Exam Date	13/12/2022
Exam Time	2:30 PM - 3:30 PM
Subject	Combined Graduate Level Examination Tier I 2022

Section : **General Intelligence and Reasoning**

Q.1 Three different positions of the same dice are shown. Find the number on the face opposite the face showing '1'.
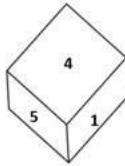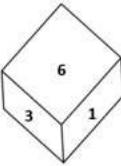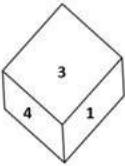

Figure 1   Figure 2   Figure 3

Ans
✘ 1. 4

✘ 2. 3

✔ 3. 2

✘ 4. 6

Question ID : 26433069441
Status : **Answered**
Chosen Option : **3**

Q.2 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some P are K.
II. No K is T.
Conclusion:
I. All P are T.
II. All T are K.
III. Some P are not T.

Ans
✘ 1. Only conclusion II follows

✔ 2. Only conclusion III follows

✘ 3. All conclusion follows

✘ 4. Both conclusions II and III follows

Question ID : 264330104930
Status : **Answered**
Chosen Option : **2**

Q.3 In a certain code language, 'FROST' is written as '156' and 'CANDLE' is written as '78'. How will 'SCREAM' be written in that language?

Ans
- ✗ 1. 115
- ✗ 2. 89
- ✓ 3. 118
- ✗ 4. 59

Q.4 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row - 12, 7, 32
Second row - 17, 13, 33
Third row - 14, 8, ?
(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)

Ans
- ✓ 1. 38
- ✗ 2. 35
- ✗ 3. 43
- ✗ 4. 42

Q.5 P + Q means 'P is the father of Q'
P – Q means 'P is the mother of Q'
P * Q means 'P is the sister of Q'
P % Q means 'P is the brother of Q'
If A – B % C * D + E, then how is A related to E?

Ans
- ✗ 1. Mother
- ✗ 2. Father's sister
- ✗ 3. Sister
- ✓ 4. Father's mother

Q.6 By Interchanging the given two numbers which of the following equation will be not correct?
9 and 6

Ans
- ✗ 1. 7 + 6 × 4 ÷ 9 – 8 = 5
- ✗ 2. 6 × 8 – 9 ÷ 3 + 5 = 75
- ✓ 3. 9 × 7 + 4 ÷ 1 – 6 = 38
- ✗ 4. 7 × 6 ÷ 3 + 9 – 8 = 19

Q.7 Which of the following calendars will be the same as the calendar for the year 2003?

Ans ✔ 1. 2014

✖ 2. 2013

✖ 3. 2012

✖ 4. 2011

Question ID : **26433093115**
Status : **Not Answered**
Chosen Option : **--**

Q.8 Which of the following letter clusters will replace the question mark (?) and complete the following letter cluster series?
DW, FU, HS, JQ, LO, ?

Ans ✖ 1. NN

✖ 2. MN

✔ 3. NM

✖ 4. NO

Question ID : **26433066007**
Status : **Answered**
Chosen Option : **3**

Q.9 If S − T means that S is the mother of T, S × T means that S is the father of T, S + T means that S is the sister of T, then which of the following expression shows that P is the mother of R?

Ans ✖ 1. Q − P + R

✔ 2. P − Q + R

✖ 3. P × Q + R

✖ 4. R + Q − P

Question ID : **264330104965**
Status : **Answered**
Chosen Option : **2**

Q.10 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.

M

4 e r d n K L t |

N

Ans ✔ 1. ꜄ ⅃ Ж ᴎ b ɿ ɘ ᔰ

✖ 2. ꜰ ⅃ Ж ᴎ b ɿ ɘ ᔰ

✖ 3. ꜰ ⅃ Ж ᴎ b ɿ ɘ ᔰ

✖ 4. ꜄ ⅃ Ж ᴎ b ɿ ɘ ᔰ

Question ID : **26433070251**
Status : **Answered**
Chosen Option : **1**

Q.11 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Flock : Birds :: Swarm : ?

Ans ✗ 1. Rain

✓ 2. Bees

✗ 3. Trees

✗ 4. Flowers

Q.12 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
8 : 48 :: ? : 143 :: 15 : 195

Ans ✓ 1. 13

✗ 2. 17

✗ 3. 19

✗ 4. 11

Q.13 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
• **All toys are Lego.**
• **No block is Lego.**
• **Some puzzles are blocks.**
Conclusions:
I. Some Lego are puzzles.
II. No Lego is a block.
III. Some toys are blocks.

Ans ✓ 1. Only conclusion II follows

✗ 2. Only conclusion I follows

✗ 3. Only conclusion I and II follow

✗ 4. Only conclusion I and III follow

Q.14 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(5, 2, 23)
(6, 2, 34)
(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)

Ans ✗ 1. (3, 3, 3)

✗ 2. (3, 2, 9)

✗ 3. (3, 5, 11)

✓ 4. (3, 2, 7)

Question ID : **26433087184**
Status : **Not Answered**
Chosen Option : **--**

Q.15 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Drama : Stage :: Trial : ?

Ans ✗ 1. Police station

✗ 2. Jail

✗ 3. Platform

✓ 4. Court

Question ID : **26433067819**
Status : **Answered**
Chosen Option : **4**

Q.16 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
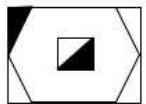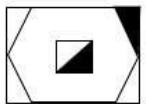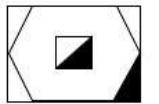
Ans ✗ 1. OQS

✗ 2. JLN

✗ 3. HJL

✓ 4. MOP

Question ID : **26433069001**
Status : **Answered**
Chosen Option : **4**
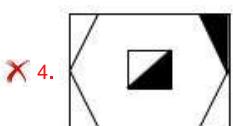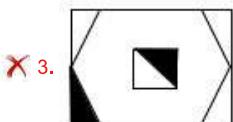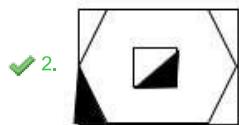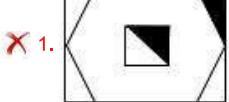
Q.17 Select the figure that will replace the question mark (?) in the following figure series.

Ans

✗ 1.

✓ 2.

✗ 3.

✗ 4.

Q.18 In a certain code language, 'YOU' is written as '71' and 'TOO' is written as '60'. How will 'SIT' be written in that language?

Ans ✗ 1. 90

✗ 2. 96

✓ 3. 58

✗ 4. 94

Q.19 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, CTFZ, ELIV, GDLR, ?

Ans ✗ 1. ITOQ

✗ 2. QMQR

✗ 3. IMOQ

✓ 4. IVON

Q.20 In the following question, four number pairs are given. In each pair the number on left side of (–) is related to the number of the right side of (–) with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (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)

Ans ✗ 1. 10 – 100

✔ 2. 8 – 62

✗ 3. 6 – 36

✗ 4. 4 – 16

Q.21 Which of the following numbers will replace the question mark (?) in the given series?
31, ?, 40, 49, 61, 76
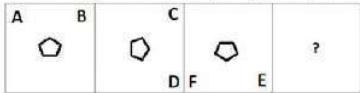
Ans ✗ 1. 36

✔ 2. 34

✗ 3. 35

✗ 4. 37

Q.22 Select the figure from among the given options that can replace the question mark (?) in the following series.
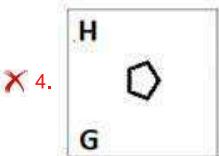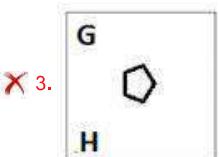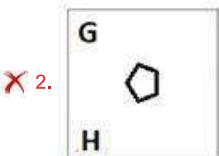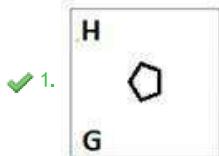
Ans

✔ 1.

✗ 2.

✗ 3.

✗ 4.
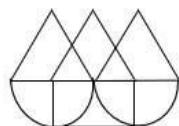
Q.23 Select the option figure which is embedded in the given figure (rotation is NOT allowed).

Ans

✗ 1.

✔ 2.

✗ 3.

✗ 4.

Q.24 By Interchanging the given two numbers which of the following equation will be correct?
2 and 8

Ans

✗ 1. $8 \div 1 + 4 \times 2 - 3 = 18$

✗ 2. $7 \times 2 + 6 \div 3 - 8 = 60$

✗ 3. $2 \times 4 - 8 + 6 \div 3 = 33$

✔ 4. $8 \times 4 + 6 - 2 \div 1 = 6$

Q.25 Which two signs should be interchanged to make the given equation correct?
$95 * 5 + 19 \div 2 - 21 = 36$

Ans

✔ 1. ÷ and *

✗ 2. + and −

✗ 3. ÷ and −

✗ 4. + and *

Section : **General Awareness**

Q.1 _____ is the only continent through which the tropic of cancer, the equator and the tropic of capricorn passes.

Ans

✗ 1. North America

✔ 2. Africa

✗ 3. Europe

✗ 4. Asia

Q.2 Which of the following is NOT correct about the jurisdiction of the High Court?

Ans
- ✗ 1. It controls the subordinate courts within its jurisdiction.
- ✗ 2. It has the power of judicial review.
- ✓ 3. It provides advisory opinion to the President of India.
- ✗ 4. It has writ jurisdiction.

Question ID : **26433069896**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Who released a special stamp entitled 'Wheat Revolution' in July 1968?

Ans
- ✗ 1. Mahatma Gandhi
- ✗ 2. Jawaharlal Nehru
- ✓ 3. Indira Gandhi
- ✗ 4. Motilal Nehru

Question ID : **26433065455**
Status : **Not Answered**
Chosen Option : **--**

Q.4 Who among the following ruled in India between 1266 and 1287?

Ans
- ✗ 1. Qutub-ud-din-Aybak
- ✗ 2. Aram Shah
- ✗ 3. Shams-ud-din-Iltutmish
- ✓ 4. Ghiyasuddin Balban

Question ID : **264330105400**
Status : **Not Answered**
Chosen Option : **--**

Q.5 Which of the following is NOT mentioned as a Fundamental Right in the Constitution of India?

Ans
- ✗ 1. Right to education
- ✓ 2. Right to property
- ✗ 3. Right to freedom
- ✗ 4. Right against exploitation

Question ID : **26433086797**
Status : **Answered**
Chosen Option : **2**

Q.6 In February 2022, Maharashtra government announced 'Hope Express' initiative to _____.

Ans
- ✓ 1. prevent cancer
- ✗ 2. improve drainage system
- ✗ 3. manage industrial waste
- ✗ 4. improve air quality

Question ID : **264330105285**
Status : **Answered**
Chosen Option : **4**

Q.7 Who among the following was awarded the National Nritya Shiromani Award 2022?

Ans
  ✗ 1. Radha Reddy

  ✓ 2. Aparna Satheesan

  ✗ 3. Usha Srinivasan

  ✗ 4. Deepa Sashindran

> Question ID : **26433090711**
> Status : **Not Answered**
> Chosen Option : **--**

Q.8 Which food requires a longer small intestine to digest food?

Ans
  ✗ 1. Lamb

  ✗ 2. Eggs

  ✓ 3. Grass

  ✗ 4. Chicken

> Question ID : **26433091484**
> Status : **Answered**
> Chosen Option : **3**

Q.9 Yellow card in badminton indicates:

Ans
  ✗ 1. fault for misconduct

  ✗ 2. suspension for misconduct

  ✓ 3. warning for misconduct

  ✗ 4. disqualified for misconduct

> Question ID : **26433059424**
> Status : **Not Answered**
> Chosen Option : **--**

Q.10 The national Archives of India came up in the _____.

Ans
  ✗ 1. 1930s

  ✗ 2. 1910s

  ✓ 3. 1920s

  ✗ 4. 1900s

> Question ID : **264330105543**
> Status : **Not Answered**
> Chosen Option : **--**

Q.11 Personal disposable income (PDI) can be defined as _____.

Ans
  ✗ 1. PI + Personal tax payments +Non-tax payments

  ✗ 2. PI + Personal tax payments – Non-tax payments

  ✓ 3. PI – Personal tax payments – Non-tax payments

  ✗ 4. PI – Personal tax payments + Non-tax payments

> Question ID : **264330105394**
> Status : **Not Answered**
> Chosen Option : **--**

Q.12 In India the 1st census was held in the year _____.

Ans   ✔ 1. 1872

    ✘ 2. 1860

    ✘ 3. 1900

    ✘ 4. 1920

Question ID : **264330105490**

Status : **Answered**

Chosen Option : **4**

Q.13 The Kunbi dance is performed by the tribal community of _____.

Ans   ✘ 1. Sikkim

    ✘ 2. Tamil Nadu

    ✘ 3. Uttar Pradesh

    ✔ 4. Goa

Question ID : **26433064293**

Status : **Not Answered**

Chosen Option : **--**

Q.14 A cyclone is known by different names in different parts of the world. In Philippines it is called as _____.

Ans   ✘ 1. willy-willy

    ✘ 2. hurricane

    ✔ 3. typhoon

    ✘ 4. mango shower

Question ID : **26433086625**

Status : **Not Answered**

Chosen Option : **--**

Q.15 Who among the following defeated Mughal emperor Humayun at Chausa?

Ans   ✘ 1. Mirza Hakim

    ✘ 2. Safavid Shah

    ✔ 3. Sher Khan

    ✘ 4. Mirza Kamran

Question ID : **264330105434**

Status : **Answered**

Chosen Option : **3**

Q.16 Prime Minister Narendra Modi said, "Seema Darshan Project adds a new dimension to the tourism sector". This project will boost tourism in _____.

Ans   ✔ 1. Gujarat

    ✘ 2. Uttar Pradesh

    ✘ 3. Rajasthan

    ✘ 4. Jammu and Kashmir

Question ID : **264330105277**

Status : **Answered**

Chosen Option : **4**

Q.17 _____ has become the first city in the country to get a processed steel slag (industrial waste) road.

Ans   ✔ 1. Surat

✘ 2. Chennai

✘ 3. Kanpur

✘ 4. Shimla

Q.18 Which country hosted the first ever Commonwealth Games in 1930?

Ans   ✘ 1. Australia

✘ 2. New Zealand

✘ 3. England

✔ 4. Canada

Q.19 The theory of plate tectonics proposes that the earth's lithosphere is divided into _____ major and some minor plates.

Ans   ✔ 1. 7

✘ 2. 6

✘ 3. 12

✘ 4. 16

Q.20 Why does one get cramps after sudden physical activity?

Ans   ✘ 1. The build-up of hydrochloric acid in our muscles during sudden activity causes cramps.

✘ 2. The pepsin enzyme releases chemicals that lead to cramps.

✘ 3. The oxygen molecules breaks down.

✔ 4. The build-up of lactic acid in our muscles during sudden activity causes cramps.

Q.21 Match the elements in column A with the element group they belong to, in column B

Column-A (Element)	Column-B (Group of element in the periodic table)
i. Na	a. Alkali metal
ii. Cu	b. Alkaline earth metal
iii. Mg	c. Transition metal
iv. He	d. Zero group element

Ans ✘ 1. i-a, ii-d, iii-b, iv-c

✘ 2.   i-a, ii-b, iii-c, iv-d

✔ 3. i-a, ii-c, iii-b, iv-d

✘ 4. i-d, ii-a, iii-b, iv-c

Q.22 Abdul Karim Khan and Abdul Wahid Khan were the founders of the _____ gharana.

Ans ✘ 1. Jaipur - Atrauli

✘ 2. Gwalior

✘ 3. Agra

✔ 4. Kirana

Q.23 Who among the following has the credit to invent and create a new style of 'Bharatanatyam'?

Ans ✘ 1. Yamini Krishnamurthy

✔ 2. Dr Padma Subrahmanyam

✘ 3. Rukmini Devi Arundale

✘ 4. Chinta Ravi Bala Krishna

Q.24 Puhar or Kaveripattinam, was the port of which of the following dynasty?

Ans ✘ 1. Cheras

✔ 2. Cholas

✘ 3. Pandyas

✘ 4. Vakatakas

Q.25 National Dairy Research Institute is located at:

Ans   ✅ 1. Karnal

     ❌ 2. Anand

     ❌ 3. Lucknow

     ❌ 4. Palampur

Section : **Quantitative Aptitude**

Q.1 The HCF of three numbers 72, 108 and 2010 is:

Ans   ❌ 1. 18

     ✅ 2. 6

     ❌ 3. 12

     ❌ 4. 5

Q.2 If $\sec\theta + \dfrac{1}{\cos\theta} = 2$, find the value of $\sec^{55}\theta + \dfrac{1}{\sec^{55}\theta}$.

Ans   ✅ 1. 2

     ❌ 2. 0

     ❌ 3. 1

     ❌ 4. 55
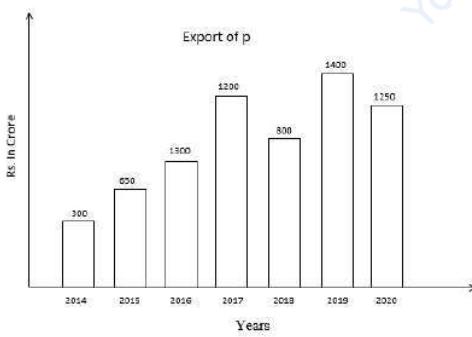
Q.3 The following bar chat shows the export of a certain commodity P in crore rupees between 2014 and 2020.

For how many years, there was less export of P than the average export of P?

Ans   ❌ 1. 2

     ❌ 2. 1

     ❌ 3. 4

     ✅ 4. 3

Q.4 The cost price of an article is ₹800. After allowing a discount of 10%, a gain of 12.5% was made. The marked price of the article is:

Ans

✗ 1. ₹1,300

✗ 2. ₹1,200

✔ 3. ₹1,000

✗ 4. ₹1,100

Q.5 The side of an equilateral triangle is 9 cm. What is the radius of the circle circumscribing this equilateral triangle?

Ans

✗ 1. $2\sqrt{3}$ cm

✗ 2. $5\sqrt{3}$ cm

✗ 3. $4\sqrt{3}$ cm

✔ 4. $3\sqrt{3}$ cm

Q.6 Shiva's monthly salary is Rs.75,000. He spends Rs.12,000 on household items, Rs.14,000 on LIC and mutual funds, Rs.15,000 on his children's education, and keeps Rs.10,000 for miscellaneous expenses. His savings are Rs.21,000 per month and he donates the rest of the amount to an orphanage. The percentage of his income that he donates is:

Ans

✗ 1. 3%

✗ 2. 6%

✗ 3. 8%

✔ 4. 4%
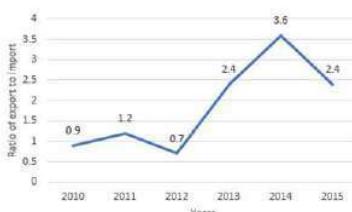
Q.7 The following line graph displays the ratio of exports to imports (in terms of money in ₹ crores) of company A from 2010 to 2015.

Study the graph carefully and answer the question based on the given line graph.

The line graph displaying the ratio of Exports to Imports (in terms of money in ₹ crores) of company A from 2010 to 2015

In how many years, the export of company A was more than the company's import?

Ans ✔ 1. Four

✘ 2. Two

✘ 3. Six

✘ 4. Three

Q.8 If $\tan 40^0 = \alpha$, then find $\dfrac{\tan 320^0 - \tan 310^0}{1 + \tan 320^0 . \tan 310^0}$.

Ans ✘ 1. $\dfrac{1-\alpha^2}{\alpha}$

✘ 2. $\dfrac{1+\alpha^2}{2\alpha}$

✔ 3. $\dfrac{1-\alpha^2}{2\alpha}$

✘ 4. $\dfrac{1+\alpha^2}{\alpha}$

Q.9 The table given below shows the foreign trade by two countries in 5 different years.

Years	Country L	Country M
Y1	250	125
Y2	230	185
Y3	155	275
Y4	145	255
Y5	115	170

What is the total foreign trade by country M in all the 5 years?

Ans ✔ 1. 1010

✘ 2. 1215

✘ 3. 505

✘ 4. 1005

Q.10 A train travels at a speed of 18 m/s in the first 5 minutes, covers 7.5 km in the next 10 minutes and covers 12 km in another 10 minutes. What is its average speed (in km/h, rounded off to 1 decimal place) for the entire journey?

Ans ✅ 1. 59.8

❌ 2. 71.2

❌ 3. 45.7

❌ 4. 64.6

Q.11

If, $\frac{r}{13} + \frac{13}{r} = 1$ then the value of r^3 is:

Ans ❌ 1. -2157

❌ 2. 2197

❌ 3. 2157

✅ 4. -2197

Q.12 If $\frac{a}{b} + \frac{b}{a} = -1$ and $a - b = 2$, then the value of $a^3 - b^3$ is:

Ans ✅ 1. 0

❌ 2. $\frac{1}{2}$

❌ 3. 1

❌ 4. -1

Q.13 A person borrowed ₹2,000 at 5% annual simple interest repayable in 3 equal annual installments. What will be the annual installment?

Ans ✅ 1. ₹730$\frac{10}{63}$

❌ 2. ₹840$\frac{9}{61}$

❌ 3. ₹640$\frac{11}{63}$

❌ 4. ₹250$\frac{10}{63}$

Q.14 Two persons A and B working separately can sanitise a building in 6 and 10 hours, respectively. They work in stretches of one hour alternately. If A begins at 8 a.m., then when will the work be finished?

Ans

✗ 1. $9\frac{1}{3}$ h

✔ 2. $7\frac{1}{3}$ h

✗ 3. $6\frac{1}{3}$ h

✗ 4. $8\frac{1}{3}$ h

Question ID : 26433080200
Status : **Not Answered**
Chosen Option : **--**

Q.15 The area of two similar triangles are 324 cm^2 and 289 cm^2, respectively. What is the ratio of their corresponding altitudes?

Ans

✗ 1. $\dfrac{17}{18}$

✗ 2. $\dfrac{17}{19}$

✗ 3. $\dfrac{19}{17}$
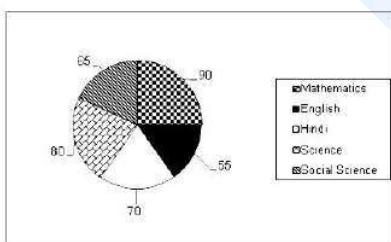
✔ 4. $\dfrac{18}{17}$

Question ID : 26433066331
Status : **Not Answered**
Chosen Option : **--**

Q.16 The pie-chart shows marks of a student in different subjects out of 100.

The marks scored in Hindi and Mathematics are more than the marks scored in English and Science by:

Ans

✗ 1. 35

✔ 2. 25

✗ 3. 20

✗ 4. 30

Question ID : 26433079970
Status : **Answered**
Chosen Option : **2**

Q.17 Train A running at 81 km/h takes 72 sec to overtake train B, when both the trains are running in the same direction, but it takes 36 sec to cross each other if the trains are running in the opposite direction. If the length of train B is 600 metres, then find the length of train A. (in metres)

Ans
  ✗ 1. 600

  ✓ 2. 480

  ✗ 3. 590

  ✗ 4. 900

Q.18 An airplane goes 14 km due east and then 48 km due north. How far is it from its initial position?

Ans
  ✗ 1. 14 km

  ✗ 2. 48 km

  ✓ 3. 50 km

  ✗ 4. 28 km

Q.19 If $\triangle ABC \cong \triangle PQR$ and $\angle ABC = (x + 60)°$, $\angle PQR = (85 - 4x)°$, and $\angle RPQ = (3x + 65)°$, then the value of $\angle ABC$ in degree is:

Ans
  ✗ 1. 15

  ✗ 2. 5

  ✗ 3. 45

  ✓ 4. 65

Q.20 If the number 6788934a4 is divisible by 11,then find the smallest whole number in the place of a.

Ans
  ✗ 1. 3

  ✗ 2. 4

  ✗ 3. 5

  ✓ 4. 2

Q.21 Ram sold an item costing Rs.1,250 at a gain of 18% to Ramesh. It was again sold by Ramesh to Shyam at a loss of 10%. Find the selling price of Ramesh.

Ans
  ✗ 1. Rs.1,328.50

  ✗ 2. Rs.1,428.50

  ✗ 3. Rs.1,427.50

  ✓ 4. Rs.1,327.50

Q.22 The ratio of the present age of father to that of his son is 7 : 2. If after 10 years the ratio of their ages will become 9 : 4, then the present age of the father is:

Ans ✗ 1. 43 years

 ✓ 2. 35 years

 ✗ 3. 37 years

 ✗ 4. 40 years

Q.23 If $\tan^2\theta + \tan^4\theta = 1$, then:

Ans ✗ 1. $\cot^2\theta + \cot^4\theta = 1$

 ✓ 2. $\cos^2\theta + \cos^4\theta = 1$

 ✗ 3. $\sin^2\theta + \sin^4\theta = 1$

 ✗ 4. $\csc^2\theta + \sec^4\theta = 1$

Q.24 If the diameter of a solid hemisphere is 12.6 cm, then its volume is (take $\pi = \frac{22}{7}$):

Ans ✗ 1. $1{,}259 \text{ cm}^3$

 ✗ 2. 987 cm^3

 ✓ 3. 523.908 cm^3

 ✗ 4. $1{,}235.621 \text{ cm}^3$

Q.25 Which of the following statement is correct?

I. The value of $100^2 - 99^2 + 98^2 - 97^2 + 96^2 - 95^2 + 94^2 - 93^2 + \ldots\ldots + 22^2 - 21^2$ is 4840.

II. The value of

$$\left(k^2 + \frac{1}{k^2}\right)\left(k - \frac{1}{k}\right)\left(k^4 + \frac{1}{k^4}\right)\left(k + \frac{1}{k}\right)\left(k^4 - \frac{1}{k^4}\right) \text{ is } k^{16} - \frac{1}{k^{16}}.$$

Ans ✗ 1. Neither I nor II

 ✗ 2. Both I and II

 ✗ 3. Only II

 ✓ 4. Only I

Section : **English Comprehension**

Q.1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

This package is ideal for <u>infant teenager</u> who are just getting started with babysitting.

Ans ✘ 1. youngest teenagers

✘ 2. younger teenagers

✔ 3. young teenagers

✘ 4. No substitution required

Question ID : 26433088513
Status : **Answered**
Chosen Option : **1**

Q.2 Select the option that can be used as a one-word substitute for the given group of words.

Making of a false document with a false signature

Ans ✘ 1. Ruse

✔ 2. Forgery

✘ 3. Insincerity

✘ 4. Deception

Question ID : 26433061037
Status : **Answered**
Chosen Option : **2**

Q.3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There can be precious / diamonds and metals / in the surface / just below you.

Ans ✘ 1. diamonds and metals

✘ 2. just below you.

✔ 3. in the surface

✘ 4. There can be precious

Question ID : 26433096150
Status : **Answered**
Chosen Option : **3**

Q.4 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. A glimpse of its rich cultural heritage can be found through the great monuments and other historical sites it has.
B. India has a vast cultural and linguistic diversity which make the country culturally rich.
C. These monuments and historical sites are the symbols of India's diversity.
D. Several historical sites and monuments are identified as UN Heritage Sites.

Ans ✘ 1. CDAB

✘ 2. BADC

✔ 3. BACD

✘ 4. ABCD

Question ID : 26433072378
Status : **Answered**
Chosen Option : **3**

Q.5 Rearrange the parts of the sentence in correct order. apart from generating
P. real income for players, play-to-earn
Q. games also create communities
R. where gamers and creators can meet, share
S. wisdom, and do deals with one another

Ans ✗ 1. RSQP

✓ 2. PQRS

✗ 3. PRQS

✗ 4. SPRQ

Q.6 Select the correct indirect form of the given sentence.
Farah said to her aunt, "I am studying contemporary art."

Ans ✗ 1. Farah told her aunt that she was study contemporary art.

✗ 2. Farah told her aunt that she is studying contemporary art.

✗ 3. Farah told her aunt that she had been studying contemporary art.

✓ 4. Farah told her aunt that she was studying contemporary art.

Q.7 Select the correct passive form of the given sentence.
They welcomed Jane and Karan to the gathering.

Ans ✗ 1. Jane and Karan is welcomed by them to the gathering.

✗ 2. Jane and Karan had been welcomed by them to the gathering.

✗ 3. Jane and Karan are welcomed by them to the gathering.

✓ 4. Jane and Karan were welcomed by them to the gathering.

Q.8 Select the most appropriate ANTONYM of the underlined word in the context of the given sentence.

You should donate your <u>old</u> clothes to the poor.

Ans ✗ 1. young

✓ 2. new

✗ 3. modern

✗ 4. fresh

Q.9 Select the correct passive form of the given sentence.
Has she completed the record?

Ans ✔ 1. Has the record been completed by her?

✘ 2. Has the record completed by her?

✘ 3. Has the record had been completed by her?

✘ 4. Has the record been complete by her?

Q.10 Select the sentence with the appropriate use of preposition.

Ans ✘ 1. The lion and the unicorn fought between the crown.

✔ 2. The lion and the unicorn fought for the crown.

✘ 3. The lion and the unicorn fought by the crown.

✘ 4. The lion and the unicorn fought up the crown.

Q.11 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
To make your own gargle, _____ half a teaspoon of salt in a glass of lukewarm or partly cooled boiled water.

Ans ✘ 1. cease

✘ 2. cast

✘ 3. consolidate

✔ 4. dissolve

Q.12 Select the most appropriate option to fill in the blank.

The class teacher made us wait after school to _____ some advice on how to attempt the board exam.

Ans ✘ 1. leave

✘ 2. pay

✔ 3. give

✘ 4. deliver

Q.13 Select the sentences that contains no spelling errors.

Ans ✘ 1. India has started the largest inocultaion drive in the world against Covid.

✔ 2. India has started the largest inoculation drive in the world against Covid.

✘ 3. India has started the largest inculation drive in the world against Covid.

✘ 4. India has started the largest inokulation drive in the world against Covid.

Q.14 Select the option that can be used as a one-word substitute for the given group of words.

A list or collection of books or informative graphics

Ans ❌ 1. Bale

❌ 2. Hamlet

❌ 3. Gallery

✅ 4. Catalogue

Q.15 Select the most appropriate idiom that can substitute the italicised words in the given sentence.

My mother said, *"Make consistent progress for success."*

Ans ✅ 1. slow and steady

❌ 2. make a habit

❌ 3. in and outs

❌ 4. do's and don'ts

Q.16 Select the most appropriate meaning of the underlined idiom in the given sentence.

The intern aspired to understand the ins and outs of the operating systems of the institution.

Ans ❌ 1. Stern regulations

❌ 2. Prior conditions

❌ 3. Elaborate theories

✅ 4. Detailed description

Q.17 Select the most appropriate synonym for the underlined word in the given sentence.

You also worked with another eccentric genius.

Ans ❌ 1. Middle

❌ 2. ecological

✅ 3. Peculiar

❌ 4. elusive

Q.18 Select the most appropriate ANTONYM of the given word.

Incoherent

Ans ✗ 1. Gloomy

✗ 2. Apparent

✗ 3. Pensive

✔ 4. Rational

Q.19 Select the option that is similar in meaning to the underlined word.

He <u>declined</u> the offer to join the Board of Directors.

Ans ✗ 1. Delayed

✔ 2. Rejected

✗ 3. Modified

✗ 4. Deferred

Q.20 Identify the spelling error in the given sentence and select the option that rectifies the error.

Success is the continious journey towards the achievement of predetermined goals.

Ans ✔ 1. continuous

✗ 2. sucsess

✗ 3. gaols

✗ 4. achivement

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) _____, but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) _____ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) _____ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) _____ flying. They will use their feet for itching and (5) _____, however.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

Ans ✗ 1. perspiration

✗ 2. deposition

✗ 3. sediment

✔ 4. pigment

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A hummingbird's brilliant throat colour is not caused by feather (1) _____, but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) _____ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) _____ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) _____ flying. They will use their feet for itching and (5) _____, however.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank number 2.

Ans ✔ 1. influence

✖ 2. allure

✖ 3. intimidate

✖ 4. persuade

Question ID : **26433073347**	
Status : **Answered**	
Chosen Option : **1**	

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A hummingbird's brilliant throat colour is not caused by feather (1) _____, but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) _____ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) _____ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) _____ flying. They will use their feet for itching and (5) _____, however.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank number 3.

Ans ✖ 1. migrate

✖ 2. obtrude

✖ 3. forage

✔ 4. scoot

Question ID : **26433073348**	
Status : **Not Answered**	
Chosen Option : **--**	

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

A hummingbird's brilliant throat colour is not caused by feather (1) _____, but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) _____ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) _____ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) _____ flying. They will use their feet for itching and (5) _____, however.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank number 4.

Ans ✖ 1. slipshod

✔ 2. efficient

✖ 3. methodical

✖ 4. structured

Question ID : **26433073349**	
Status : **Not Answered**	
Chosen Option : **--**	

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A hummingbird's brilliant throat colour is not caused by feather (1) _____, but rather by iridescence in the arrangement of the feathers. Light level, moisture, angle of viewing, wear and tear and other factors all (2) _____ just how bright and colourful the throat may appear. Hummingbirds cannot walk or hop, though their feet can be used to (3) _____ sideways while they are perched. These birds have evolved smaller feet to be lighter for more (4) _____ flying. They will use their feet for itching and (5) _____, however.

SubQuestion No : 25

Q.25 **Select the most appropriate option to fill in blank number 5.**

Ans ✔ 1. preening

✘ 2. devouring

✘ 3. flouncing

✘ 4. scintillating

Combined Graduate Level Examination Tier I 2022

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Section : **General Intelligence and Reasoning**

Q.1 In a certain code language, 'DRAWING' is written as 'CQZVHMF' and 'TURQUOISE' is written as 'STQPTNHRD', how will 'COLOR' be written in that language?

Ans ✔ 1. BNKNQ

✘ 2. BMKMQ

✘ 3. ANKNQ

✘ 4. AMKMQ

> Question ID : **26433067766**
> Status : **Answered**
> Chosen Option : **1**

Q.2 Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.
Statements:
Few chips are cakes.
All cakes are ice creams.
All ice creams are sweets.
Conclusions:
(I) Some sweets are cakes.
(II) Some ice creams are cakes.
(III) All cakes are sweets.

Ans ✘ 1. Only conclusion I follows

✘ 2. Only conclusion II follows

✔ 3. All conclusions I, II and III follow

✘ 4. Either conclusion I or conclusion III follows

> Question ID : **26433065999**
> Status : **Answered**
> Chosen Option : **3**

Q.3 After arranging the given words according to dictionary order, which word will come at 'Third' position?
1. Unaffected
2. Unarmed
3. Unasked
4. Unattached
5. Unauthorized

Ans ✘ 1. Unauthorized

✘ 2. Unarmed

✔ 3. Unasked

✘ 4. Unattached

> Question ID : **264330104897**
> Status : **Answered**
> Chosen Option : **3**

Q.4 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)
(60, 17, 13)
(62, 14, 17)

Ans ✓ 1. (56, 15, 13)

✗ 2. (43, 9, 12)

✗ 3. (55, 18, 9)

✗ 4. (57, 15, 14)

Q.5 Which letter cluster will replace the question mark (?) to complete the given series?
EDIC, FGJF, ?, HMLL, IPMO

Ans ✗ 1. GIKI

✗ 2. GJKJ

✗ 3. GJLI

✓ 4. GJKI

Q.6 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
÷ and ×, 1 and 3
I. 6 + 4 − 9 × 3 ÷ 1
II. 4 × 3 − 1 + 8 ÷ 2

Ans ✗ 1. 26, 17

✓ 2. −17, 17

✗ 3. 9, 18

✗ 4. 11, 15

Q.7 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
GAR, AXS, UUT, ORU, ?

Ans ✓ 1. IOV

✗ 2. MOV

✗ 3. QRT

✗ 4. IMR

Q.8 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

Ans ✗ 1. WPUQ

✗ 2. MEKF

✓ 3. BXCY

✗ 4. ZLXM

Question ID : **26433080460**
Status : **Answered**
Chosen Option : **3**

Q.9 Select the odd group of numbers. (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)

Ans ✗ 1. (57 –53 –49)

✗ 2. (60–56 – 52)

✗ 3. (50–46 –42)

✓ 4. (47 –43 –37)

Question ID : **264330105073**
Status : **Answered**
Chosen Option : **4**

Q.10 Which two signs and two numbers should be interchanged in the following equation to make it correct?
78 + 456 − 45 × 12 ÷ 4 = 519

Ans ✗ 1. 12 and 4, − and ×

✓ 2. 78 and 456, ÷ and ×

✗ 3. 45 and 12, + and ÷

✗ 4. 456 and 45, ÷ and −

Question ID : **26433091763**
Status : **Answered**
Chosen Option : **2**

Q.11 In the following question, select the missing number from the given series.
123, 125, 127, ?, 131, 133
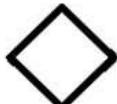
Ans ✗ 1. 128

✓ 2. 129

✗ 3. 130

✗ 4. 145

Question ID : **264330105018**
Status : **Answered**
Chosen Option : **2**
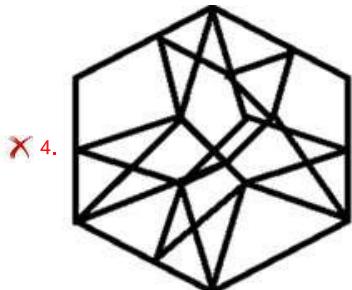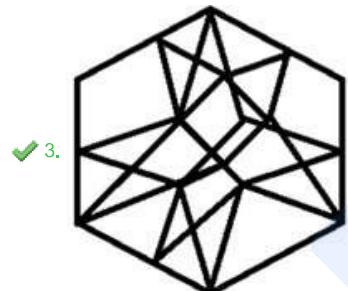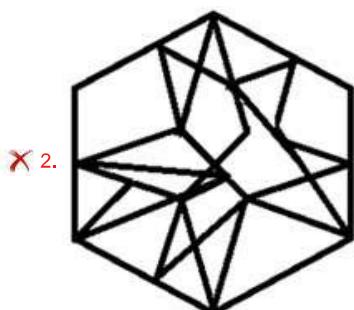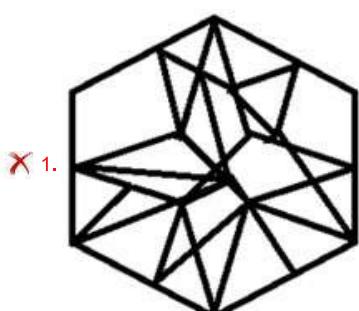
Q.12 Select the option figure in which the given figure is embedded (rotation is NOT allowed).

Ans

✗ 1.

✗ 2.

✔ 3.

✗ 4.

Q.13 If A × B means that A is the father of B, A − B means that A is the mother of B, A + B means that A is the brother of B then which of the following expression shows that Q is the son of P?

Ans
✔ 1. P × Q + R

✘ 2. Q × P + R

✘ 3. P + R × Q

✘ 4. P × Q − R

Q.14 U $ V means 'U is the sister of V'
U @ V means 'U is the husband of V'
U * V means 'U is the son of V'
U ÷ V means 'U is the mother of V'
If O $ P * B @ F, how is O related to F?

Ans
✘ 1. Sister

✘ 2. Brother

✔ 3. Daughter

✘ 4. Daughter-in-law

Q.15 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All O are C.
II. All C are D.
Conclusions:
I. Some C are O.
II. Some D are C.
III. No O is D.

Ans
✘ 1. Both conclusions II and III follows

✘ 2. All conclusion follows

✔ 3. Both conclusions I and II follows

✘ 4. Both conclusions I and III follows

Q.16 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.
ABILITY : LIBAYTI :: CHRONIC : ORHCCIN :: HEAVILY : ?
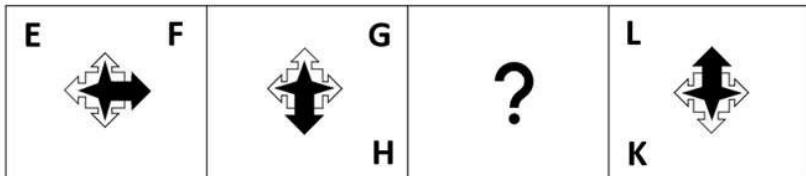
Ans
✔ 1. VAEHYLI

✘ 2. HAVIEYL

✘ 3. AEVHLYI

✘ 4. LYIAVHE

Q.17 Select the figure from among the given options that can replace the question mark (?) in the following series.
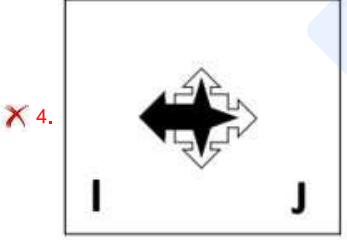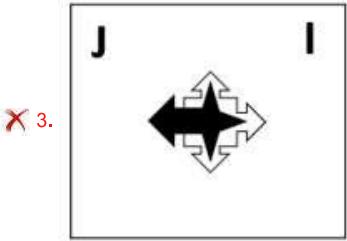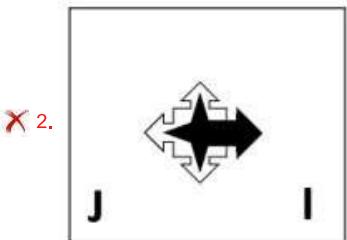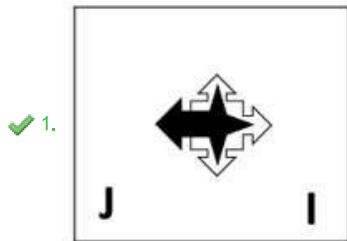


Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.

Question ID : 26433057792
Status : **Answered**
Chosen Option : **1**

Q.18 Three different positions of the same dice are shown. Find the number on the face opposite the face showing '2'.
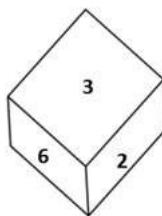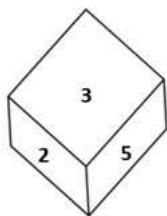

Figure 1   Figure 2   Figure 3
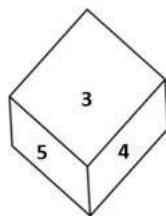
Ans ✗ 1. 6

✗ 2. 3

✔ 3. 4

✗ 4. 1

Q.19 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$$[(\sqrt{256}) \div 4]^3 + (6)^2 - (12 \times 8) + 66 + (36 \div 12) = 65$$

Ans ✗ 1. 6 and 8

✗ 2. 66 and 65

✔ 3. 4 and 8

✗ 4. 66 and 36

Q.20 Select the figure from among the given options that can replace the question mark (?) in the following series.

Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.
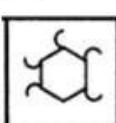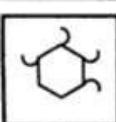
Q.21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying 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)
(4, 6, 9)
(25, 10, 4)

Ans   ✘ 1. (23, 3, 32)

✘ 2. (45, 20, 19)

✔ 3. (6, 36, 216)

✘ 4. (98, 7, 89)

Q.22 In a certain code language, 'TOP' is coded as '102' and 'BAD' is coded as '14'. How will 'DOG' be coded in that language?

Ans   ✘ 1. 51

✔ 2. 52

✘ 3. 53

✘ 4. 50

Q.23 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.

LAMP : RQGT :: GAME : GQGO :: GOAT : ?

Ans ✗ 1. OUEV

✗ 2. EVUO

✔ 3. VEUO

✗ 4. ACDF

Q.24 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

6 : 12 :: 9 : 21 :: 3 : ?

Ans ✔ 1. 3

✗ 2. 7

✗ 3. 5

✗ 4. 8
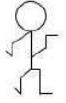
Q.25 Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).

Ans ✗ 1.

✗ 2.

✗ 3.

✔ 4.

Section : **General Awareness**

Q.1 Who among the following won the Best Music Director award at the 67th National Film Award Ceremony?

Ans ✗ 1. Gopi Sundar

✔ 2. D. Imman

✗ 3. Mani Sharma

✗ 4. Devi Sri Prasad

Q.2 _____ are known as narrow money.

Ans ✔ 1. M1 and M2

✘ 2. M2 and M4

✘ 3. M3 and M2

✘ 4. M1 and M4

> Question ID : **264330105370**
> Status : **Answered**
> Chosen Option : **3**

Q.3 Samudragupta's mother belonged to which of the following gana?

Ans ✘ 1. Koliya

✔ 2. Lichchhavi

✘ 3. Sakya

✘ 4. Vajji

> Question ID : **264330105193**
> Status : **Answered**
> Chosen Option : **2**

Q.4 Padma Subrahmanyam is the exponent of which of the following Indian dance forms?

Ans ✘ 1. Kathakali

✔ 2. Bharatanatyam

✘ 3. Kathak

✘ 4. Mohiniattam

> Question ID : **26433064655**
> Status : **Answered**
> Chosen Option : **2**

Q.5 The crust is the Earth's outermost layer that is less than _____ percent of Earth by mass, with oceanic crust and continental crust often consisting of more felsic rocks.

Ans ✘ 1. 5

✔ 2. 1

✘ 3. 2

✘ 4. 10

> Question ID : **26433064277**
> Status : **Not Answered**
> Chosen Option : **--**

Q.6 Which of the following jurisdictions of the Supreme Court allows it to settle disputes between the centre and state and amongst states?

Ans ✘ 1. Appellate

✘ 2. Advisory

✘ 3. Writ

✔ 4. Original

> Question ID : **26433064847**
> Status : **Answered**
> Chosen Option : **4**

Q.7 Cells of meristematci tissue lack _____.

Ans ✗ 1. Cellulose wall

✓ 2. Vacuoles

✗ 3. cytoplasm

✗ 4. Nuclei

Question ID : **264330105454**
Status : **Not Answered**
Chosen Option : **--**

Q.8 The upper portion of the mantle is called ____.

Ans ✗ 1. lithosphere

✗ 2. stratosphere

✗ 3. mesosphere

✓ 4. asthenosphere

Question ID : **26433066510**
Status : **Answered**
Chosen Option : **4**

Q.9 Guru Purnima, a festival celebrated by Hindus, Jains and Buddhists in India falls in which month of Hindu calendar?

Ans ✗ 1. Kartika

✗ 2. Vaisakha

✗ 3. Sravana

✓ 4. Ashadha

Question ID : **26433072641**
Status : **Answered**
Chosen Option : **2**

Q.10 In May 2022, the Inter-State Council, which works to promote and support cooperative federalism in the country, has been reconstituted. Who will be the chairman of this council?

Ans ✗ 1. President of India

✗ 2. Chief Justice of India

✓ 3. Prime Minister of India

✗ 4. Finance minister of India

Question ID : **264330105248**
Status : **Answered**
Chosen Option : **3**

Q.11 Which of the following festivals is mainly celebrated in Arunachal Pradesh?

Ans ✗ 1. Hornbill

✗ 2. Ambubachi

✗ 3. Wangala

✓ 4. Solung

Question ID : **26433072934**
Status : **Answered**
Chosen Option : **4**

Q.12 The poverty ratio has declined to _____ in 2011-12 in Urban India.

Ans
- ✗ 1. 21.4 percent
- ✓ 2. 26.4 percent
- ✗ 3. 23.4 percent
- ✗ 4. 28.4 percent

Question ID : **264330105526**
Status : **Not Answered**
Chosen Option : **--**

Q.13 At which of the following places was the FIFA Men's World Cup, held in 2018?

Ans
- ✓ 1. Russia
- ✗ 2. China
- ✗ 3. Turkey
- ✗ 4. Columbia

Question ID : **26433070845**
Status : **Answered**
Chosen Option : **1**

Q.14 In which year, James Mill Published a massive three-volume work, "A History of British India"?

Ans
- ✗ 1. 1815
- ✗ 2. 1807
- ✗ 3. 1805
- ✓ 4. 1817

Question ID : **264330105542**
Status : **Answered**
Chosen Option : **3**

Q.15 The ISSF Junior World Cup 2022 was held in _____.

Ans
- ✓ 1. Germany
- ✗ 2. Iran
- ✗ 3. Turkey
- ✗ 4. UAE

Question ID : **26433071557**
Status : **Answered**
Chosen Option : **1**

Q.16 How many delegates attended the first session of Congress in 1885?

Ans
- ✗ 1. 62
- ✗ 2. 78
- ✗ 3. 68
- ✓ 4. 72

Question ID : **26433089151**
Status : **Answered**
Chosen Option : **4**

Q.17 Effect of The Industrial Policy, 1956 on industries was _____.

Ans ✔ 1. industries started to get diversified

✘ 2. India become self-sufficient in industrial goods

✘ 3. imports of those goods which could be produced in India itself was avoided

✘ 4. industries share fell in the GDP during 1991

Question ID : **26433065438**
Status : **Answered**
Chosen Option : **3**

Q.18 Which of the following revolutionary groups' members assassinated Assistant Superintendent of Police John Saunders in 1927?

Ans ✘ 1. Hindustan Sewa Dal

✔ 2. Hindustan Republican Association

✘ 3. Abhinav Bharat Secret Society

✘ 4. Anushilan Samiti

Question ID : **26433085280**
Status : **Answered**
Chosen Option : **2**

Q.19 What is the correct percentage by volume of various gases in Earth's atmosphere?

Ans ✘ 1. 20.95% nitrogen, 78.09% oxygen, and 0.04% carbon dioxide and other greenhouse gases.

✘ 2. 10.95% nitrogen, 88.09% oxygen, and 0.09% carbon dioxide and other greenhouse gases.

✘ 3. 10.95% nitrogen, 78.09% oxygen, and 0.03% carbon dioxide and other greenhouse gases.

✔ 4. 78% nitrogen, 21% oxygen, and 0.03% carbon dioxide and other greenhouse gases.

Question ID : **26433089674**
Status : **Answered**
Chosen Option : **4**

Q.20 The Indian Antarctic Bill, 2022 prohibits which of the following activities in Antarctica?
I. Nuclear explosion
II. Introduction of non-sterile soil
III. Discharge of garbage

Ans ✘ 1. I and II

✔ 2. I, II and III

✘ 3. Only III

✘ 4. II and III

Question ID : **264330105229**
Status : **Answered**
Chosen Option : **3**

Q.21 In organic chemistry, which of the following is an empirical rule used to predict the regioselectivity of electrophilic addition reactions of alkanes and alkynes?

Ans ✘ 1. Cornforth's rules

✘ 2. Bredt's rule

✔ 3. Markovnikov's rule

✘ 4. Baldwin's rules

Question ID : **26433064072**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Which crop does not require high rainfall and high temperature?

Ans ✗ 1. Rice

✗ 2. Jute

✓ 3. Maize

✗ 4. Cotton

Question ID : **264330105616**
Status : **Answered**
Chosen Option : **4**

Q.23 India's first Olympic Values Education Programme (OVEP) was launched in _____.

Ans ✗ 1. Uttar Pradesh

✗ 2. Punjab

✓ 3. Odisha

✗ 4. Haryana

Question ID : **264330105212**
Status : **Answered**
Chosen Option : **4**

Q.24 According to Article 51 A (a) of the Constitution of India, it shall be the duty of every Indian citizen to abide by the _____ and respect its ideals and institutions.

Ans ✓ 1. constitution

✗ 2. secularism

✗ 3. socialism

✗ 4. democracy

Question ID : **26433086783**
Status : **Answered**
Chosen Option : **1**

Q.25 In which of the following states of India is "MANAS" biosphere Reserve located?

Ans ✗ 1. Tripura

✗ 2. Manipur

✗ 3. Meghalaya

✓ 4. Assam

Question ID : **26433089238**
Status : **Answered**
Chosen Option : **4**

Section : **Quantitative Aptitude**

Q.1 The table given below shows the cost price and selling of four different articles.

Articles	Cost price	Selling price
J	650	750
K	370	450
L	450	650
M	590	650

What is the difference between the average selling price and average cost price of all the articles?

Ans ✔ 1. 110

✘ 2. 160

✘ 3. 710

✘ 4. 140

Q.2 Two stations R and S are 400 km apart from each other. A train leaves from R to S and simultaneously another train leaves from S to R. Both trains meet after 10 hours. If the speed of the first train is 4 km/hr more than the second train, then what is the speed of the slower train?

Ans ✔ 1. 18 km/hr

✘ 2. 26 km/hr

✘ 3. 16 km/hr

✘ 4. 22 km/hr

Q.3 If $\tan(\alpha + \beta) = a, \tan(\alpha - \beta) = b$, then the value of $\tan 2\alpha$ is :

Ans ✔ 1. $\dfrac{a+b}{1-ab}$

✘ 2. $\dfrac{a+b}{1+ab}$

✘ 3. $\dfrac{a-b}{1+ab}$

✘ 4. $\dfrac{a-b}{1-ab}$

Q.4 P and Q are two alloys of aluminium and copper. The ratios of aluminium and copper in P and Q are 5 : 11 and 3 : 5, respectively. If a third alloy is formed by mixing alloys P and Q in the ratio of 1 : 3, then aluminium is what percentage (rounded off to the nearest integer) of the copper in the third alloy ?

Ans ✘ 1. 63 Percent

✘ 2. 52 Percent

✘ 3. 48 Percent

✔ 4. 56 Percent

Q.5 A certain sum of money lent at simple interest amounts to ₹1,200 in 2 years and ₹1,600 in 4 years. The rate per cent per annum is:

Ans   ✗ 1. 20%

     ✗ 2. 30%

     ✔ 3. 25%

     ✗ 4. 16%

Q.6 If the nine-digit number 3422213AB is divisible by 99, then what is the value of 2A + B?
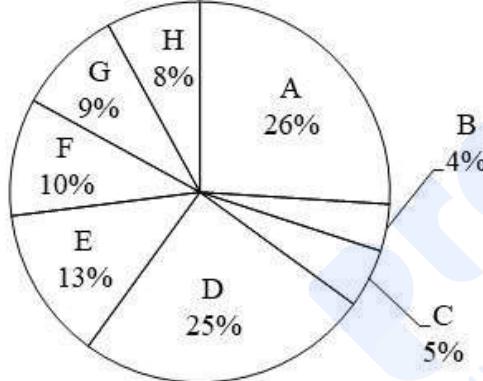
Ans   ✔ 1. 11

     ✗ 2. 12

     ✗ 3. 10

     ✗ 4. 13

Q.7 The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these 8 school is 5000. Number of boys in a particular school is shown as a percent of total number of boys in all these 8 schools.


What is the ratio of total number of boys in B, D and E to the total number of boys in A, C and F?
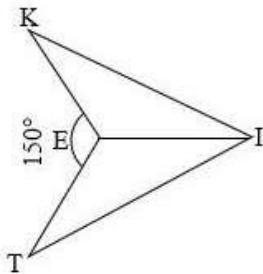
Ans   ✗ 1. 37 : 57

     ✔ 2. 42 : 41

     ✗ 3. 57 : 38

     ✗ 4. 41 : 42

Q.8

In the given figure, if KI = IT and EK = ET, then ∠TEI = _____.
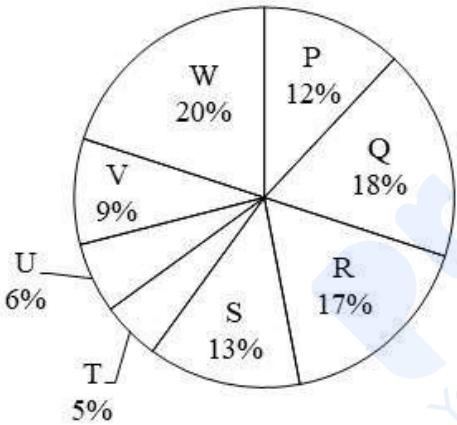
Ans   ✗ 1. 75°

   ✗ 2. 125°

   ✔ 3. 105°

   ✗ 4. 150°

Question ID : 26433082922
Status : **Answered**
Chosen Option : **3**

Q.9 The pie chart given below shows the number of car sold by 8 different companies. The total number of car sold by all these 8 companies are 5,000. Number of cars sold by a particular company is shown as a percent of total number of cars sold by all these 8 companies.

What is the ratio of total central angle formed by sector R and S to the total central angle formed by sector U and V?

Ans   ✗ 1. 1 : 4

   ✔ 2. 2 : 1

   ✗ 3. 1 : 2

   ✗ 4. 3 : 1

Question ID : 264330105769
Status : **Answered**
Chosen Option : **2**

Q.10 In a $\triangle ABC$, $\angle B + \angle C = 110°$, then find the measure of $\angle A$.

Ans

✗ 1. $90°$

✔ 2. $70°$

✗ 3. $80°$

✗ 4. $60°$
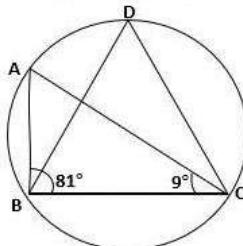
Q.11 In the given figure, $\angle ABC = 81°$ and $\angle ACB = 9°$. What is the value of $\angle BDC$?

Ans

✗ 1. $80°$

✔ 2. $90°$

✗ 3. $70°$

✗ 4. $60°$

Q.12 If $x = 2 - 2^{\frac{1}{3}} + 2^{\frac{2}{3}}$, then find the value of $x^3 - 6x^2 + 18x$.

Ans

✗ 1. 40

✗ 2. 33

✗ 3. 45

✔ 4. 22

Q.13 If A is an acute angle, the simplified form of

$$\frac{\cos(\pi-A).\cot\left(\frac{\pi}{2}+A\right)\cos(-A)}{\tan(\pi+A)\tan\left(\frac{3\pi}{2}+A\right)\sin(2\pi-A)} \text{ is:}$$

Ans   ✗ 1. $\cos^2 A$

   ✗ 2. $\sin A$

   ✗ 3. $\sin^2 A$

   ✔ 4. $\cos A$

Q.14 If $a + b + c = 5$, $a^3 + b^3 + c^3 = 85$ and $abc = 25$, then find the value of $a^2 + b^2 + c^2 - ab - bc - ca$.

Ans   ✔ 1. 2

   ✗ 2. 4

   ✗ 3. 6

   ✗ 4. 8
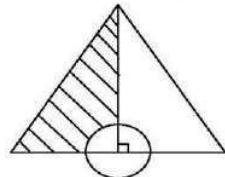
Q.15 Find the area of the shaded portion of an equilateral triangle with sides 6 units shown in the following figure. A circle of radius 1 unit is centred at midpoint of a side of the triangle.

Ans   ✔ 1. $\frac{1}{2}\left(9\sqrt{3} - \frac{11}{7}\right)$ unit^2

   ✗ 2. $\frac{1}{4}\left(9\sqrt{3} - \frac{11}{7}\right)$ unit^2

   ✗ 3. $\frac{1}{2}\left(6\sqrt{3} - \frac{11}{7}\right)$ unit^2

   ✗ 4. $\frac{1}{2}\left(9\sqrt{3} - \frac{22}{7}\right)$ unit^2

Q.16 The table given below shows the sales turnover of 5 different companies.

Company	Sales turnover
E	270
F	230
G	350
H	400
I	300

What is the difference between the sales turnover of company H and F?

Ans ✗ 1. 190

✗ 2. 210

✓ 3. 170

✗ 4. 230

Question ID : 264330105762
Status : **Answered**
Chosen Option : **3**

Q.17 If a = –12, b = –6 and c = 18, then what is the value of (2abc)/9

Ans ✗ 1. 554

✓ 2. 288

✗ 3. –288

✗ 4. 144

Question ID : 264330105941
Status : **Answered**
Chosen Option : **2**

Q.18 By selling an article for Rs.33,000 a man gains 10%. To get a profit of 20%, he has to sell it for:

Ans ✗ 1. Rs.30,000

✗ 2. Rs.35,000

✓ 3. Rs.36,000

✗ 4. Rs.36,600

Question ID : 26433063470
Status : **Answered**
Chosen Option : **3**

Q.19 In nine innings of cricket, the average of a batsman is 58 runs. How many runs does he need to make in the tenth innings to get the average score 61?

Ans ✓ 1. 88

✗ 2. 69

✗ 3. 79

✗ 4. 100

Question ID : 26433065263
Status : **Answered**
Chosen Option : **1**

Q.20 Find the mean proportional between 25 and 225.

Ans ✗ 1. 65

✗ 2. 25

✔ 3. 75

✗ 4. 85

Q.21 Pawan can do a piece of work in 32 days. He worked for 8 days and left the work. Thereafter Sandeep finished the remaining work in 27 days. In how many days can Pawan and Sandeep together do the whole work?

Ans ✔ 1. $16\frac{16}{17}$ days

✗ 2. $16\frac{13}{17}$ days

✗ 3. $16\frac{15}{17}$ days

✗ 4. $16\frac{14}{17}$ days

Q.22 The ratio of two numbers is 6 : 7 and their HCF is 3. Their LCM is _____.

Ans ✗ 1. 124

✗ 2. 128

✗ 3. 122

✔ 4. 126

Q.23 ∆PQR is right-angled at Q. The length of PQ is 5 cm and ∠PRQ = 30°. Determine the length of side QR.

Ans ✔ 1. $5\sqrt{3}$ cm

✗ 2. $3\sqrt{3}$ cm

✗ 3. $\frac{1}{\sqrt{3}}$ cm

✗ 4. $\frac{5}{\sqrt{3}}$ cm

Q.24 A shopkeeper allows a discount of 12% to his customers and still gains 18%. Find the marked price of an article which costs Rs.528 to the shopkeeper.(Answer to the nearest rupees)

Ans
- ✗ 1. Rs.728
- ✓ 2. Rs.708
- ✗ 3. Rs.695
- ✗ 4. Rs.798

Q.25

'O' is a point in the interior of an equilateral triangle. The perpendicular distance from 'O' to the sides are $\sqrt{3}$cm, $2\sqrt{3}$cm, $5\sqrt{3}$cm. The perimeter of the triangle is:

Ans
- ✓ 1. 48 cm
- ✗ 2. 32 cm
- ✗ 3. 24 cm
- ✗ 4. 64 cm

Section : **English Comprehension**

Q.1 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
His heart pounded as he checked his rearview mirror and saw only the dark _____ of highway.

Ans
- ✗ 1. vitality
- ✓ 2. stretch
- ✗ 3. trench
- ✗ 4. emancipation

Q.2 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P. Within an hour, he was in jail.
Q. He made no attempts to hide his identity and even looked directly into the security camera and smiled.
R. On Jan 6, 1995, McArthur Wheeler boldly robbed two banks in broad daylight with no disguise.
S. By 11:00 at night, his picture was all over the news, leading an informant to identify Wheeler to the police.

Ans
- ✗ 1. RPSQ
- ✗ 2. SPQR
- ✓ 3. RQSP
- ✗ 4. PRQS

Q.3 Select the most appropriate synonym of the underlined word in the given sentence.

Isn't <u>knowledge</u> supposed to make life sweeter and happier?

Ans ✗ 1. Curriculum

✗ 2. Profession

✓ 3. Wisdom

✗ 4. Superiority

Question ID : **26433060362**
Status : **Answered**
Chosen Option : **3**

Q.4 Select the most appropriate option that can substitute the underlined segment in the given sentence.
<u>The man which was present</u> at the meeting spoke against the chairperson.

Ans ✗ 1. The man which were present

✗ 2. The men which was present

✗ 3. The man whom was present

✓ 4. The man who was present

Question ID : **26433084636**
Status : **Answered**
Chosen Option : **4**

Q.5 Select the most appropriate option to complete the given sentence.

They were not able to get the item from the store because it was _____.

Ans ✗ 1. in fashion

✗ 2. in vain

✓ 3. out of stock

✗ 4. on leave

Question ID : **26433084707**
Status : **Answered**
Chosen Option : **3**

Q.6 Select the most appropriate meaning of the underlined idiom in the given sentence.
I must tell you that it all <u>went pear-shaped</u> after you left the meeting in the middle.

Ans ✓ 1. Went terribly wrong

✗ 2. Became very entertaining

✗ 3. Became tragic

✗ 4. Turned out fine

Question ID : **26433061580**
Status : **Answered**
Chosen Option : **3**

Q.7 Select the most appropriate ANTONYM of the word 'dwindle' in the sentence given below.

Rahul advised Neerja to appreciate or motivate her younger brother and not to dwindle or neglect his ideas all the time.

Ans ✘ 1. deprecate

✔ 2. complement

✘ 3. motivate

✘ 4. neglect

Q.8 Select the most appropriate option to substitute the underlined segment in the given sentence.

The bus is now full of passengers, it <u>will leave</u> soon.

Ans ✘ 1. leaves

✘ 2. is leaving

✔ 3. is going to leave

✘ 4. has to leave

Q.9 Select the option that expresses the given sentence in active voice.

Where was this pen found by him?

Ans ✘ 1. Where do he find this pen?

✘ 2. Where does he find this pen?

✘ 3. Where did he found this pen?

✔ 4. Where did he find this pen?

Q.10 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Kranthi loves to swim at the local swimming pool <u>in order that relieve</u> his work stress.

Ans ✘ 1. in order which

✘ 2. No substitution

✘ 3. in order as to relieve

✔ 4. in order to relieve

Q.11 Select the most appropriate ANTONYM of the given word.

Inherent

Ans ✗ 1. Natural

✓ 2. extraneous

✗ 3. Induce

✗ 4. Restricted

Q.12 Select the idiom from the given options that gives the most appropriate meaning of the highlighted text in the following sentence.

A village fair is a place that contains many interesting objects. People of all age groups eagerly wait for this.

Ans ✗ 1. Road to Damascus

✗ 2. Ivory tower

✓ 3. Aladdin's cave

✗ 4. Jewel in the crown

Q.13 Select the option that expresses the given sentence in passive voice.

I named the child Ritesh.

Ans ✓ 1. The child was named Ritesh.

✗ 2. The child Ritesh is named.

✗ 3. The child is named Ritesh.

✗ 4. The child Ritesh was named.

Q.14 Select the sentences that contains no spelling errors in the given context.

Ans ✗ 1. Furrow from the protestors was heard outside the president's house.

✗ 2. Furoroe from the protestors was heard outside the president's house.

✓ 3. Furore from the protestors was heard outside the president's house.

✗ 4. Furorow from the protestors was heard outside the president's house.

Q.15 In the given sentence, one word may have been incorrectly spelt. Select the correctly spelt word from the given alternatives. If there is no error, select 'No error' as your answer.

Decades of enimity between Lomovs and Chubukovs came to an end with the marriage between the two families.

Ans ✗ 1. enemity

✓ 2. enmity

✗ 3. anaemity

✗ 4. No error

Question ID : **26433070553**
Status : **Answered**
Chosen Option : **4**

Q.16 Select the correct direct form of the given sentence.
She tells me that I am her lucky charm.

Ans ✗ 1. She says to me, "You was my lucky charm."

✗ 2. She said to me, "You are my lucky charm."

✗ 3. She says to me, "I am your lucky charm."

✓ 4. She says to me, "You are my lucky charm."

Question ID : **264330104645**
Status : **Answered**
Chosen Option : **4**

Q.17 Select the most appropriate synonym of the given word.

Chide

Ans ✗ 1. Prevent

✗ 2. Rescue

✓ 3. Scold

✗ 4. Follow

Question ID : **26433060628**
Status : **Answered**
Chosen Option : **3**

Q.18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The boy, as well as / his friends, were / absent from the class / when the teacher came.

Ans ✗ 1. absent from the class

✗ 2. when the teacher came

✓ 3. his friends, were

✗ 4. The boy, as well as

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Status : **Answered**
Chosen Option : **3**

Q.19 Rearrange the parts of the sentence in correct order.
Genome-wide
P. with metabolites that influence
Q. traits like flavour, disease resistance and texture
R. analysis of each apple enabled
S. identification of genetic markers associated

Ans
  ✗ 1. PQRS

  ✗ 2. QRPS

  ✓ 3. RSPQ

  ✗ 4. QRSP

Q.20 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

He describes the place vivid / that inspired in us / a wish to visit / the same.

Ans
  ✓ 1. He describes the place vivid

  ✗ 2. the same.

  ✗ 3. a wish to visit

  ✗ 4. that inspired in us

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
Exercise is the (1)_____ of muscles and limbs which is done to (2)_____ a specific outcome. The chief aim of doing exercise is usually (3)_____ fitness. At the end of our (4)____ day, we prefer to (5)____ in leisure activities rather than a workout.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no. 1.

Ans
  ✗ 1. motion

  ✗ 2. current

  ✓ 3. movement

  ✗ 4. fluctuation

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Exercise is the (1)_____ of muscles and limbs which is done to (2)_____ a specific outcome. The chief aim of doing exercise is usually (3)_____ fitness. At the end of our (4)_____ day, we prefer to (5)_____ in leisure activities rather than a workout.

SubQuestion No : 22

Q.22 Select the most appropriate option to fill in blank no. 2.

Ans   ✗ 1. yield

     ✔ 2. attain

     ✗ 3. establish

     ✗ 4. procure

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Exercise is the (1)_____ of muscles and limbs which is done to (2)_____ a specific outcome. The chief aim of doing exercise is usually (3)_____ fitness. At the end of our (4)_____ day, we prefer to (5)_____ in leisure activities rather than a workout.

SubQuestion No : 23

Q.23 Select the most appropriate option to fill in blank no. 3.

Ans   ✗ 1. magnifying

     ✗ 2. amplifying

     ✗ 3. intensifying

     ✔ 4. enhancing

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Exercise is the (1)_____ of muscles and limbs which is done to (2)_____ a specific outcome. The chief aim of doing exercise is usually (3)_____ fitness. At the end of our (4)_____ day, we prefer to (5)_____ in leisure activities rather than a workout.

SubQuestion No : 24

Q.24 Select the most appropriate option to fill in blank no. 4.

Ans   ✗ 1. lively

     ✔ 2. hectic

     ✗ 3. furious

     ✗ 4. feverish

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Exercise is the (1)_____ of muscles and limbs which is done to (2)_____ a specific outcome. The chief aim of doing exercise is usually (3)_____ fitness. At the end of our (4)____ day, we prefer to (5)____ in leisure activities rather than a workout.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank no. 5.

Ans ✔ 1. indulge

✘ 2. luxuriate

✘ 3. abandon

✘ 4. coddle