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सी ई एन आर आर सी - ०१/२०१९ - **CEN RRC - 01/2019**

Test Date	22/08/2022
Test Time	5:00 PM - 6:30 PM
Subject	Level 1

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

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

Section : **Level 1**

Q.1 In this question, a statement is followed by two conclusions. Which of the two conclusions is/are true with respect to the statement?

Statement: $A = F \geq S > H < Z > R = G$

Conclusions:

I. $S < G$

II. $S \geq A$

Ans ✗ 1. Only conclusion II is true

✔ 2. Neither conclusion I nor II is true

✗ 3. Both conclusions I and II are true

✗ 4. Only conclusion I is true

Question ID : **7518974962**
Option 1 ID : **75189719846**
Option 2 ID : **75189719848**
Option 3 ID : **75189719847**
Option 4 ID : **75189719845**
Status : **Answered**
Chosen Option : **2**

Q.2 The component of white light that deviates the most on passing through a glass prism is:

Ans ✗ 1. green

✔ 2. violet

✗ 3. blue

✗ 4. red

Question ID : **7518975434**
Option 1 ID : **75189721736**
Option 2 ID : **75189721734**
Option 3 ID : **75189721735**
Option 4 ID : **75189721733**
Status : **Marked For F**
Chosen Option : **2**

Q.3 Who is the Chief Justice of India as on March 2022?

Ans ✔ 1. NV Ramana

✘ 2. Uday Umesh Lalit

✘ 3. Ranjan Gogoi

✘ 4. DY Chandrachud

Question ID : **7518974300**
Option 1 ID : **75189717199**
Option 2 ID : **75189717198**
Option 3 ID : **75189717200**
Option 4 ID : **75189717197**
Status : **Answered**
Chosen Option : **1**

Q.4 In human males, why are testes present outside the abdominal cavity in a pouch called scrotum?

Ans ✘ 1. It secretes hormones for sperm formation

✔ 2.
It helps in maintaining temperature 2-3 degrees lower than the body for sperm formation

✘ 3.
It is richly supplied by blood vessels needed for sperm formation

✘ 4.
It helps in maintaining low pressure than the body for sperm formation

Question ID : **7518974613**
Option 1 ID : **75189718452**
Option 2 ID : **75189718450**
Option 3 ID : **75189718449**
Option 4 ID : **75189718451**
Status : **Answered**
Chosen Option : **2**

Q.5 A shopkeeper bought 12 dozen eggs at the rate of ₹5 per egg. 12 eggs broke in transit. He sold the remaining eggs at the rate of ₹6 per egg. Find his percentage of profit.

Ans ✘ 1. 15%

✘ 2. 5%

✘ 3. 20%

✔ 4. 10%

Question ID : **7518975854**
Option 1 ID : **75189723416**
Option 2 ID : **75189723413**
Option 3 ID : **75189723415**
Option 4 ID : **75189723414**
Status : **Answered**
Chosen Option : **4**

Q.6 Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons.
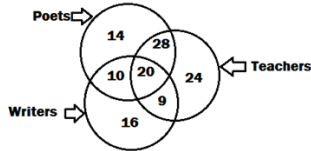
Which of the following statements is correct on the basis of the above diagram?

Ans ✔ 1.

The number of teachers who are both writers and poets is 20.

✘ 2. The number of poets who are also teachers is 44.

✘ 3.

The number of writers who are neither teachers nor poets is 10.

✘ 4.

The number of poets who are also teachers but not writers is 48.

Q.7 A certain number of people are sitting in a row, facing north. D is to the immediate right of H. A is third to the left of C. Only three people sit between H and L. L is fifth to the right of C. D is at the extreme right end of the row. If no other person is sitting in the row, what is the total number of persons seated?

Ans ✘ 1. 16

✘ 2. 18

✘ 3. 12

✔ 4. 14

Q.8 What is the aim of Digital Government Mission launched by the Ministry of Electronics and Information Technology in January 2022?

Ans ✘ 1. To help workers to meet their financial needs

✔ 2.

To have services proactively anticipate citizens' needs before they approach the services.

✘ 3. To provide welfare service meant for girl child and women

✘ 4.

To provide employment information to youth living in rural areas

Q.9 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, 62, 7)

(8, 188, 12)

Ans ✗ 1. 10, 181, 9

✗ 2. 6, 117, 19

✗ 3. 11, 390, 13

✓ 4. 7, 114, 9

Q.10 Hariteja walked to his school at a speed of 4 km/h and returned on a scooter at 20 km/h. His average speed during the two-way journey is:

Ans ✓ 1. $\frac{20}{3}$ km/h

✗ 2. 8 km/h

✗ 3. 6 km/h

✗ 4. 12 km/h

Q.11 In the given letter-cluster pairs, the first letter-cluster is related to the second letter-cluster following a certain logic.
Study the given pairs carefully, and from the given options, select the pair that follows the same logic.

HCM : MHR

FET : KJY

Ans ✗ 1. PRT : TPS

✓ 2. UPJ: ZUO

✗ 3. UFL : LKU

✗ 4. GHK : HKJ

Q.12 A concave mirror having focal length of magnitude 20 cm forms a real image at a distance of 60 cm from it. The object distance (in cm) is:

Ans
  ✗ 1. −15

  ✓ 2. −30

  ✗ 3. +30

  ✗ 4. +15

Question ID : **7518975383**
Option 1 ID : **75189721531**
Option 2 ID : **75189721529**
Option 3 ID : **75189721530**
Option 4 ID : **75189721532**
Status : **Answered**
Chosen Option : **3**

Q.13 Which Article of the Constitution of India enshrines one of the Directive Principles of State Policy which lays down that 'the State shall take steps to organise village panchayats and endow them with such powers and authority as may be necessary to enable them to function as units of self-government'?

Ans
  ✗ 1. Article 32

  ✓ 2. Article 40

  ✗ 3. Article 37

  ✗ 4. Article 48

Question ID : **7518974107**
Option 1 ID : **75189716425**
Option 2 ID : **75189716427**
Option 3 ID : **75189716426**
Option 4 ID : **75189716428**
Status : **Answered**
Chosen Option : **2**

Q.14 The Gua mines of Jharkhand is associated with which of the following minerals?

Ans
  ✓ 1. Iron-ore

  ✗ 2. Zinc

  ✗ 3. Bauxite

  ✗ 4. Coal

Question ID : **7518976491**
Option 1 ID : **75189725961**
Option 2 ID : **75189725963**
Option 3 ID : **75189725964**
Option 4 ID : **75189725962**
Status : **Not Answered**
Chosen Option : **--**

Q.15 Find the value of $\sqrt{\dfrac{0.030625}{0.001225}}$.

Ans ✗ 1. 25

✗ 2. 15

✗ 3. 20

✔ 4. 5

Q.16 Which of the following triads is NOT a Dobereiner's triad?

(i)   Li, Na, K

(ii)   Ca, Sr, Ba

(iii)   N, P, Sb

(iv)   Cl, Br, I

Ans ✗ 1. Only i

✔ 2. Only iii

✗ 3. Only ii

✗ 4. Only iv

Q.17 Ramesh invested ₹1,232 at 5% p.a. rate of simple interest in a bank. What amount will he get after 3 years?

Ans ✔ 1. ₹1,416.80

✗ 2. ₹2,145.80

✗ 3. ₹1,848.80

✗ 4. ₹1,285.80

Q.18 The monthly incomes of two friends Anuj and Mathew, are in the ratio 5 : 7 and each of them saves ₹10,000 every month. If the ratio of their expenditure is 2 : 3, find the income of Anuj.

Ans
✗ 1. ₹20,000

✗ 2. ₹15,000

✔ 3. ₹50,000

✗ 4. ₹5,000

Question ID : 7518975600
Option 1 ID : 75189722398
Option 2 ID : 75189722397
Option 3 ID : 75189722399
Option 4 ID : 75189722400
Status : **Answered**
Chosen Option : **3**

Q.19 Which of the following is a quadratic equation whose roots are $\frac{7}{3}$ and $\frac{12}{5}$?

Ans
✔ 1. $15x^2 - 71x + 84 = 0$

✗ 2. $15x^2 - 70x + 84 = 0$

✗ 3. $x^2 - 71x + 84 = 0$

✗ 4. $15x^2 - 72x + 84 = 0$

Question ID : 7518975735
Option 1 ID : 75189722940
Option 2 ID : 75189722937
Option 3 ID : 75189722939
Option 4 ID : 75189722938
Status : **Not Answered**
Chosen Option : **--**

Q.20 What is the name of the sacred text of Christianity which consists of two parts: the Old Testament which is essentially the Hebrew text of the time of Jesus; And the New Testament that includes writings about Jesus Christ and the early church?

Ans
✔ 1. Bible

✗ 2. Knowing God Jesus

✗ 3. Book of Psalms

✗ 4. De doctrina Christiana

Question ID : 7518974016
Option 1 ID : 75189716061
Option 2 ID : 75189716063
Option 3 ID : 75189716062
Option 4 ID : 75189716064
Status : **Not Answered**
Chosen Option : **--**

Q.21 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:

Some purses are keys.

All lockers are keys.

All keys are pins.

Conclusions:

I. Some pins are purses.

II. No pin is a purse.

Ans

✖ 1. Only conclusion II follows

✖ 2. Either conclusion I or II follows

✔ 3. Only conclusion I follows

✖ 4. Both conclusions I and II follow

Question ID : **7518975170**
Option 1 ID : **75189720678**
Option 2 ID : **75189720680**
Option 3 ID : **75189720677**
Option 4 ID : **75189720679**
Status : **Answered**
Chosen Option : **3**

Q.22

Kokborok is one of the state languages of Tripura. On 19th January 2022, Tripura celebrated which Kokborok day?

Ans

✖ 1. 55th

✖ 2. 24th

✖ 3. 34th

✔ 4. 44th

Question ID : **7518973819**
Option 1 ID : **75189715276**
Option 2 ID : **75189715273**
Option 3 ID : **75189715274**
Option 4 ID : **75189715275**
Status : **Not Answered**
Chosen Option : **--**

Q.23 Which of the following will be the next member of the homologous series of hexene?

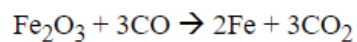**Ans** ✔ 1. Heptene

✘ 2. Pentane

✘ 3. Pentene

✘ 4. Heptane

Q.24 L, M, N, O, P, Q and R, are sitting in a straight row, facing north. Only three people sit between Q and N. M and O are immediate neighbours. O is at the extreme right end of the row. R is at the immediate left of N. Who is at the fifth position from the left end of the row?

Ans ✘ 1. M

✘ 2. P

✘ 3. L

✔ 4. N

Q.25 In the given reaction, _____ acts as a reducing agent.

$$Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$$

Ans ✘ 1. Fe_2O_3

✘ 2. CO_2

✘ 3. Fe

✔ 4. CO

Q.26 Few birds (One each of Orange, Yellow, Black, Green, Grey, Red colour and three White coloured) were sitting in a row facing north. The black bird was an immediate neighbour of both, the red and the grey bird. The yellow bird was sitting to the immediate right of the green bird. Only three birds were sitting between the orange and the red bird and all these three birds were white. The yellow bird sat third to the right of the black bird. Which colour birds were sitting at the leftmost and rightmost ends of the row respectively?

Ans ✗ 1. White (Left) and Orange (Right)

✗ 2. Grey (Left) and Red (Right)

✗ 3. Yellow (Left) and White (Right)

✔ 4. Orange (Left) and Yellow (Right)

Question ID : **7518974740**
Option 1 ID : **75189718958**
Option 2 ID : **75189718960**
Option 3 ID : **75189718957**
Option 4 ID : **75189718959**
Status : **Not Answered**
Chosen Option : **--**

Q.27 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:

Some beds are tables.

Some tables are cupboards.

Some cupboards are chairs.

Conclusions:

I. Some chairs are beds.

II. Some beds are cupboards.

Ans ✗ 1. Only conclusion II follows

✗ 2. Both conclusions I and II follow

✗ 3. Only conclusion I follows

✔ 4. Neither conclusion I nor II follows

Question ID : **7518975173**
Option 1 ID : **75189720690**
Option 2 ID : **75189720691**
Option 3 ID : **75189720689**
Option 4 ID : **75189720692**
Status : **Answered**
Chosen Option : **4**

Q.28 The following chart shows the percentage of various products sold from an electronics goods shop during the year 2021.

The total number of products sold from the shop during 2021 is16800. Study the chart and answer the question.
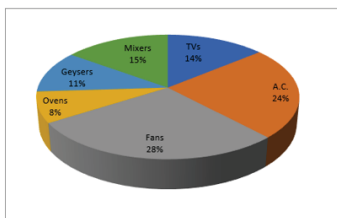
How many more Fans have been sold from the shop in comparison to Ovens during 2021?

Ans ✗ 1. 3566

✗ 2. 3200

✗ 3. 3420

✔ 4. 3360

Question ID : **7518975339**
Option 1 ID : **75189721356**
Option 2 ID : **75189721353**
Option 3 ID : **75189721355**
Option 4 ID : **75189721354**
Status : **Answered**
Chosen Option : **4**

Q.29 What is the correct order of metallic character of the following metals?

Ans ✗ 1. Ba < Cs < Mg < Na

✗ 2. Cs < Ba < Na < Mg

✔ 3. Mg < Na < Ba < Cs

✗ 4. Na < Mg < Cs < Ba

Question ID : **7518973737**
Option 1 ID : **75189714948**
Option 2 ID : **75189714947**
Option 3 ID : **75189714945**
Option 4 ID : **75189714946**
Status : **Marked For Review**
Chosen Option : **4**

Q.30 Calculate the total current in the circuit given below:
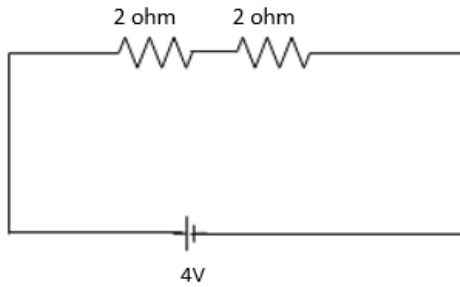
Ans
- ✅ 1. 1A
- ❌ 2. 8A
- ❌ 3. 2A
- ❌ 4. 4A

Question ID : 7518975472
Option 1 ID : 75189721885
Option 2 ID : 75189721888
Option 3 ID : 75189721886
Option 4 ID : 75189721887
Status : **Answered**
Chosen Option : **1**

Q.31 Mr. Sharma, Mr. Gupta and Ms Sinha invested ₹4,000, ₹8,000 and ₹6,000, respectively, in a business. Mr. Sharma left after 6 months. If after 8 months, there was a gain of ₹34,000, then what will be the share of Mr. Gupta?

Ans
- ❌ 1. ₹14,000
- ❌ 2. ₹20,000
- ❌ 3. ₹12,000
- ✅ 4. ₹16,000

Question ID : 7518975603
Option 1 ID : 75189722410
Option 2 ID : 75189722412
Option 3 ID : 75189722409
Option 4 ID : 75189722411
Status : **Answered**
Chosen Option : **4**

Q.32 What is the name of the consumer awareness programme started by the Department of Consumer Affairs in 2022?

Ans
- ❌ 1. Consumer Behaviour Week
- ❌ 2. Consumer Awareness Week
- ✅ 3. Consumer Empowerment Week
- ❌ 4. Consumer Rights Week

Question ID : 7518974037
Option 1 ID : 75189716147
Option 2 ID : 75189716146
Option 3 ID : 75189716145
Option 4 ID : 75189716148
Status : **Not Answere**

Q.33 In some women, oviducts are blocked. These women are unable to bear babies because sperms cannot reach the egg for fertilisation. The doctors advise IVF (invitro fertilisation) in such cases. Below are given some steps of the procedure. Select the INCORRECT step.

Ans ✅ 1.

Zygote is kept outside and development takes place in a test tube

❌ 2. Zygote is formed and after a week placed in the uterus

❌ 3. Fusion of egg and sperms is done outside the body

❌ 4. Complete development takes place in the uterus

Question ID : 7518974616
Option 1 ID : 75189718464
Option 2 ID : 75189718462
Option 3 ID : 75189718461
Option 4 ID : 75189718463
Status : **Answered**
Chosen Option : **3**

Q.34 L, G, K, P, H and Z live on eight different floors of the same multistorey building with 2 floors being vacant. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 8. H lives on floor No. 1, K on No. 2, and P on No. 8. One immediate floor above and one immediate floor below Z are vacant. G's floor is immediately above the floor on which L lives and G's floor is also immediately below P's floor. Who lives on floor No. 4?

Ans ✅ 1. Z

❌ 2. G

❌ 3. H

❌ 4. L

Question ID : **7518974726**
Option 1 ID : **75189718902**
Option 2 ID : **75189718904**
Option 3 ID : **75189718903**
Option 4 ID : **75189718901**
Status : **Answered**
Chosen Option : **1**

Q.35 The value of $\dfrac{1}{(1+\cot^2 x)^2} + \dfrac{\tan^2 x}{(1+\tan^2 x)^2} + \dfrac{1}{1+\tan^2 x}$ is:

Ans ✅ 1. 1

❌ 2. 4

❌ 3. 5

❌ 4. 3

Question ID : **7518976387**
Option 1 ID : **75189725548**
Option 2 ID : **75189725546**
Option 3 ID : **75189725545**
Option 4 ID : **75189725547**
Status : **Answered**
Chosen Option : **1**

Q.36 Which of the following options states the different ways of excretion in plants?

Ans
✗ 1. Only transpiration and diffusion

✗ 2. Only transpiration and storage

✓ 3. Transpiration, diffusion and storage

✗ 4. Only diffusion and storage

Question ID : **7518974560**
Option 1 ID : **75189718237**
Option 2 ID : **75189718238**
Option 3 ID : **75189718240**
Option 4 ID : **75189718239**
Status : **Answered**
Chosen Option : **3**

Q.37 Which of the following number will replace the question mark (?) and complete the given number series?

45, 52, 61, 73, 90, ?

Ans
✗ 1. 115

✓ 2. 114

✗ 3. 112

✗ 4. 116

Question ID : **7518975064**
Option 1 ID : **75189720256**
Option 2 ID : **75189720255**
Option 3 ID : **75189720254**
Option 4 ID : **75189720253**
Status : **Answered**
Chosen Option : **2**

Q.38

Saga Dawa festival is celebrated in which of the following Indian states?

Ans
✓ 1. Arunachal Pradesh

✗ 2. Kerala

✗ 3. Madhya Pradesh

✗ 4. Uttar Pradesh

Question ID : **7518973810**
Option 1 ID : **75189715238**
Option 2 ID : **75189715237**
Option 3 ID : **75189715239**
Option 4 ID : **75189715240**
Status : **Not Answered**
Chosen Option : **--**

Q.39 Which of the following is NOT a property of similar triangles?

Ans ✗ 1.
Ratio of corresponding sides = Ratio of corresponding medians

✗ 2.
Ratio of corresponding sides = Ratio of corresponding perimeters

✗ 3.
Ratio of corresponding sides = Ratio of corresponding altitudes

✓ 4. Ratio of any two angles = Ratio of any two medians

Question ID : **7518975989**
Option 1 ID : **75189723954**
Option 2 ID : **75189723953**
Option 3 ID : **75189723955**
Option 4 ID : **75189723956**
Status : **Answered**
Chosen Option : **4**

Q.40 What will come in place of the question mark (?) in the following equation if '+' and '÷' are interchanged and also '×' and '−' are interchanged?

$42 + 7 \div 24 \times 6 - 3 = ?$

Ans ✗ 1. 14

✓ 2. 12

✗ 3. 13

✗ 4. 10

Question ID : **7518975325**
Option 1 ID : **75189721300**
Option 2 ID : **75189721298**
Option 3 ID : **75189721299**
Option 4 ID : **75189721297**
Status : **Answered**
Chosen Option : **2**

Q.41 In the reaction $ZnO + C \rightarrow Zn + CO$:

Ans ✗ 1. Zn does not undergo redox reaction.

✗ 2. ZnO is oxidized to Zn

✓ 3. ZnO is reduced to Zn

✗ 4. carbon is reduced to CO

Question ID : **7518973613**
Option 1 ID : **75189714452**
Option 2 ID : **75189714451**
Option 3 ID : **75189714450**
Option 4 ID : **75189714449**
Status : **Answered**
Chosen Option : **3**

Q.42 The sum of the digits in a two-digit number is 9. If the value of the number is 6 more than 5 times the digit in the ones' place, then the number is:

Ans

✗ 1. 45

✗ 2. 18

✗ 3. 27

✔ 4. 36

Question ID : **7518976325**
Option 1 ID : **75189725297**
Option 2 ID : **75189725298**
Option 3 ID : **75189725299**
Option 4 ID : **75189725300**
Status : **Answered**
Chosen Option : **4**

Q.43 The equation $x^2 - 6x + 9 = 0$ can be written as:

Ans

✗ 1. $(x + 3)^2 = 0$

✔ 2. $(x - 3)^2 = 0$

✗ 3. $(x - 2)(x - 3)^2 = 0$

✗ 4. $(x - 2)(x - 3) = 0$

Question ID : **7518975948**
Option 1 ID : **75189723789**
Option 2 ID : **75189723792**
Option 3 ID : **75189723791**
Option 4 ID : **75189723790**
Status : **Answered**
Chosen Option : **2**

Q.44 Each vowel in the word OPTICAL is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. Which of the following letters will appear twice in the group of letters thus formed?

Ans

✗ 1. O

✗ 2. P

✗ 3. J

✔ 4. B

Question ID : **7518974794**
Option 1 ID : **75189719174**
Option 2 ID : **75189719173**
Option 3 ID : **75189719176**
Option 4 ID : **75189719175**
Status : **Answered**
Chosen Option : **4**

Q.45 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(11, 64, 3)

(17, 36, 11)

Ans

✗ 1. (26, 56, 8)

✗ 2. (21, 144, 32)

✔ 3. (24, 169, 11)

✗ 4. (30, 49, 11)

Q.46 A magnet, when moved near a coil, produces an induced potential difference in the coil. What happens when we increase the speed of the magnet near the coil?

Ans

✗ 1. The induced current in the coil remains the same.

✗ 2. The induced potential difference remains the same.

✗ 3. The induced potential difference in the coil decreases.

✔ 4. The induced potential difference in the coil increases.

Q.47 In the given figure line l is parallel to m and p is the transversal. Find the measure of the angle 1.
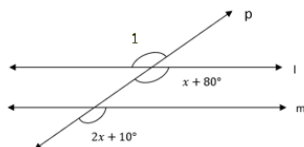
Ans

✗ 1. 140°

✗ 2. 300°

✔ 3. 150°

✗ 4. 200°

Q.48 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	4	6	7	$	#	@	2
Codes	H	F	M	E	T	P	Z

Conditions:

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

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

(iii)   If the fourth element is a symbol and the sixth element is also a symbol, both these elements (the fourth and the sixth elements) are to be coded as N.

Question: 4 6 $ 7 4 # @ 2

Ans   ✘ 1. H F E M H T P Z

     ✔ 2. Z F E M H T P H

     ✘ 3. Z F E N H N P H

     ✘ 4. Z H E M F T P H

Q.49 The product of two numbers is 1472 and their HCF is 8. Find their LCM.

Ans   ✘ 1. 176

     ✔ 2. 184

     ✘ 3. 144

     ✘ 4. 108

Q.50 Each vowel in the word INCURABLE is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. How many vowels will be there in the new word thus formed?

Ans   ✔ 1. 1

     ✘ 2. 4

     ✘ 3. 3

     ✘ 4. 2

Q.51 Which of the following is/are useful effort(s) for sustainability of resources?

   a. Switching off unnecessary lights and fans

   b. Using lift instead of stairs

   c. Repairing leaking taps for conserving water

   d. Using empty containers to store things

   e. Going to school by your own car instead of cycling

Ans ✗ 1. Only e

   ✗ 2. Only b

   ✔ 3. a, c and d

   ✗ 4. b and e

Q.52 Shyam walked 10 m towards the north and then turned left and walked 11 m. He then turned right and walked for 13 m, turned right again and walked for 10 m. He then turned left and walked 14 m, and then finally turned right and walked 1 m. How far is Shyam from the starting point?

(All turns are 90 degree turns only)

Ans ✔ 1. 37 m

   ✗ 2. 34 m

   ✗ 3. 33 m

   ✗ 4. 35 m

Q.53 Study the following line graph carefully and answer the question.

India's Rice Exports
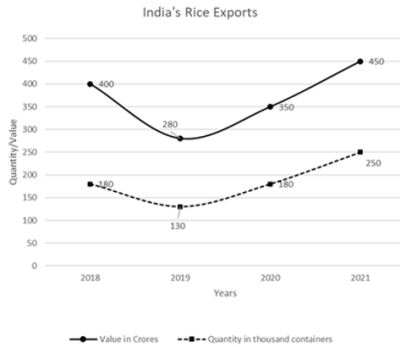
Supposing if in 2020, the average value of goods sold per container was same as that of 2019, then what would be the new approximate value of total exports (in crores) in 2020 if number of containers in 2020 remains unchanged?

Ans
✗ 1. 346

✗ 2. 555

✗ 3. 500

✔ 4. 387

Q.54 Which of the following statements in Economics is NOT correct?

Ans
✗ 1.
Total cost is the sum of the total variable cost and the total fixed cost.

✗ 2. Average fixed cost curve is downward sloping.

✗ 3.
Short run marginal cost, average variable cost and short run average cost curves are 'U'-shaped.

✔ 4. In the long run, all inputs are fixed.

Q.55 An electric heater rated 1000 W and an electric geyser rated 2000 W are used for 4 hours daily. The energy consumed in 10 days (in kWh) is:

Ans

✗ 1. 1200

✗ 2. 12000

✓ 3. 120

✗ 4. 12

Question ID : **7518975507**
Option 1 ID : **75189722027**
Option 2 ID : **75189722028**
Option 3 ID : **75189722026**
Option 4 ID : **75189722025**
Status : **Answered**
Chosen Option : **3**

Q.56 Read the given statement and conclusions carefully. Assuming that the information given in the statements is true, decide which of the given conclusions logically follow(s) from the statement.

Statement:

Team A students lost 14 out of 20 games they played last season.

Conclusions:

I. Team A students are more interested in academics than sports.

II. Team A students are unlucky.

Ans

✗ 1. Only conclusion II follows

✗ 2. Both conclusions I and II follow

✓ 3. Neither conclusion I nor II follows

✗ 4. Only conclusion I follows

Question ID : **7518976413**
Option 1 ID : **75189725650**
Option 2 ID : **75189725652**
Option 3 ID : **75189725651**
Option 4 ID : **75189725649**
Status : **Answered**
Chosen Option : **3**

Q.57 In a certain code language, 'CURRY' is written as 'BSONT' and 'KHAKI' is written as 'JFXGD'. How will 'BHEEM' be written in that language?

Ans

✗ 1. CFBBH

✗ 2. AEBBI

✓ 3. AFBAH

✗ 4. AFBBI

Question ID : **7518974828**
Option 1 ID : **75189719310**
Option 2 ID : **75189719311**
Option 3 ID : **75189719312**
Option 4 ID : **75189719309**
Status : **Answered**
Chosen Option : **3**

Q.58 Consider the below statements and identify the correct answer.

Statement-I: Ionic compounds are generally brittle and break into pieces when pressure is applied.

Statement-II: Ionic compounds have low melting and boiling points.

Ans ✘ 1. Both the statements are true.

✔ 2. Statement-I is true, and Statement-II is false.

✘ 3. Both the statements are false.

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

Q.59 The sum of the first 8 prime numbers divided by 7 is equal to_____

Ans ✘ 1. 13

✔ 2. 11

✘ 3. 10

✘ 4. 14

Q.60 Some features of alveoli are mentioned below. Select the INCORRECT option.

Ans ✘ 1. Have extensive network of blood vessels

✘ 2. Are thin walled

✘ 3. Have large surface area

✔ 4. Are finger-like structures

Q.61 Simplify: $\frac{3}{2}x^2 + 2x - \frac{3}{2} + \frac{x^2}{2} - 6x + \frac{1}{2}$.

Ans

✓ 1. $2x^2 - 4x - 1$

✗ 2. $2x^2 + 4x - 1$

✗ 3. $2x^2 + 4x + 1$

✗ 4. $2x^2 - 4x + 1$

Q.62 How much angular distance will be covered by the minute hand of a correct clock in a period of 3 hours 10 minutes?

Ans

✓ 1. 1140°

✗ 2. 1202°

✗ 3. 1000°

✗ 4. 978°

Q.63

The value of $\dfrac{(4x^2 - 9y^2)^3 + (9y^2 - 49z^2)^3 + (49z^2 - 4x^2)^3}{(2x - 3y)^3 + (3y - 7z)^3 + (7z - 2x)^3}$ is:

Ans

✓ 1. $(2x + 3y)(3y + 7z)(7z + 2x)$

✗ 2. $42xyz \ (2x + 3y)(3y + 7z)(7z + 2x)$

✗ 3. $42xyz \ (2x - 3y)(3y - 7z)(7z - 2x)$

✗ 4. $(2x - 3y)(3y - 7z)(7z - 2x)$

Q.64 A and B together complete a work in 8 days. If B is 25% more efficient than A, then in how many days will A alone complete the same work?

Ans
✗ 1. 12 days

✓ 2. 18 days

✗ 3. 24 days

✗ 4. 6 days

Q.65 What are the two signs to be interchanged for making the following equation correct?

$$[\{(44 + 36) - (4 \times 4)\} \div (1 - 5)] \times 2 = 8$$

Ans
✗ 1. $+, \times$

✗ 2. $+, \div$

✓ 3. $+, -$

✗ 4. $\times, \div$

Q.66 In which part of the leaves do massive amounts of gaseous exchange take place during respiration?

Ans
✗ 1. Chlorophyll

✗ 2. Thylakoid

✗ 3. Grana

✓ 4. Stomata

Q.67 Which of the following interchanges of signs would make the given equation correct?

$5 \times 4 \div 10 - 8 + 2 = 8$

Ans
✗ 1. $+, \div$

✗ 2. $\times, \div$

✗ 3. $+, \times$

✓ 4. $+, -$

Q.68 Consider the statements given below and identify the correct answer.

Statement-I: Washing soda is produced from sodium chloride.

Statement-II: It attacks dirt and grease to form water soluble products, which are then washed away on rinsing with water.

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

✓ 2. Both the statements are true.

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

✗ 4. Both the statements are false.

Q.69 The conversion of ethanol to ethanoic acid is an example of which of the following reactions?

Ans
✓ 1. Oxidation reaction

✗ 2. Combustion reaction

✗ 3. Substitution reaction

✗ 4. Addition reaction

Q.70 An electric heater is rated 2200 W at 220 V. The minimum rating of the fuse wire to be connected to the device is:

Ans

✗ 1. 22 A

✓ 2. 10 A

✗ 3. 20 A

✗ 4. 5 A

Question ID : **7518975504**
Option 1 ID : **75189722016**
Option 2 ID : **75189722014**
Option 3 ID : **75189722015**
Option 4 ID : **75189722013**
Status : **Answered**
Chosen Option : **2**

Q.71 Study the given letter series and answer the question that follows.

Q I O M J E S T R U L E B A C K J M N

How many consonants are immediately preceded by a consonant and immediately followed by a vowel?

Ans

✗ 1. 3

✗ 2. 4

✗ 3. 1

✓ 4. 2

Question ID : **7518974801**
Option 1 ID : **75189719203**
Option 2 ID : **75189719204**
Option 3 ID : **75189719201**
Option 4 ID : **75189719202**
Status : **Answered**
Chosen Option : **4**

Q.72 A cuboidal block, 12 cm by 24 cm by 30 cm, is cut up into an exact number of identical cubes. The least possible number of such cubes is:

Ans

✓ 1. 40

✗ 2. 45

✗ 3. 55

✗ 4. 50

Question ID : **7518976369**
Option 1 ID : **75189725476**
Option 2 ID : **75189725475**
Option 3 ID : **75189725473**
Option 4 ID : **75189725474**
Status : **Marked For Review**
Chosen Option : **1**

Q.73 In January 2022, which village became the first open-defecation free (ODF) Plus village of Mizoram?

Ans

✗ 1. Khanpui

✗ 2. Selam

✗ 3. Dulte

✓ 4. South Maubuang

Question ID : **7518973791**
Option 1 ID : **75189715161**
Option 2 ID : **75189715162**
Option 3 ID : **75189715164**
Option 4 ID : **75189715163**
Status : **Answered**
Chosen Option : **2**

Q.74 If $3^{x-2} + 3^x = 7290$, then the value of x is:

Ans

✗ 1. 9

✓ 2. 8

✗ 3. 6

✗ 4. 7

Question ID : **7518976224**
Option 1 ID : **75189724896**
Option 2 ID : **75189724895**
Option 3 ID : **75189724893**
Option 4 ID : **75189724894**
Status : **Answered**
Chosen Option : **2**

Q.75 Article 12 to 35 contained in Part _____ of the Constitution deal with Fundamental Rights.

Ans

✗ 1. II

✗ 2. I

✗ 3. IV

✓ 4. III

Question ID : **7518974097**
Option 1 ID : **75189716386**
Option 2 ID : **75189716385**
Option 3 ID : **75189716388**
Option 4 ID : **75189716387**
Status : **Answered**
Chosen Option : **4**

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Q.76 Ozone depletion in the stratosphere layer of the atmosphere is responsible for which of the following

Ans

✔ 1. Increase of UV radiations reaching Earth's surface

✘ 2. Cooling of Earth's atmosphere

✘ 3. Increase in greenhouse effect

✘ 4. Increase in infrared radiations in the troposphere

Question ID : **7518974670**
Option 1 ID : **75189718677**
Option 2 ID : **75189718679**
Option 3 ID : **75189718678**
Option 4 ID : **75189718680**
Status : **Answered**
Chosen Option : **3**

Q.77 Which of the following numbers will replace the question mark (?) in the given series?

16, 18, 27, 55, 120,?

Ans

✔ 1. 246

✘ 2. 230

✘ 3. 510

✘ 4. 240

Question ID : **7518975292**
Option 1 ID : **75189721166**
Option 2 ID : **75189721165**
Option 3 ID : **75189721168**
Option 4 ID : **75189721167**
Status : **Answered**
Chosen Option : **1**

Q.78 How many private banks were nationalised by Indra Gandhi during the Fourth Five Year Plan in 1969?

Ans

✔ 1. 14

✘ 2. 24

✘ 3. 17

✘ 4. 10

Question ID : **7518973882**
Option 1 ID : **75189715525**
Option 2 ID : **75189715526**
Option 3 ID : **75189715528**
Option 4 ID : **75189715527**
Status : **Answered**
Chosen Option : **1**

Q.79 If the radius of a sphere is increased by 2 cm, then its surface area increases by 704 cm^2. Using $\pi = \frac{22}{7}$, find the radius of the sphere before the increase.

Ans

✗ 1. 14 cm

✗ 2. 15 cm

✗ 3. 16 cm

✔ 4. 13 cm

Question ID : **7518976364**
Option 1 ID : **75189725454**
Option 2 ID : **75189725455**
Option 3 ID : **75189725456**
Option 4 ID : **75189725453**
Status : **Not Answered**
Chosen Option : **--**

Q.80 In January 2022, the Zoological Survey of India (ZSI) underlined some green rules for living root bridges of which state to get the UNESCO world heritage site tag?

Ans

✗ 1. Kerala

✗ 2. Haryana

✔ 3. Meghalaya

✗ 4. Rajasthan

Question ID : **7518973901**
Option 1 ID : **75189715601**
Option 2 ID : **75189715604**
Option 3 ID : **75189715602**
Option 4 ID : **75189715603**
Status : **Not Answered**
Chosen Option : **--**

Q.81 The S.I unit of induced potential difference is:

Ans

✔ 1. V

✗ 2. mV

✗ 3. A

✗ 4. mA

Question ID : **7518975536**
Option 1 ID : **75189722143**
Option 2 ID : **75189722144**
Option 3 ID : **75189722141**
Option 4 ID : **75189722142**
Status : **Answered**
Chosen Option : **1**

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Q.82 Monazite ore is found in the sands of which of the following states of India?

Ans ✗ 1. Odisha

✗ 2. Rajasthan

✗ 3. Punjab

✓ 4. Kerala

Question ID : **7518974267**
Option 1 ID : **75189717068**
Option 2 ID : **75189717065**
Option 3 ID : **75189717066**
Option 4 ID : **75189717067**
Status : **Answered**
Chosen Option : **2**

Q.83 Chauri Chaura incident occurred in which year?

Ans ✗ 1. 1921

✓ 2. 1922

✗ 3. 1920

✗ 4. 1919

Question ID : **7518974167**
Option 1 ID : **75189716665**
Option 2 ID : **75189716666**
Option 3 ID : **75189716667**
Option 4 ID : **75189716668**
Status : **Answered**
Chosen Option : **2**

Q.84 P started from a point facing north and then turned right and ran for 24 m east, turned left and walked for 26 m. He then turned left and first ran for 24 m and then walked for 6 m and then turned right and walked for 6 m, turned right again, and ran for 30 m. How much distance did he cover walking, and in which direction is he facing now?

(All turns are 90 degree turns only)

Ans ✓ 1. 38 m, East

✗ 2. 126 m, West

✗ 3. 38 m, West

✗ 4. 126 m, East

Question ID : **7518974847**
Option 1 ID : **75189719386**
Option 2 ID : **75189719387**
Option 3 ID : **75189719385**
Option 4 ID : **75189719388**
Status : **Not Answered**
Chosen Option : **--**

Q.85 A convex lens produces a magnification of −3 for an object placed at 1.5 m from the lens. Find the image distance (with correct sign).

Ans
✗ 1. −4.5 m

✗ 2. −0.5 m

✗ 3. 0.5 m

✓ 4. 4.5 m

Q.86 Find x, if the median is 28.5.

CI	0-10	10-20	20-30	30-40	40-50	50-60
F	5	X	20	15	7	5

Ans
✗ 1. 2

✗ 2. 4

✓ 3. 8

✗ 4. 7

Q.87 Find the value of $7 + \{4 + 3 \ of \ 4 - (5 + 3 - 6 \div 2)\}$.

Ans
✓ 1. 18

✗ 2. 15

✗ 3. 21

✗ 4. 17

Q.88 Two pipes A and B can fill a cistern in 36 minutes and 48 minutes, respectively. Both the pipes are opened at the same time and pipe B is closed after some time. If the cistern gets filled in half an hour, then after how many minutes was pipe B closed?

Ans ✔ 1. 8

✘ 2. 5

✘ 3. 10

✘ 4. 9

Question ID : **7518976106**
Option 1 ID : **75189724422**
Option 2 ID : **75189724421**
Option 3 ID : **75189724424**
Option 4 ID : **75189724423**
Status : **Answered**
Chosen Option : **1**

Q.89 Who launched India's first 'One Health Consortium'?

Ans ✘ 1. Ministry of Home Affairs

✔ 2. Ministry of Science and Technology

✘ 3. Ministry of Health and Family Welfare

✘ 4. Ministry of Education

Question ID : **7518974149**
Option 1 ID : **75189716595**
Option 2 ID : **75189716593**
Option 3 ID : **75189716594**
Option 4 ID : **75189716596**
Status : **Answered**
Chosen Option : **3**

Q.90 Some features of the circulatory system in humans are mentioned below. Select the INCORRECT option.

Ans ✔ 1. Hypertension is caused by constriction of veins

✘ 2. Platelets help in clotting of blood

✘ 3. Lymph is also called tissue fluid

✘ 4. Capillaries join to form veins

Question ID : **7518974596**
Option 1 ID : **75189718383**
Option 2 ID : **75189718381**
Option 3 ID : **75189718384**
Option 4 ID : **75189718382**
Status : **Not Answered**
Chosen Option : **--**

Q.91 _____ is the money that is available from an individual's salary after he/she pays local, state, and federal taxes.

Ans

✗ 1. Personal Income

✔ 2. Disposable Income

✗ 3. Per Capita Income

✗ 4. National Income

Question ID : 7518974043
Option 1 ID : 75189716170
Option 2 ID : 75189716169
Option 3 ID : 75189716172
Option 4 ID : 75189716171
Status : **Answered**
Chosen Option : **3**

Q.92 A spherical mirror converges a beam of light, at a given point on the principal axis. Which of the following statement(s) about the mirror is/are true?

(a) The mirror used is concave

(b) The mirror has positive focal length

(c) The point of convergence is the principal focus of the mirror

Ans

✗ 1. Only (a)

✔ 2. Both (a) and (c)

✗ 3. Only (b)

✗ 4. Both (a) and (b)

Question ID : 7518975365
Option 1 ID : 75189721457
Option 2 ID : 75189721459
Option 3 ID : 75189721458
Option 4 ID : 75189721460
Status : **Answered**
Chosen Option : **2**

Q.93 In January 2022, India's first para-badminton academy was launched in which state?

Ans

✗ 1. Haryana

✗ 2. Punjab

✔ 3. Uttar Pradesh

✗ 4. Jharkhand

Question ID : 7518973754
Option 1 ID : 75189715013
Option 2 ID : 75189715016
Option 3 ID : 75189715014
Option 4 ID : 75189715015
Status : **Answered**
Chosen Option : **3**

Q.94 A boat starting from point P goes downstream to point Q in 3 hours and returns back from point Q to the point P in 4 hours. If the speed of the water is 3 km/h, find the speed of the boat in still water.

Ans
✗ 1. 20 km/h
✗ 2. 12 km/h
✗ 3. 32km/h
✓ 4. 21 km/h

Q.95 A statement is given, followed by four conclusions given in the options. Find out which conclusion is true based on the given statement.

Statement: $G < D < R = T > Y > Q = H$

Ans
✗ 1. $H > T$
✗ 2. $R < G$
✗ 3. $G = T$
✓ 4. $D < T$

Q.96 Which of the following alphanumeric clusters will replace the question mark (?) in the series to make it logically complete?

ACE 9, BDF 12, GIK 27, HJL 30, ? , NPR 48, SUW 63

Ans
✗ 1. MNO 42
✓ 2. MOQ 45
✗ 3. NOP 42
✗ 4. OPQ 48

Q.97 Eight persons, A, B, C, D, E, F, G and H, are sitting around a square table facing the centre of the table. Four of them are sitting at the corners while the other four are sitting at the exact centre of the sides of the table. C is sitting at one of the corners. F is to the immediate right of C. Only H is sitting between C and G. D is sitting at one of the corners. A is not sitting at any of the corners. E is to the immediate left of B. E is the immediate neighbour of F. Which two persons are sitting towards the left of G but to the right of B?

Ans
✗ 1. A and F

✗ 2. C and H

✗ 3. A and E

✔ 4. A and D

Q.98 As of July 2022, what is the required age bracket of a subscriber to the Atal Pension Yojana?

Ans
✗ 1. 16-25 years

✗ 2. 14-35 years

✗ 3. 21-60 years

✔ 4. 18-40 years

Q.99 Where was the 2nd National Para Shooting Championship 2022 between 21 and 25 March 2022 held?

Ans
✗ 1. Chandigarh

✔ 2. New Delhi

✗ 3. Lakshadweep

✗ 4. Puducherry

Q.100 A cosmetic product is available at 75% discount. If the shopkeeper charges ₹1,874, what is its marked price?

Ans
✗ 1. ₹5,674

✔ 2. ₹7,496

✗ 3. ₹6,145

✗ 4. ₹8,342

Question ID : **7518975637**
Option 1 ID : **75189722548**
Option 2 ID : **75189722546**
Option 3 ID : **75189722547**
Option 4 ID : **75189722545**
Status : **Answered**
Chosen Option : **2**

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