID : 75189721700
Option 4 ID : 75189721699
Status : Answered
Chosen Option : 4

Q.57 Which of the following balanced equations is correct for the given reaction?

Calcium chloride + Sulphuric acid \rightarrow Calcium sulphate + Hydrogen chloride

- Ans**
- 1. $2\text{CaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow 2\text{CaSO}_4 + 2\text{HCl}$
 - 2. $\text{CaCl}_2 + 2\text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + 2\text{HCl}$
 - 3. $\text{CaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + \text{HCl}$
 - 4. $\text{CaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + 2\text{HCl}$

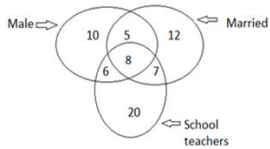
Question ID : 75189710330
Option 1 ID : 75189741320
Option 2 ID : 75189741319
Option 3 ID : 75189741317
Option 4 ID : 75189741318
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.58 The sides of a rectangle are in the ratio 8 : 10 and its perimeter is 90 cm. The area of this rectangle is:

- Ans**
- 1. 450 cm^2
 - 2. 550 cm^2
 - 3. 500 cm^2
 - 4. 520 cm^2

Question ID : 7518979321
Option 1 ID : 75189737283
Option 2 ID : 75189737281
Option 3 ID : 75189737284
Option 4 ID : 75189737282
Status : Answered
Chosen Option : 3

Q.59 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons.

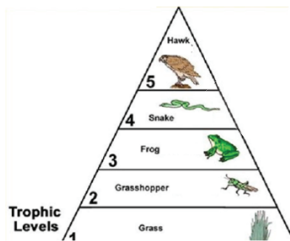


How many married males are school teachers?

- Ans**
- 1. 13
 - 2. 8
 - 3. 14
 - 4. 15

Question ID : 75189710786
 Option 1 ID : 75189743141
 Option 2 ID : 75189743144
 Option 3 ID : 75189743142
 Option 4 ID : 75189743143
 Status : Answered
 Chosen Option : 2

Q.60 A simple food chain of 5 trophic levels is shown below. If the snake which is present in the fourth trophic level gets 10 kJ of energy, then what amount of energy is available at the producers?



- Ans**
- 1. 100 kJ
 - 2. 1,00,00,000 kJ
 - 3. 1,000 kJ
 - 4. 10,000 kJ

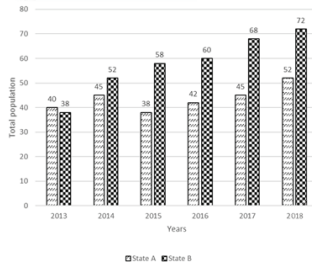
Question ID : 7518974660
 Option 1 ID : 75189718637
 Option 2 ID : 75189718640
 Option 3 ID : 75189718639
 Option 4 ID : 75189718638
 Status : Answered
 Chosen Option : 4

Q.61 Six boxes, J, K, L, M, N and O, are kept one over the other, but not necessarily in the same order. J is kept immediately above N. Only one box is kept between K and O. O is the bottom-most box, and M is the top-most box. Which box is kept immediately below M?

- Ans**
- 1. N
 - 2. J
 - 3. L
 - 4. K

Question ID : 75189710763
 Option 1 ID : 75189743052
 Option 2 ID : 75189743050
 Option 3 ID : 75189743051
 Option 4 ID : 75189743049
 Status : Answered
 Chosen Option : 2

Q.62 The column graph given below shows the population of two states (in lakhs) over the years. Study the graph and answer the question.



What is the difference in the population of state A and B together in years 2013 and 2018?

- Ans**
- 1. 22.0 lakhs
 - 2. 28 lakhs
 - 3. 27 lakhs
 - 4. 46 lakhs

Question ID : 75189710965
 Option 1 ID : 75189743860
 Option 2 ID : 75189743859
 Option 3 ID : 75189743858
 Option 4 ID : 75189743857
 Status : Answered
 Chosen Option : 1

Q.63 Refer to the following letter arrangement and answer the question that follows.

A W S X Z E C D R V F T B H N M H Y J K I O L

How many letters are there in the given series between the letter that is third from the left end and second vowel from the right end of the given series?

- Ans**
- 1. 16
 - 2. 17
 - 3. 19
 - 4. 15

Question ID : 7518978992
 Option 1 ID : 75189735966
 Option 2 ID : 75189735967
 Option 3 ID : 75189735968
 Option 4 ID : 75189735965
 Status : Not Answered

Q.64 The HCF and the LCM of two numbers are 1080 and 30240, respectively. If one of the numbers is 4320, then the other number is _____.

- Ans**
- 1. 30240
 - 2. 8640
 - 3. 1080
 - 4. 7560

Question ID : 75189710635
Option 1 ID : 75189742540
Option 2 ID : 75189742538
Option 3 ID : 75189742537
Option 4 ID : 75189742539
Status : Answered
Chosen Option : 4

Q.65 The magnitudes of the magnetic field at a point at distance r from a straight conductor carrying current I , $2I$ and $3I$, one by one, are B_1 , B_2 and B_3 , respectively. Which of the following relations is correct?

- Ans**
- 1. $B_2 > B_3 > B_1$
 - 2. $B_3 > B_2 > B_1$
 - 3. $B_1 > B_2 > B_3$
 - 4. $B_1 = B_2 = B_3$

Question ID : 7518976738
Option 1 ID : 75189726950
Option 2 ID : 75189726951
Option 3 ID : 75189726949
Option 4 ID : 75189726952
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.66 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and also '*' and '+' are interchanged?

$$17 - 3 + 2 + 12 \times 4 = ?$$

- Ans**
- 1. 20
 - 2. 21
 - 3. 22
 - 4. 24

Question ID : 75189710953
Option 1 ID : 75189743809
Option 2 ID : 75189743810
Option 3 ID : 75189743811
Option 4 ID : 75189743812
Status : Answered
Chosen Option : 1

Q.67 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.

A _DF _AC _FB _CDF _ACD _D

- Ans**
- 1. CDFCCA
 - 2. CDADFA
 - 3. CADACF
 - 4. CADFCC

Question ID : 7518979839
Option 1 ID : 75189739355
Option 2 ID : 75189739356
Option 3 ID : 75189739353
Option 4 ID : 75189739354
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.68 The sum of the first five prime numbers is:

- Ans**
- 1. 28
 - 2. 29
 - 3. 27
 - 4. 26

Question ID : 7518978644
Option 1 ID : 75189734573
Option 2 ID : 75189734574
Option 3 ID : 75189734575
Option 4 ID : 75189734576
Status : **Answered**
Chosen Option : 1

Q.69 If 7 September 2012 is a Friday, then what will be the day of the week on 17 December 2014?

- Ans**
- 1. Wednesday
 - 2. Sunday
 - 3. Monday
 - 4. Thursday

Question ID : 7518979153
Option 1 ID : 75189736611
Option 2 ID : 75189736612
Option 3 ID : 75189736609
Option 4 ID : 75189736610
Status : **Answered**
Chosen Option : 1

Q.70 Which of the following is/are a function of money?

- (A) Used as a store of value.
- (B) Used as a measure of value.

- Ans 1. Neither A nor B
2. Both A and B
3. Only B
4. Only A

Question ID : 7518976819
Option 1 ID : 75189727276
Option 2 ID : 75189727275
Option 3 ID : 75189727274
Option 4 ID : 75189727273
Status : Answered
Chosen Option : 3

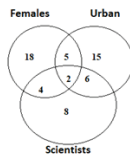
Q.71 Select the conclusion that is true based on the given statement.

Statement: $F > N \geq Z \leq S = B < W$

- Ans 1. $F > S$
2. $N > B$
3. $W > Z$
4. $N \geq W$

Question ID : 7518979832
Option 1 ID : 75189739325
Option 2 ID : 75189739327
Option 3 ID : 75189739326
Option 4 ID : 75189739328
Status : Answered
Chosen Option : 3

Q.72 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons.



How many such Female Scientists are there who are NOT from an Urban area?

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

Question ID : 75189710784
Option 1 ID : 75189743133
Option 2 ID : 75189743136
Option 3 ID : 75189743135
Option 4 ID : 75189743134
Status : Answered
Chosen Option : 4

Q.73 When resistors are connected in parallel combination, then resultant resistance will be:

- Ans
- 1. Less than least resistance
 - 2. More than largest resistance
 - 3. Equal to least resistance
 - 4. Equal to highest resistance

Question ID : 7518979560
Option 1 ID : 75189738238
Option 2 ID : 75189738237
Option 3 ID : 75189738240
Option 4 ID : 75189738239
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.74 The ratio of the sum of two numbers and their difference is 8 : 3. The ratio of the greater number to the smaller number is:

- Ans
- 1. 11 : 5
 - 2. 12 : 7
 - 3. 5 : 11
 - 4. 7 : 12

Question ID : 7518978664
Option 1 ID : 75189734655
Option 2 ID : 75189734653
Option 3 ID : 75189734656
Option 4 ID : 75189734654
Status : Answered
Chosen Option : 1

Q.75 A certain number of people are standing together, each having a different height. A is taller than D, but shorter than F. C is shorter than E and taller than B, who is taller than F. Only one person is taller than E, and only two persons are shorter than D. If no other person is part of the group, what is the total number of people in the group?

- Ans**
- ✓ 1. Nine
 - ✗ 2. Six
 - ✗ 3. Ten
 - ✗ 4. Seven

Question ID : 75189710768
Option 1 ID : 75189743072
Option 2 ID : 75189743070
Option 3 ID : 75189743069
Option 4 ID : 75189743071
Status : Answered
Chosen Option : 3

Q.76 Given below is a statement followed by two possible conclusions I and II. Read the information carefully and select the correct option.

Statement:

In order to minimise the consumption of plastic bags, the supermarkets across a metro city X have announced that all their customers need to bring their own bags or will have to buy jute bags from the supermarket that cost ₹13 per bag. Which of the following can be concluded from the given information?

- I. The revenue of plastic bag manufacturing companies catering to city X may reduce to some extent.
- II. The smaller general stores across city X will not need to ban plastic bags.

- Ans**
- ✗ 1. Both I and II can be concluded from the given information.
 - ✗ 2. Only II can be concluded from the given information.
 - ✗ 3. Neither I nor II can be concluded from the given information.
 - ✓ 4. Only I can be concluded from the given information.

Question ID : 7518979084
Option 1 ID : 75189736335
Option 2 ID : 75189736334
Option 3 ID : 75189736336
Option 4 ID : 75189736333
Status : Marked For Review
Chosen Option : 1

Q.77 _____ from the Indian Institute of Science, Bengaluru, received the Shanti Swarup Bhatnagar Prize for Biological Sciences for 2021.

- Ans**
- ✗ 1. Arun Kumar Shukla
 - ✓ 2. Amit Singh
 - ✗ 3. Anish Ghosh
 - ✗ 4. Binoy Kumar Saikia

Question ID : 7518978825
Option 1 ID : 75189735299
Option 2 ID : 75189735297
Option 3 ID : 75189735300
Option 4 ID : 75189735298
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.78 What are the finger like projections that increase the area of absorption of the small intestine called?

- Ans**
- 1. Sphincters
 - 2. Glands
 - 3. Cilia
 - 4. Villi

Question ID : 7518977823

Option 1 ID : 75189731291

Option 2 ID : 75189731292

Option 3 ID : 75189731290

Option 4 ID : 75189731289

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.79 Magnetic lines move from west to east direction and the conductor placed horizontally moves towards the upward direction. In such a case, the direction of induced current is towards:

- Ans**
- 1. west
 - 2. south
 - 3. north
 - 4. east

Question ID : 7518979587

Option 1 ID : 75189738346

Option 2 ID : 75189738348

Option 3 ID : 75189738347

Option 4 ID : 75189738345

Status : **Answered**

Chosen Option : 1

Q.80 If 63 chocolates are to be divided between A and B in the ratio 4 : 5, then how many chocolates will B get?

- Ans**
- 1. 35
 - 2. 49
 - 3. 28
 - 4. 27

Question ID : 7518979229

Option 1 ID : 75189736916

Option 2 ID : 75189736914

Option 3 ID : 75189736913

Option 4 ID : 75189736915

Status : **Answered**

Chosen Option : 1

Q.81 In a certain code language, 'BRICK' is written as 'BCIKR' and 'HOTEL' is written as 'EHLOT'. How will 'SPORT' be written in that language?

- Ans
- 1. SROTP
 - 2. OPRTS
 - 3. RSTPO
 - 4. OPRST

Question ID : 7518978002

Option 1 ID : 75189732008

Option 2 ID : 75189732005

Option 3 ID : 75189732006

Option 4 ID : 75189732007

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.82 Which of the following gases is released when zinc oxide reacts with carbon?

- Ans
- 1. Methane
 - 2. Carbon dioxide
 - 3. Ozone
 - 4. Carbon monoxide

Question ID : 75189710353

Option 1 ID : 75189741411

Option 2 ID : 75189741410

Option 3 ID : 75189741412

Option 4 ID : 75189741409

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Q.83 If $1.5x = 0.02y$, then the value of $\frac{1}{\left(\frac{y+x}{y-x}\right)}$ is _____.

- Ans
- 1. $\frac{370}{38}$
 - 2. $\frac{37}{38}$
 - 3. $\frac{37}{380}$
 - 4. $\frac{38}{37}$

Question ID : 75189710629

Option 1 ID : 75189742513

Option 2 ID : 75189742515

Option 3 ID : 75189742514

Option 4 ID : 75189742516

Status : **Answered**

Chosen Option : 2

Q.84 A train travels 20 km in 24 minutes. If its speed is increased by 5 km/h, the time taken by it to cover the same distance will be _____ minutes.

- Ans
- 1. $27\frac{9}{11}$
 - 2. $26\frac{9}{11}$
 - 3. $21\frac{9}{11}$
 - 4. $29\frac{9}{11}$

Question ID : 75189710670
Option 1 ID : 75189742677
Option 2 ID : 75189742679
Option 3 ID : 75189742678
Option 4 ID : 75189742680
Status : Answered
Chosen Option : 3

Q.85 Find the value of $\sec 33^\circ \operatorname{cosec} 57^\circ - \cot 57^\circ \tan 33^\circ + \cot 47^\circ \cot 43^\circ$.

- Ans
- 1. 0
 - 2. 1
 - 3. -1
 - 4. 2

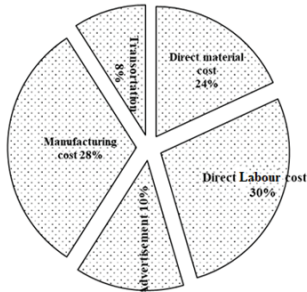
Question ID : 7518979115
Option 1 ID : 75189736457
Option 2 ID : 75189736458
Option 3 ID : 75189736460
Option 4 ID : 75189736459
Status : Answered
Chosen Option : 4

Q.86 What is the pH of salt containing a mixture of a strong base and a weak acid?

- Ans
- 1. pH equal to 0
 - 2. pH equal to 7
 - 3. pH less than 7
 - 4. pH more than 7

Question ID : 75189710361
Option 1 ID : 75189741444
Option 2 ID : 75189741442
Option 3 ID : 75189741441
Option 4 ID : 75189741443
Status : Marked For Review
Chosen Option : 3

Q.87 The following pie chart shows the percentage distribution of the expenditure incurred in manufacturing a certain product. Study the pie chart and answer the question.



If 500 products are manufactured and the direct labour cost on them amounts to ₹ 62,500, then what should be the selling price of the product so that manufacturer can earn a profit of 50%?

- Ans
- 1. ₹550
 - 2. ₹700
 - 3. ₹625
 - 4. ₹600

Question ID : 75189710968
 Option 1 ID : 75189743869
 Option 2 ID : 75189743872
 Option 3 ID : 75189743871
 Option 4 ID : 75189743870
 Status : Answered
 Chosen Option : 3

Q.88 Which of the following methods is NOT utilised by plants to eliminate waste?

- Ans
- 1. Elimination of waste by falling leaves
 - 2. Elimination of waste by sweating
 - 3. Storage of waste in cell vacuoles
 - 4. Excretion of waste in the soil

Question ID : 7518974355
 Option 1 ID : 75189717420
 Option 2 ID : 75189717419
 Option 3 ID : 75189717417
 Option 4 ID : 75189717418
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.89 The arithmetic mean of the observations 3, 6, 8, 10, 12, 14, 18, 24 and 31 is:

- Ans
- 1. 14
 - 2. 15
 - 3. 16
 - 4. 17

Question ID : 7518978717
 Option 1 ID : 75189734868
 Option 2 ID : 75189734867
 Option 3 ID : 75189734866
 Option 4 ID : 75189734865
 Status : Answered

Q.90 Select the option in which the numbers are related in the same way as are the numbers of the given sets.

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

E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(6, 7, 8)

(23, 34, 45)

Ans 1. (8, 19, 28)

2. (7, 12, 17)

3. (3, 4, 9)

4. (17, 22, 25)

Question ID : 7518979780
Option 1 ID : 75189739120
Option 2 ID : 75189739118
Option 3 ID : 75189739117
Option 4 ID : 75189739119
Status : Not Answered
Chosen Option : --

Q.91 In which of the following years, the 73rd and 74th Constitutional Amendment Acts came into force, which gave Constitutional status to Panchayati raj institutions (PRIs) and urban local bodies (ULBs) respectively?

Ans 1. 1991

2. 1992

3. 1993

4. 1994

Question ID : 75189710609
Option 1 ID : 75189742433
Option 2 ID : 75189742434
Option 3 ID : 75189742435
Option 4 ID : 75189742436
Status : Answered
Chosen Option : 2

Q.92 Is there any advantage of the structure of the nephron as a long tubular structure?

Ans 1.

No, the long tubular structure has no advantage because filtration occurs at the cup-shaped end.

2.

Yes, the long tubes can be coiled and packed at high density to give firmness to the kidney.

3.

No, all nephrons are not long – some are short and others are long, but all are functional.

4.

Yes, the long tube gives time and space for re-absorption of excess water from the initial filtrate.

Question ID : 75189710104
Option 1 ID : 75189740413
Option 2 ID : 75189740416
Option 3 ID : 75189740415
Option 4 ID : 75189740414
Status : Not Answered
Chosen Option : --

Q.93 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(6, 30, 54)

(16, 80, 144)

Ans ✓ 1. (21, 105, 189)

✗ 2. (8, 35, 72)

✗ 3. (12, 48, 108)

✗ 4. (15, 75, 105)

Question ID : 75189710937
Option 1 ID : 75189743748
Option 2 ID : 75189743746
Option 3 ID : 75189743745
Option 4 ID : 75189743747
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.94 Which of the following solid compounds is formed when lead nitrate is heated?

Ans ✗ 1. Pb

✗ 2. Pb(OH)_2

✓ 3. PbO

✗ 4. $\text{Pb(CO}_3)_2$

Question ID : 75189710339
Option 1 ID : 75189741356
Option 2 ID : 75189741353
Option 3 ID : 75189741354
Option 4 ID : 75189741355
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.95 How many such pairs of letters are there in the word MASTER (in the forward direction) which have as many letters between them in the word as there are in the English alphabetical order?

Ans ✗ 1. 4

✗ 2. 3

✓ 3. 2

✗ 4. 1

Question ID : 7518977959
Option 1 ID : 75189731836
Option 2 ID : 75189731835
Option 3 ID : 75189731834
Option 4 ID : 75189731833
Status : **Answered**
Chosen Option : 2

Q.96 Five friends I, J, K, L and M are sitting in a row facing north. Only I is seated between L and M. K is seated 2nd from the left end and is not an immediate neighbour of M. Where is J seated?

- Ans**
- 1. At the extreme right end
 - 2. 2nd from the right end
 - 3. 3rd from the right end
 - 4. At the extreme left end

Question ID : 7518979711
Option 1 ID : 75189738843
Option 2 ID : 75189738842
Option 3 ID : 75189738841
Option 4 ID : 75189738844
Status : Answered
Chosen Option : 4

Q.97 Banas is a tributary of which of the following rivers?

- Ans**
- 1. Chambal
 - 2. Gandak
 - 3. Rapti
 - 4. Tunga

Question ID : 7518974277
Option 1 ID : 75189717108
Option 2 ID : 75189717105
Option 3 ID : 75189717106
Option 4 ID : 75189717107
Status : Marked For Review
Chosen Option : 1

Q.98 The Young Bengal Movement was started by _____, who had come to Calcutta in 1826 and was appointed in the Hindu College as a teacher of English literature and History.

- Ans**
- 1. Keshab Chandra Sen
 - 2. Pandit Ishwar Chandra Vidyasagar
 - 3. Swamy Dayanand Saraswati
 - 4. Henry Lui Vivian Derozio

Question ID : 75189710427
Option 1 ID : 75189741706
Option 2 ID : 75189741707
Option 3 ID : 75189741708
Option 4 ID : 75189741705
Status : Marked For Review
Chosen Option : 2

Q.99 Which of the following is an INCORRECT formula for electric power?

Ans 1. $P = I^2R$

2. $P = IV$

3. $P = \frac{V}{I}$

4. $P = \frac{V^2}{R}$

Question ID : 7518979574
Option 1 ID : 75189738293
Option 2 ID : 75189738296
Option 3 ID : 75189738295
Option 4 ID : 75189738294
Status : Answered
Chosen Option : 3

Q.100 Which of the following schemes is formulated to mitigate gender disparity in science and engineering research funding in various Science & Technology programs in Indian academic institutions and R&D laboratories?

Ans 1. SERB-CONTROL

2. SERB-DRIVE

3. SERB-ENERGY

4. SERB-POWER

