Roll Number	
Candidate Name	
Test Center Name	Eastern Academy of Science & Technology
Test Date	30/09/2022
Test Time	5:00 PM - 6:30 PM
Subject	Level 1

* Note

Correct Answer will carry 1 mark per Question.

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

1. Options shown in green color with a tick icon are correct.

2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **Level 1**

Q.1 The position of how many letters will remain unchanged if each of the letters in the word PROUDLY is arranged in alphabetical order?

Ans ✔ 1. Two

✘ 2. Three

✘ 3. One

✘ 4. Four

Question ID : **75189715159**
Option 1 ID : **75189760634**
Option 2 ID : **75189760633**
Option 3 ID : **75189760636**
Option 4 ID : **75189760635**
Status : **Answered**
Chosen Option : **1**

Q.2 What is the name of the programme launched by the Ministry of Electronics and Information Technology in 2021 to assist startups in their early stages?

Ans ✘ 1. Startup India Seed Fund

✘ 2. ASPIRE

✘ 3. Multiplier Grants Scheme

✔ 4. SAMRIDH

Question ID : **75189714031**
Option 1 ID : **75189756123**
Option 2 ID : **75189756121**
Option 3 ID : **75189756122**
Option 4 ID : **75189756124**
Status : **Answered**
Chosen Option : **2**

Q.3 The selling price of 10 books is equal to the cost price of 15 books. Find the loss or gain percentage.

Ans

✗ 1. $\frac{100}{3}$% Gain

✗ 2. $\frac{100}{3}$% Loss

✗ 3. 50% Loss

✔ 4. 50% Gain

Question ID : **75189713311**
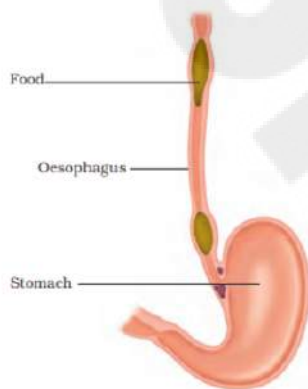Option 1 ID : **75189753241**
Option 2 ID : **75189753243**
Option 3 ID : **75189753242**
Option 4 ID : **75189753244**
Status : **Answered**
Chosen Option : **4**

Q.4 The diagram below shows a part of the human alimentary canal. Which process is taking place and how?

Food
Oesophagus
Stomach

Ans

✗ 1.
Digestion, due to rhythmic contraction and relaxation of muscular walls

✔ 2.
Peristalsis, due to rhythmic contraction and relaxation of muscular walls

✗ 3. Digestion, due to enzymes present

✗ 4. Peristalsis, due to enzymes present

Question ID : **7518974577**
Option 1 ID : **75189718308**
Option 2 ID : **75189718305**
Option 3 ID : **75189718306**
Option 4 ID : **75189718307**
Status : **Answered**
Chosen Option : **2**

Q.5 In a room, a magnetic field is applied vertically upwards. Electron and proton beams are released horizontally from south towards the north direction into this field. The directions of deflections of these beams will be _____ and _____, respectively.

Ans
- ✗ 1. west, east
- ✗ 2. vertically up, vertically down
- ✓ 3. east, west
- ✗ 4. vertically down, vertically up

Question ID : **75189715108**
Option 1 ID : **75189760430**
Option 2 ID : **75189760431**
Option 3 ID : **75189760429**
Option 4 ID : **75189760432**
Status : **Answered**
Chosen Option : **3**

Q.6 Where is the Lokrang Utsav celebrated?

Ans
- ✗ 1. Nagaland
- ✓ 2. Madhya Pradesh
- ✗ 3. Sikkim
- ✗ 4. Rajasthan

Question ID : **75189714039**
Option 1 ID : **75189756156**
Option 2 ID : **75189756155**
Option 3 ID : **75189756153**
Option 4 ID : **75189756154**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Which of the following numbers will replace the question mark (?) in the given series?

3   30   300   3000   ?

Ans
- ✓ 1. 30000
- ✗ 2. 300000
- ✗ 3. 3000
- ✗ 4. 3000000

Question ID : **75189712686**
Option 1 ID : **75189750743**
Option 2 ID : **75189750742**
Option 3 ID : **75189750741**
Option 4 ID : **75189750744**
Status : **Answered**
Chosen Option : **1**

Q.8 Which of the following is an indirect tax?

Ans
✗ 1. Gift tax

✗ 2. Wealth tax

✗ 3. Income tax

✔ 4. Goods and Services Tax

Question ID : **7518976805**
Option 1 ID : **75189727219**
Option 2 ID : **75189727217**
Option 3 ID : **75189727218**
Option 4 ID : **75189727220**
Status : **Answered**
Chosen Option : **4**

Q.9 A toy is made of a solid cube and a solid cuboid. Each side of the cube is 5 cm long, and the cuboid has dimensions given as 5 cm × 2 cm × 8 cm. What is the volume of the toy?

Ans
✗ 1. 215 cm^3

✗ 2. 250 cm^3

✔ 3. 205 cm^3

✗ 4. 225 cm^3

Question ID : **75189713405**
Option 1 ID : **75189753619**
Option 2 ID : **75189753618**
Option 3 ID : **75189753617**
Option 4 ID : **75189753620**
Status : **Answered**
Chosen Option : **3**

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

$3 \times 5 + 20 \div 8 - 17 = 11$

Ans
✔ 1. 5 and 8

✗ 2. 17 and 3

✗ 3. 8 and 17

✗ 4. 5 and 17

Question ID : **75189713663**
Option 1 ID : **75189754652**
Option 2 ID : **75189754649**
Option 3 ID : **75189754651**
Option 4 ID : **75189754650**
Status : **Answered**
Chosen Option : **1**

Q.11 In a certain code language, 'FAR' is written as 'SARF' and 'PICK' is written as 'SICKP'. How will 'BLACK' be written in the same code language?

Ans
  ✗ 1. SLBACK

  ✗ 2. SKBLAC

  ✗ 3. SBLACK

  ✓ 4. SLACKB

Question ID :	**75189714640**
Option 1 ID :	**75189758559**
Option 2 ID :	**75189758558**
Option 3 ID :	**75189758557**
Option 4 ID :	**75189758560**
Status :	**Answered**
Chosen Option :	**4**

Q.12 According to a survey, the percentage of people who read different genres books is shown in the following pie-chart. Blue represents people who read fantasy, red represents people who read mystery, green represents people who read horror, and purple represents people who read fiction. Study the pie-chart and answer the question.
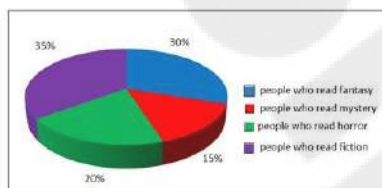
The survey was conducted on 80% students of a school. How many students read mystery and horror books if the school has 47,500 students overall?

Ans
  ✗ 1. 5,700

  ✓ 2. 13,300

  ✗ 3. 12,400

  ✗ 4. 7,600

Question ID :	**75189711254**
Option 1 ID :	**75189745013**
Option 2 ID :	**75189745016**
Option 3 ID :	**75189745014**
Option 4 ID :	**75189745015**
Status :	**Answered**
Chosen Option :	**2**

Q.13 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)

(5, 315, 21)
(9, 486, 18)

Ans ✗ 1. (8, 368, 23)

✗ 2. (12, 560, 11)

✓ 3. (10, 480, 16)

✗ 4. (7, 294, 21)

Q.14 Four friends R, S, T and U are sitting at the exact centre of the sides of a rectangular table facing the centre (but not necessarily in the same order). R is sitting to the immediate right of S. T is sitting to the immediate left of U.

Which of the following pairs of friends is sitting opposite to each other?

Ans ✗ 1. T - R

✗ 2. S - U

✗ 3. R - S

✓ 4. R - U

Q.15 Which was the principal source and sector of occupation of the Indian economy on the eve of Independence?

Ans ✗ 1. Education

✗ 2. Industry

✓ 3. Agriculture

✗ 4. Services

Q.16 The inlet of the Bay of Bengal between south-eastern India and northern Sri Lanka is called:

Ans
- ✔ 1. Palk Strait
- ✘ 2. Palk Passage
- ✘ 3. Palk Channel
- ✘ 4. Palk Canal

Question ID : **75189712509**
Option 1 ID : **75189750033**
Option 2 ID : **75189750036**
Option 3 ID : **75189750034**
Option 4 ID : **75189750035**
Status : **Answered**
Chosen Option : **1**

Q.17 The photographs taken from a satellite show the sky as dark. This is because:

Ans
- ✘ 1. no dispersion occurs
- ✘ 2. no refraction occurs
- ✔ 3. no scattering occurs
- ✘ 4. no reflection occurs

Question ID : **75189711304**
Option 1 ID : **75189745216**
Option 2 ID : **75189745213**
Option 3 ID : **75189745215**
Option 4 ID : **75189745214**
Status : **Answered**
Chosen Option : **3**

Q.18 Simplify the following.

$$\frac{1}{12} + \frac{1}{16} - \frac{1}{8}$$

Ans
- ✔ 1. $\dfrac{1}{48}$
- ✘ 2. $\dfrac{3}{24}$
- ✘ 3. $\dfrac{13}{48}$
- ✘ 4. $\dfrac{1}{24}$

Question ID : **75189713261**
Option 1 ID : **75189753042**
Option 2 ID : **75189753044**
Option 3 ID : **75189753041**
Option 4 ID : **75189753043**
Status : **Answered**
Chosen Option : **3**

Q.19 What is the full form of TEDP, which is a structured training programme of the Department of Science and Technology (DST), Government of India?

Ans

✗ 1. Technological Enterprises and Development Programme

✗ 2. Technology and Entrepreneurship Development Programme

✗ 3. Technical and Entrepreneurship Development Programme

✓ 4. Technology Based Entrepreneurship Development Programme

Question ID : **75189712442**
Option 1 ID : **75189749767**
Option 2 ID : **75189749766**
Option 3 ID : **75189749768**
Option 4 ID : **75189749765**
Status : **Not Answered**
Chosen Option : **--**

Q.20 Select the set 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 /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)

(8, 5, 12)
(2, 6, 22)

Ans

✗ 1. (5, 9, 19)

✓ 2. (1, 6, 23)

✗ 3. (17, 8, 11)

✗ 4. (9, 12, 23)

Question ID : **75189711419**
Option 1 ID : **75189745673**
Option 2 ID : **75189745676**
Option 3 ID : **75189745675**
Option 4 ID : **75189745674**
Status : **Answered**
Chosen Option : **2**

Q.21 Sudesh starts from point A and drives 9 km towards North. He takes a left turn and drives for 4 km, he then turns right and drives for 2 km. He then turns right and drives for 9 km. He takes a final right turn and drives for 11 km to reach point M. What is the distance between points A and M (all turns are 90 degree turns only)?

Ans

✓ 1. 5 km

✗ 2. 2 km

✗ 3. 4 km

✗ 4. 6 km

Question ID : **75189715279**
Option 1 ID : **75189761115**
Option 2 ID : **75189761116**
Option 3 ID : **75189761113**
Option 4 ID : **75189761114**
Status : **Answered**
Chosen Option : **1**

Q.22 Which of the following statements is correct about litmus solution?

Ans ✅ 1.

Litmus solution is a purple dye, which is extracted from lichen.

❌ 2.

Litmus solution is an orange dye, which is extracted from moss.

❌ 3.

Litmus solution is an orange dye, which is extracted from lichen.

❌ 4.

Litmus solution is a purple dye, which is extracted from moss.

Q.23 What time is required for a 150 m long train to cross a 100 m long tunnel, if the train travels at a speed of 25 km/h?

Ans ❌ 1. 32 seconds

✅ 2. 36 seconds

❌ 3. 30 seconds

❌ 4. 25 seconds

Q.24 A, B, C, D, E and F live on six 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 6. D lives on an odd numbered floor but not on floor number 3. Only two people live between D and A. C lives immediately above A. Only two people live between C and B. F lives on one of the floors below B but not on the lowermost floor. Who lives on floor number 4?

Ans ❌ 1. E

❌ 2. C

❌ 3. A

✅ 4. F

Q.25 Simplify $(3^{-1} \times 6^{-1})^{-1} \div 3^{-1}$

Ans   ✗ 1. 65

   ✗ 2. 56

   ✗ 3. 45

   ✓ 4. 54

Q.26 In the given figure, a pair of parallel lines are intersected by a transversal. Find the value of angle a.
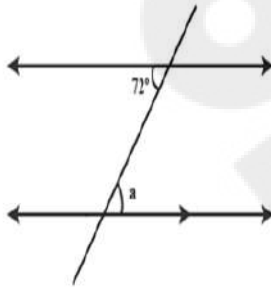
Ans   ✗ 1. 96°

   ✗ 2. 36°

   ✗ 3. 108°

   ✓ 4. 72°

Q.27 The roots of the quadratic equations $6x^2 - 11x + 3 = 0$ are:

Ans

✗ 1. $\frac{1}{3}, \frac{2}{3}$

✓ 2. $\frac{1}{3}, \frac{3}{2}$

✗ 3. $\frac{2}{3}, \frac{3}{2}$

✗ 4. $\frac{1}{2}, \frac{3}{2}$

Question ID : 75189712839
Option 1 ID : 75189751354
Option 2 ID : 75189751353
Option 3 ID : 75189751356
Option 4 ID : 75189751355
Status : **Answered**
Chosen Option : **2**

Q.28 Delhi generally receives the monsoon showers from the _____ by the end of June (tentative date is 29th of June).

Ans

✗ 1. Returning Monsoon

✓ 2. Bay of Bengal branch

✗ 3. Arabian Sea branch

✗ 4. Mediterranean region branch

Question ID : 7518978900
Option 1 ID : 75189735599
Option 2 ID : 75189735597
Option 3 ID : 75189735598
Option 4 ID : 75189735600
Status : **Answered**
Chosen Option : **2**

Q.29 Henry Louis Vivian Derozio was associated with which movement?

Ans

✓ 1. Young Bengal Movement

✗ 2. Theosophical Society

✗ 3. Arya Samaj

✗ 4. Prarthana Sabha

Question ID : 75189712125
Option 1 ID : 75189748497
Option 2 ID : 75189748498
Option 3 ID : 75189748499
Option 4 ID : 75189748500
Status : **Marked For Review**
Chosen Option : **1**

Q.30 In this question, a group of numbers/symbols is coded using letters as per the given table and the conditions which follow. The correct combination of codes following the conditions is your answer.

Number/Symbol	$	3	@	8	℅	2	#	&	6	Ψ	π	7	5	φ
Code	A	V	L	K	R	M	B	F	N	T	E	C	S	W

Conditions:
(i) If the first element is a symbol and the last element is a number, the codes for these two (the first and the last elements) are to be interchanged.
(ii) If the first element is an odd number and the last element is an even number, the first and last elements are to be coded as ©.
(iii) If both the second and third elements are perfect squares, the third element is to be coded as the code for the second element.

72π3@6

Ans
  ✘ 1. NMEVLC
  ✘ 2. CMEVLN
  ✘ 3. ©MCFL©
  ✔ 4. ©MEVL©

Q.31 A student performed a reaction with zinc and sulphuric acid. zinc sulphate is formed along with a gas. Which gas is evolved?

Ans
  ✘ 1. Carbon monoxide
  ✘ 2. Oxygen
  ✘ 3. Carbon dioxide
  ✔ 4. Hydrogen

Q.32 P, Q, R, S, T and U are six different cars, each of a different weight. Q is heavier than only one car. S is heavier than Q. R is heavier than P. T is heavier than S. P is heavier than T. Which car among the six is the heaviest?

Ans
  ✘ 1. P
  ✔ 2. R
  ✘ 3. T
  ✘ 4. S

Q.33 Each of the digits in the number 7639482 is arranged in ascending order from right to left. The position of how many digits will remain unchanged as compared to that in the original number?

Ans

✗ 1. One

✗ 2. None

✗ 3. Three

✔ 4. Two

Question ID : **75189713064**
Option 1 ID : **75189752254**
Option 2 ID : **75189752253**
Option 3 ID : **75189752256**
Option 4 ID : **75189752255**
Status : **Answered**
Chosen Option : **4**

Q.34 In a chemical reaction, a substance gains hydrogen. This process is said to be_____.

Ans

✗ 1. bromination

✗ 2. oxidation

✔ 3. reduction

✗ 4. chlorination

Question ID : **75189715149**
Option 1 ID : **75189760595**
Option 2 ID : **75189760596**
Option 3 ID : **75189760593**
Option 4 ID : **75189760594**
Status : **Answered**
Chosen Option : **3**

Q.35 Among six friends A, B, C, D, E and F, each has a different height. Only two people are shorter than B. Only one person is taller than A. E is neither the tallest nor the shortest. C is shorter than E but taller than F. Who is the taller than B but shorter than A?

Ans

✗ 1. F

✗ 2. C

✗ 3. D

✔ 4. E

Question ID : **75189714580**
Option 1 ID : **75189758320**
Option 2 ID : **75189758319**
Option 3 ID : **75189758317**
Option 4 ID : **75189758318**
Status : **Answered**
Chosen Option : **1**

Q.36 The Articles of the Indian Constitution are grouped into how many different parts?

Ans ✔ 1. 22

✘ 2. 12

✘ 3. 395

✘ 4. 8

Question ID : **75189712416**

Option 1 ID : **75189749663**

Option 2 ID : **75189749662**

Option 3 ID : **75189749664**

Option 4 ID : **75189749661**

Status : **Answered**

Chosen Option : **1**

Q.37 Which of the following metals has least reactivity?

Ans ✘ 1. Silver

✘ 2. Mercury

✘ 3. Sodium

✔ 4. Gold

Question ID : **75189710376**

Option 1 ID : **75189741502**

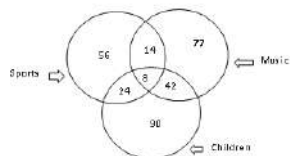Option 2 ID : **75189741504**

Option 3 ID : **75189741503**

Option 4 ID : **75189741501**

Status : **Answered**

Chosen Option : **4**

Q.38 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons.

How many such children are there who like music but NOT sports?

Ans ✘ 1. 50

✔ 2. 42

✘ 3. 56

✘ 4. 8

Question ID : **75189713037**

Option 1 ID : **75189752145**

Option 2 ID : **75189752146**

Option 3 ID : **75189752147**

Option 4 ID : **75189752148**

Status : **Answered**

Chosen Option : **2**

Q.39 Three statements are given followed by two conclusions numbered I and II. You have to take the statements to be true, even if they seem to be at variance with commonly known facts and decide which of the conclusions logically follow(s) from the statements.

Statements:
Some Dogs are Barks.
Some Barks are Trees.
All Trees are Woods.

Conclusions:
(I) Some Dogs are Trees.
(II) Some Woods are Barks.

Ans ✗ 1. Only conclusion (I) follows.

✗ 2. Neither conclusion (I) nor (II) follows.

✓ 3. Only conclusion (II) follows.

✗ 4. Both conclusions (I) and (II) follow.

Question ID : **75189714626**
Option 1 ID : **75189758501**
Option 2 ID : **75189758504**
Option 3 ID : **75189758502**
Option 4 ID : **75189758503**
Status : **Answered**
Chosen Option : **3**

Q.40 The heat produced in an electric circuit is proportional to _____.

Ans ✓ 1. $(current)^2$

✗ 2. $1/current$

✗ 3. $current$

✗ 4. $1/(current)^2$

Question ID : **75189713846**
Option 1 ID : **75189755383**
Option 2 ID : **75189755382**
Option 3 ID : **75189755381**
Option 4 ID : **75189755384**
Status : **Answered**
Chosen Option : **1**

Q.41 If each of the letters in the word 'ACQUIRE' is arranged in alphabetical order, then how many letters will be there in the English alphabetical series between the letter that is fifth from the left end and the one that is first from the right end?

Ans ✓ 1. 3

✗ 2. 4

✗ 3. 5

✗ 4. 2

Question ID : **7518974988**
Option 1 ID : **75189719950**
Option 2 ID : **75189719952**
Option 3 ID : **75189719951**
Option 4 ID : **75189719949**
Status : **Answered**
Chosen Option : **1**

Q.42 Find the mode of the given frequency distribution.

Marks	Frequency
51	3
29	4
85	6
40	7

Ans
✗ 1. 51

✗ 2. 7

✗ 3. 85

✓ 4. 40

Question ID : **75189713347**
Option 1 ID : **75189753385**
Option 2 ID : **75189753387**
Option 3 ID : **75189753386**
Option 4 ID : **75189753388**
Status : **Answered**
Chosen Option : **4**

Q.43 Which of the following is an example of combination reaction?

Ans
✓ 1. $2H_2(g) + O_2(g) \rightarrow 2H_2O(l)$

✗ 2. $2HCl(aq) + 2Na(s) \rightarrow NaCl(aq) + H_2(g)$

✗ 3. $CH_4(g) + 2O_2(g) \rightarrow CO_2(g) + 2H_2O(g)$

✗ 4. $HCl(aq) + NaOH(aq) \rightarrow NaCl(aq) + H_2O(l)$

Question ID : **75189715006**
Option 1 ID : **75189760022**
Option 2 ID : **75189760023**
Option 3 ID : **75189760024**
Option 4 ID : **75189760021**
Status : **Answered**
Chosen Option : **1**

Q.44 Which of the following options shows the main waste products produced by plants?

Ans
✓ 1. CO_2, O_2 and water vapour

✗ 2. Only CO_2 and water vapour

✗ 3. Only O_2 and water vapour

✗ 4. Only CO_2 and O_2

Question ID : **7518974553**
Option 1 ID : **75189718212**
Option 2 ID : **75189718211**
Option 3 ID : **75189718210**
Option 4 ID : **75189718209**
Status : **Answered**
Chosen Option : **1**

Q.45 The total amount payable at maturity on a certain sum invested at simple interest at 8% p.a. for $3\frac{1}{2}$ years exceeds the simple interest payable on the same sum at 10.5% p.a. for 12 years by ₹156. The sum (in ₹) is:

Ans
✓ 1. 7,800
✗ 2. 8,000
✗ 3. 7,500
✗ 4. 8,200

Q.46 Six colleagues are sitting around a circular table facing the centre. Amrita is sitting second to the left of Kavita. Meagan is sitting second to the right of Sabina. Rohan is an immediate neighbour of both Kavita and Amrita. Rochelle is an immediate neighbour of both Meagan and Sabina. Who is sitting to the immediate right of Meagan?

Ans
✗ 1. Sabina
✗ 2. Rochelle
✓ 3. Amrita
✗ 4. Rohan

Q.47 Find the least number which, when divided by 12, 16 and 18, leaves a remainder of 5 in each case.

Ans
✗ 1. 145
✗ 2. 144
✗ 3. 147
✓ 4. 149

Q.48 Hinduism encourages full participation in life through the Purusharthas – life goals. Which of the following is NOT one of them?

Ans
- ✗ 1. Moksha
- ✓ 2. Sattva
- ✗ 3. Kama
- ✗ 4. Artha

Question ID : **75189712372**
Option 1 ID : **75189749488**
Option 2 ID : **75189749485**
Option 3 ID : **75189749487**
Option 4 ID : **75189749486**
Status : **Not Answered**
Chosen Option : **--**

Q.49 The cost of a camera is ₹25,000. A leather case costing ₹2,750 was also sold along with this. Arti bought these two items. After using them for few years, she sold them for ₹26,085. What is the loss percentage?

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

Question ID : **75189712031**
Option 1 ID : **75189748124**
Option 2 ID : **75189748123**
Option 3 ID : **75189748121**
Option 4 ID : **75189748122**
Status : **Answered**
Chosen Option : **4**

Q.50 One year ago, Praveena was four times as old as her daughter. Six years hence, Praveena's age will exceed twice her daughter's age by 7 years. What is the sum of their present ages?

Ans
- ✗ 1. 32 years
- ✓ 2. 37 years
- ✗ 3. 35 years
- ✗ 4. 39 years

Question ID : **75189712835**
Option 1 ID : **75189751337**
Option 2 ID : **75189751339**
Option 3 ID : **75189751338**
Option 4 ID : **75189751340**
Status : **Answered**
Chosen Option : **1**

Q.51 In which one of the following Indian state is Mawsynram located which is at present the wettest place in India, with an average annual rainfall of 11802.4 mm (average of the 1974-2022 period)?

Ans
✗ 1. Mizoram

✗ 2. Assam

✓ 3. Meghalaya

✗ 4. Tripura

Question ID : **75189712506**
Option 1 ID : **75189750022**
Option 2 ID : **75189750024**
Option 3 ID : **75189750021**
Option 4 ID : **75189750023**
Status : **Answered**
Chosen Option : **3**

Q.52 The present age of a father is 5 years more than three times the age of his daughter. Four years hence, the father's age will be 8 years more than twice the age of his daughter. The present age of the daughter is:

Ans
✗ 1. 6 years

✓ 2. 7 years

✗ 3. 8 years

✗ 4. 9 years

Question ID : **75189712827**
Option 1 ID : **75189751305**
Option 2 ID : **75189751306**
Option 3 ID : **75189751307**
Option 4 ID : **75189751308**
Status : **Answered**
Chosen Option : **2**

Q.53 Which of the following numbers will replace the question mark (?) in the given series?

4   8   35   51   176   ?

Ans
✗ 1. 234

✗ 2. 208

✓ 3. 212

✗ 4. 226

Question ID : **75189712698**
Option 1 ID : **75189750789**
Option 2 ID : **75189750792**
Option 3 ID : **75189750790**
Option 4 ID : **75189750791**
Status : **Answered**
Chosen Option : **3**

Q.54 10 men can dig a well 50 feet deep in 8 days. How many men can dig a well 100 feet deep in 10 days?

Ans ✔ 1. 16

✘ 2. 18

✘ 3. 14

✘ 4. 15

Question ID : **75189713329**
Option 1 ID : **75189753316**
Option 2 ID : **75189753313**
Option 3 ID : **75189753314**
Option 4 ID : **75189753315**
Status : **Answered**
Chosen Option : **1**

Q.55 How many carbon atoms are arranged in the shape of a football like structure in fullerene?

Ans ✘ 1. 55

✘ 2. 40

✘ 3. 30

✔ 4. 60

Question ID : **75189714752**
Option 1 ID : **75189759007**
Option 2 ID : **75189759006**
Option 3 ID : **75189759008**
Option 4 ID : **75189759005**
Status : **Answered**
Chosen Option : **4**

Q.56 Sneha starts walking 5 m towards the east. She turns right and walks 5 m. Then she takes a left, walks 4 m and again takes a left. She walks 2 m and then again takes a left. She walks 3 m and then takes a right. She walks 2 m, takes a right again and walks 3 m. In which direction is she facing now? (All turns are 90 degree turns only)

Ans ✘ 1. North

✘ 2. West

✘ 3. South

✔ 4. East

Question ID : **75189714256**
Option 1 ID : **75189757022**
Option 2 ID : **75189757021**
Option 3 ID : **75189757023**
Option 4 ID : **75189757024**
Status : **Answered**
Chosen Option : **4**

Q.57 A man's monthly income is ₹50,000. He spends 25% of it on tax, 30% of the remaining income on household expenses, and 10% of the still remaining income on entertainment. He saves the remaining part of his income. How much money will the man save per year, assuming that the above data is same for all 12 months?

Ans
- ✗ 1. ₹2,83,050
- ✗ 2. ₹2,38,500
- ✔ 3. ₹2,83,500
- ✗ 4. ₹2,85,300

Question ID : **75189713291**
Option 1 ID : **75189753161**
Option 2 ID : **75189753162**
Option 3 ID : **75189753164**
Option 4 ID : **75189753163**
Status : **Answered**
Chosen Option : **3**

Q.58 Focal length of the concave lens of power 10 D is:

Ans
- ✗ 1. 0.1 m
- ✗ 2. 10 m
- ✗ 3. −10 m
- ✔ 4. −0.1 m

Question ID : **75189714091**
Option 1 ID : **75189756362**
Option 2 ID : **75189756364**
Option 3 ID : **75189756363**
Option 4 ID : **75189756361**
Status : **Answered**
Chosen Option : **4**

Q.59 In a Lions Club, 70% of the members are young and 30% of the members are old. The average age of the old members is 40 years and that of the young members is 20 years. What is the average age of all the members (in years)?

Ans
- ✔ 1. 26
- ✗ 2. 22
- ✗ 3. 28
- ✗ 4. 24

Question ID : **75189713443**
Option 1 ID : **75189753769**
Option 2 ID : **75189753772**
Option 3 ID : **75189753771**
Option 4 ID : **75189753770**
Status : **Answered**
Chosen Option : **1**

Q.60 Launched in May 2020, which of the following scheme unifies all efforts related to digital/online/on-air education to enable coherent multi-mode access to education?

Ans

✔ 1. PM e-Vidya

✘ 2. Samagra Shiksha

✘ 3. Vidyanjali

✘ 4. National Digital Education Architecture (NDEAR)

Q.61 The following line graph shows number of cars sold by company A over the years. Study the graph and answer the question.
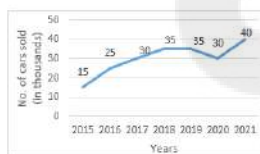
What is the respective ratio of the total cars sold by company A in 2015 and 2017 together to the total cars sold in 2019 and 2021 together?

Ans

✘ 1. 3 : 13

✘ 2. 5 : 3

✘ 3. 13 : 3

✔ 4. 3 : 5

Q.62 One side of a triangle is 7 metres longer than twice the smallest side. Another side is 5 metres longer than three times the smallest side. If the perimeter of the triangle is 90 metres, find the length of its smallest side.

Ans

✘ 1. 10 m

✘ 2. 9 m

✔ 3. 13 m

✘ 4. 12 m

Q.63 All 24 students of a class are standing in a straight row facing north. Amit is 3rd from the right end, while Maria is 3rd from the left end. How many students stand between Maria and Amit?

Ans
✗ 1. 17

✔ 2. 18

✗ 3. 14

✗ 4. 16

Q.64 Which of the following options is the closest approximate value which will come in place of question mark (?) in the following equation?

19.99 – 10.01 + 24.99 × 10.01 = ?

Ans
✗ 1. 280

✗ 2. 265

✗ 3. 270

✔ 4. 260

Q.65 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.

BOOK : YLLP :: NOTE : MLGV :: WORD : ?

Ans
✗ 1. IWDL

✗ 2. LDWI

✔ 3. DLIW

✗ 4. ILDW

Q.66 In 1987, the United Nations Environment Programme (UNEP) succeeded in forging an agreement to freeze CFC production at _____ levels.

Ans
- ✗ 1. 1988
- ✓ 2. 1986
- ✗ 3. 1985
- ✗ 4. 1967

Question ID : **75189710268**
Option 1 ID : **75189741072**
Option 2 ID : **75189741069**
Option 3 ID : **75189741071**
Option 4 ID : **75189741070**
Status : **Answered**
Chosen Option : **3**

Q.67 In which year Namami Gange Programme is an Integrated Conservation Mission approved as a Flagship Programme by the Union Government?

Ans
- ✗ 1. 2016
- ✓ 2. 2014
- ✗ 3. 2015
- ✗ 4. 2013

Question ID : **75189710305**
Option 1 ID : **75189741220**
Option 2 ID : **75189741217**
Option 3 ID : **75189741219**
Option 4 ID : **75189741218**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.68 Which part of the human sperm is responsible for determination of sex of the zygote?
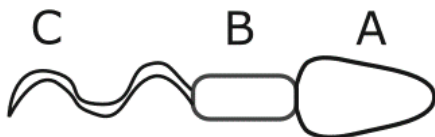
Ans
- ✗ 1. Part B only
- ✓ 2. Part A only
- ✗ 3. Parts A and B
- ✗ 4. Parts B and C

Question ID : **75189712301**
Option 1 ID : **75189749203**
Option 2 ID : **75189749201**
Option 3 ID : **75189749202**
Option 4 ID : **75189749204**
Status : **Answered**
Chosen Option : **3**

Q.69 The correct sign conventions for focal length (f) and radius of curvature (R) for the formation of images by spherical mirrors is:

Ans

✗ 1. for convex mirror f is negative, R is positive

✗ 2. for convex mirror f is negative, R is negative

✗ 3. for concave mirror f is positive, R is negative

✔ 4. for concave mirror f is negative, R is negative

Question ID : **75189715089**
Option 1 ID : **75189760353**
Option 2 ID : **75189760355**
Option 3 ID : **75189760354**
Option 4 ID : **75189760356**
Status : **Answered**
Chosen Option : **4**

Q.70 How many gold medals were secured by India at the Tokyo Olympics 2020?

Ans ✗ 1. Four

✗ 2. Two

✔ 3. One

✗ 4. Three

Question ID : **75189713969**
Option 1 ID : **75189755876**
Option 2 ID : **75189755874**
Option 3 ID : **75189755873**
Option 4 ID : **75189755875**
Status : **Answered**
Chosen Option : **3**

Q.71 Which of the following is one of the Central Government's schemes of interest subsidy on educational loans for overseas studies for students belonging to the minority communities?

Ans ✗ 1. Padho Videsh

✗ 2. Nai Manzil

✔ 3. Padho Pardesh

✗ 4. Naya Savera

Question ID : **75189712350**
Option 1 ID : **75189749400**
Option 2 ID : **75189749398**
Option 3 ID : **75189749399**
Option 4 ID : **75189749397**
Status : **Answered**
Chosen Option : **3**

Q.72 Which of the following forms a part of the State Executive as per the Constitution of India?

Ans

  ✗ 1. Attorney-General for India

  ✗ 2. Vice President of India

  ✔ 3. Governor of State

  ✗ 4. Prime Minister of India

Question ID : **7518978598**
Option 1 ID : **75189734389**
Option 2 ID : **75189734390**
Option 3 ID : **75189734391**
Option 4 ID : **75189734392**
Status : **Answered**
Chosen Option : **3**

Q.73 In a parallelogram ABCD, if m∠A = (3x + 16)° and m∠B = (2x + 24)°, then find m∠C.

Ans

  ✗ 1. 56°

  ✗ 2. 28°

  ✔ 3. 100°

  ✗ 4. 110°

Question ID : **75189713470**
Option 1 ID : **75189753878**
Option 2 ID : **75189753877**
Option 3 ID : **75189753879**
Option 4 ID : **75189753880**
Status : **Answered**
Chosen Option : **3**

Q.74 As of April 2022, to avail the scheme of Permanent Residency Status to Foreign Investors, how much investment a foreign investor will have to make within 18 months?

Ans

  ✗ 1. ₹15 crore

  ✔ 2. ₹10 crore

  ✗ 3. ₹25 crore

  ✗ 4. ₹20 crore

Question ID : **75189712464**
Option 1 ID : **75189749853**
Option 2 ID : **75189749854**
Option 3 ID : **75189749856**
Option 4 ID : **75189749855**
Status : **Not Answered**
Chosen Option : **--**

Q.75 A solid metallic cuboid of dimensions 9 cm × 32 cm × 48 cm is melted and recast into 8 identical cubes. What is the sum of the lateral surface areas (in cm²) of 5 such cubes?

Ans
✗ 1. 4320
✗ 2. 3600
✓ 3. 2880
✗ 4. 2160

Question ID : 75189712653
Option 1 ID : 75189750612
Option 2 ID : 75189750611
Option 3 ID : 75189750610
Option 4 ID : 75189750609
Status : **Answered**
Chosen Option : **3**

Q.76

Find the value of $\sqrt{\dfrac{(0.05)^2+(0.15)^2+(0.053)^2}{0.005^2+0.015^2+0.0053^2}}$.

Ans
✗ 1. 10^4
✓ 2. 10
✗ 3. 10^2
✗ 4. 10^3

Question ID : 75189712903
Option 1 ID : 75189751612
Option 2 ID : 75189751609
Option 3 ID : 75189751610
Option 4 ID : 75189751611
Status : **Marked For Review**
Chosen Option : **2**

Q.77 A current flowing through a 10 ohm resistor per second in which 360 J energy is produced is _____.

Ans
✗ 1. 90 amp
✓ 2. 6 amp
✗ 3. 3600 amp
✗ 4. 36 amp

Question ID : 75189713831
Option 1 ID : 75189755321
Option 2 ID : 75189755323
Option 3 ID : 75189755322
Option 4 ID : 75189755324
Status : **Answered**
Chosen Option : **3**

Q.78 In which of the pairs of numbers below none of the two numbers is a prime number, but the two numbers are co-primes?

Ans
✗ 1. (21, 35)

✔ 2. (8, 25)

✗ 3. (11, 17)

✗ 4. (19, 27)

Question ID : **75189712919**
Option 1 ID : **75189751675**
Option 2 ID : **75189751674**
Option 3 ID : **75189751673**
Option 4 ID : **75189751676**
Status : **Answered**
Chosen Option : **2**

Q.79 Under which Article of the Constitution of India do we consider Hindi in Devanagari script as an official language of India?

Ans
✗ 1. Article 347

✗ 2. Article 351

✔ 3. Article 343

✗ 4. Article 336

Question ID : **75189713997**
Option 1 ID : **75189755986**
Option 2 ID : **75189755987**
Option 3 ID : **75189755988**
Option 4 ID : **75189755985**
Status : **Answered**
Chosen Option : **3**

Q.80 Identify the correct definition of Long Run Marginal Cost (LRMC) from the following.

Ans
✔ 1. The change in total cost per unit of change in output.

✗ 2. The change in average expense per unit of change in output.

✗ 3. The change in marginal cost per unit of change in input.

✗ 4. The change in total expense per unit of change in input.

Question ID : **75189712487**
Option 1 ID : **75189749948**
Option 2 ID : **75189749946**
Option 3 ID : **75189749947**
Option 4 ID : **75189749945**
Status : **Not Attempted and Marked For Review**
Chosen Option : **--**

Q.81 Why were noble gases NOT included in the Newlands law of octaves?

Ans ✔ 1. These elements were not known at that time.

✘ 2. These elements do not follow the law of octaves.

✘ 3. These elements do not follow the octet rule.

✘ 4. These elements are inert.

Question ID : **75189712815**
Option 1 ID : **75189751259**
Option 2 ID : **75189751258**
Option 3 ID : **75189751257**
Option 4 ID : **75189751260**
Status : **Answered**
Chosen Option : **1**

Q.82 Read the given statement and conclusions carefully. Assuming that the information given in the statement is true, decide which of the given conclusions logically follow(s) from the statement.

Statement:

Infants born alive before 37 weeks of pregnancy are called Preterm babies.

Conclusions:

I. Babies born before 37 weeks of pregnancy have issues in adjusting properly in the world outside their mother's womb and need to be in a Neonatal Intensive Care Unit for durations varying from a few days to several weeks.

II. Infants born after 37 weeks of pregnancy are called full term babies and are completely healthy.

Ans ✘ 1. Only conclusion II follows

✘ 2. Both the conclusions follow

✘ 3. Only conclusion I follows

✔ 4. Neither conclusion I nor II follows

Question ID : **75189714978**
Option 1 ID : **75189759910**
Option 2 ID : **75189759911**
Option 3 ID : **75189759909**
Option 4 ID : **75189759912**
Status : **Answered**
Chosen Option : **3**

Q.83 Which of the following alphanumeric-clusters will replace the question mark (?) in the given series to make it logically complete?

SU5, UR7, WO11, YL13, ?

Ans ✔ 1. AI17

✘ 2. AO17

✘ 3. AH19

✘ 4. AN15

Question ID : **7518979745**
Option 1 ID : **75189738979**
Option 2 ID : **75189738977**
Option 3 ID : **75189738980**
Option 4 ID : **75189738978**
Status : **Answered**
Chosen Option : **1**

Q.84 A certain number of people are sitting in a row, facing north. R sits third to the right of P. Q is an immediate neighbour of both R and M. M is not an immediate neighbour of P. Exactly four people sit between M and T.
If no other person is sitting in the row, what is the total number of people seated in the row?

Ans ✗ 1. 12

✗ 2. 9

✔ 3. 11

✗ 4. 10

Question ID : **75189714904**
Option 1 ID : **75189759616**
Option 2 ID : **75189759613**
Option 3 ID : **75189759615**
Option 4 ID : **75189759614**
Status : **Answered**
Chosen Option : **3**

Q.85 The value of the discriminant of the quadratic equation $9x + 2x^2 = 5$ is:

Ans ✗ 1. 41

✗ 2. 184

✗ 3. −176

✔ 4. 121

Question ID : **75189713386**
Option 1 ID : **75189753541**
Option 2 ID : **75189753542**
Option 3 ID : **75189753543**
Option 4 ID : **75189753544**
Status : **Answered**
Chosen Option : **2**

Q.86 Refer to the following letter series and answer the question.
M O V E O I F V A S K C O S D V I N S D I N I S
How many such consonants are there each of which is immediately preceded by a vowel and also immediately followed by a vowel?

Ans ✗ 1. One

✗ 2. Three

✔ 3. Two

✗ 4. Four

Question ID : **7518978253**
Option 1 ID : **75189733009**
Option 2 ID : **75189733011**
Option 3 ID : **75189733010**
Option 4 ID : **75189733012**
Status : **Answered**
Chosen Option : **3**

Q.87 Hema is the mother of Deeksha. 10 years ago, the age of Hema was 3 times the then age of Deeksha. After 10 years, Hema will be twice as old as Deeksha will then be. Find the present age (in years) of Deeksha.

Ans
- ✗ 1. 20
- ✗ 2. 15
- ✗ 3. 50
- ✔ 4. 30

Question ID : 75189713371
Option 1 ID : 75189753481
Option 2 ID : 75189753483
Option 3 ID : 75189753484
Option 4 ID : 75189753482
Status : **Answered**
Chosen Option : **4**

Q.88 Which of the following is NOT an animal-produced nitrogenous waste product?

Ans
- ✗ 1. Uric acid
- ✗ 2. Ammonia
- ✔ 3. Lactic acid
- ✗ 4. Urea

Question ID : 7518974405
Option 1 ID : 75189717618
Option 2 ID : 75189717619
Option 3 ID : 75189717620
Option 4 ID : 75189717617
Status : **Answered**
Chosen Option : **3**

Q.89 Which group of elements constitutes a triad?

Ans
- ✗ 1. N(14.0), P(30.9), As(74.9)
- ✗ 2. B(10.8), Al(27.0), Ga(69.7)
- ✗ 3. F(19.0), Cl(35.5), Br(79.9)
- ✔ 4. Li(6.9), Na(23.0), K(39.1)

Question ID : 7518979674
Option 1 ID : 75189738696
Option 2 ID : 75189738694
Option 3 ID : 75189738693
Option 4 ID : 75189738695
Status : **Answered**
Chosen Option : **4**

Q.90 In the case of reflection from a concave mirror, if the object distance is 5 cm and the image distance is 2 cm then magnification produced by the mirror is:

Ans
✔ 1. −2/5
✘ 2. 2/5
✘ 3. −5/2
✘ 4. 5/2

Question ID : **75189714090**
Option 1 ID : **75189756357**
Option 2 ID : **75189756358**
Option 3 ID : **75189756359**
Option 4 ID : **75189756360**
Status : **Answered**
Chosen Option : **1**

Q.91 Which of the following is considering as balanced food in itself and good for adolescents?

Ans
✔ 1. Milk
✘ 2. Pulses
✘ 3. Vegetables
✘ 4. Roti/Rice

Question ID : **75189714833**
Option 1 ID : **75189759331**
Option 2 ID : **75189759330**
Option 3 ID : **75189759332**
Option 4 ID : **75189759329**
Status : **Answered**
Chosen Option : **4**

Q.92 Which of the following teams won the Indian Premier League (IPL) 2022?

Ans
✘ 1. Lucknow Super Giants
✘ 2. Royal Challengers Bangalore
✘ 3. Rajasthan Royals
✔ 4. Gujarat Titans

Question ID : **75189712537**
Option 1 ID : **75189750147**
Option 2 ID : **75189750148**
Option 3 ID : **75189750146**
Option 4 ID : **75189750145**
Status : **Answered**
Chosen Option : **4**

Q.93 Three statements are given followed by two conclusions numbered I and II. You have to take the statements to be true, even if they seem to be at variance with commonly known facts and decide which of the conclusions logically follow(s) from the statements.

Statements:
Some Baskets are Canes.
Some Canes are Woods.
All Woods are Forests.

Conclusions:
(I) All Canes are Forests.
(II) Some Baskets are Woods.

Ans

✗ 1. Only conclusion (I) follows.

✔ 2. Neither conclusion (I) nor (II) follows.

✗ 3. Both conclusions (I) and (II) follow.

✗ 4. Only conclusion (II) follows.

Q.94 Study the given series and answer the question that follows (all numbers are single digit numbers only).

4 7 2 1 8 6 9 1 2 5 3 1 9 4 7 1 8 3 5 6 8 2 7 1 8 5 6 9

How many such even digits are there each of which is immediately preceded by a perfect square and immediately followed by an odd digit (NOTE: 1 is also a perfect square)?

Ans

✗ 1. Five

✗ 2. Two

✗ 3. Three

✔ 4. Four

Q.95 The device which converts chemical energy to electrical energy is called _____.

Ans

✗ 1. resistor

✔ 2. voltaic cell

✗ 3. voltmeter

✗ 4. ammeter

Q.96 Which of the following pathways correctly shows the transportation of water from soil to leaves?

Ans ✗ 1.
Soil → root cortex → root hairs → xylem of roots → phloem of roots → phloem of stem → phloem of leaf

✗ 2.
Soil → root hairs → xylem of roots → phloem of roots → xylem of leaf

✗ 3.
Soil → root hairs → root cortex → xylem of roots → phloem of leaf

✔ 4.
Soil → root hairs → root cortex → xylem of roots → xylem of stem → xylem of leaf

Question ID : 7518977804
Option 1 ID : 75189731214
Option 2 ID : 75189731215
Option 3 ID : 75189731216
Option 4 ID : 75189731213
Status : **Answered**
Chosen Option : **4**

Q.97 20, 38, 40 and x are in proportion. Find the value of x.

Ans ✗ 1. 66

✔ 2. 76

✗ 3. 70

✗ 4. 74

Question ID : 75189712949
Option 1 ID : 75189751793
Option 2 ID : 75189751796
Option 3 ID : 75189751794
Option 4 ID : 75189751795
Status : **Answered**
Chosen Option : **2**

Q.98 The value of $\sin 30° - \cos 60° + \tan 45° + \operatorname{cosec} 60°$ is:

Ans ✗ 1. $\dfrac{3 - 2\sqrt{3}}{3}$

✔ 2. $\dfrac{3 + 2\sqrt{3}}{3}$

✗ 3. $\dfrac{2\sqrt{3}}{3}$

✗ 4. 2

Question ID : 75189713416
Option 1 ID : 75189753661
Option 2 ID : 75189753662
Option 3 ID : 75189753663
Option 4 ID : 75189753664
Status : **Answered**
Chosen Option : **2**

Q.99 Electric motor works on the principle of _____.It converts _____ energy into _____ energy.

Ans

✔ 1. Fleming's Left Hand Rule, electrical, mechanical

✘ 2. Fleming's Right Hand Rule, mechanical, electrical

✘ 3. Fleming's Left Hand Rule, mechanical, electrical

✘ 4. Fleming's Right Hand Rule, electrical, mechanical

Question ID : **75189715109**
Option 1 ID : **75189760434**
Option 2 ID : **75189760435**
Option 3 ID : **75189760436**
Option 4 ID : **75189760433**
Status : **Answered**
Chosen Option : **1**

Q.100 Under Article 243 S of the Constitution of India, there is a provision for constitution of Ward Committees within the territorial area of a Municipality having a population of _____ or more.

Ans

✘ 1. four lakh

✘ 2. one lakh

✔ 3. three lakh

✘ 4. two lakh

Question ID : **75189712433**
Option 1 ID : **75189749732**
Option 2 ID : **75189749729**
Option 3 ID : **75189749731**
Option 4 ID : **75189749730**
Status : **Answered**
Chosen Option : **3**