## Combined Graduate Level Examination Tier I 2022

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 01/12/2022 |
| Exam Time | $9: 00$ AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
www.exammix.com
Q. 1 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$x$ and +3 and 9
I. $7 \times 9-8 \div 2+3$
II. $4 \times 9-3+8 \div 2$

Ans $\times 1.0,1$
2. $-26,-29$
3. 6, 0
4. 12,13
Q. 2 In a certain code language, 'BEHOLD' is written as 'BDEHLO' and 'INDEED' is written as 'DDEEIN'. How will 'COURSE' be written in that language?

Ans
X 1. CEROSU
2. CEORUS
3. CEOSUR
4. CEORSU
Q. 3 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.)
Library : Books :: Museum : ?
Ans
X 1. Building
2. Artefacts

X 3. People
4. Gallery
Q. 4 Which of the following numbers will replace the question mark (?) in the given series?

382, 322, 272, 232, 202, ?
Ans $\times 1.168$
X2. 150
3. 182
(4. 132
Q. 5 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 3$.

$\times 4$.

Q. 6 Select the correct combination of mathematical signs to replace the * signs and balance the given equation.
21 * 4 * 156 * 13 * $11=83$
Ans $\times 1 .-, \div \times,+$
X2. $\times,+, \div,-$
3. $\times,-, \div,+$

人4.,$+ \div,-, \times$
Q. 7 Which of the following letter-clusters will replace the question mark (?) in the given series?
PK, GT, XC, OL, ?
Ans
X 1. GT
$\times 2 \mathrm{HS}$
X 3.EV
4.FU
Q. 8 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)
$(3,14,1)$
$(4,36,2)$
Ans
X $1 .(8,12,2)$
X 2. $(5,81,4)$
X $3 .(7,40,3)$
4. $(8,260,2)$
Q. 9 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
12 * 24 * 4 * 2 * 60
Ans
ㄱ․,$- \times,+,=$
人3. $+, x,-$, $=$
人4.,$+ \div, \times,=$
Q. 10 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. HGF
X 2. RQP
3. UVW
(4.LKJ

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）
Phone ：Talk ：：Television ：？
Ans
X 1．Remote
2．View
3．Read
4．Channel

Q． 12 Select the cube that can be formed by folding the given sheet along the lines．


A

B

C

D

Ans
X 1．None are possible
X 2．Only A and B
X 3．Only C and D
－4．Only A

Q． 13 Select the correct mirror image of the given combination when the mirror is placed at＇PQ＇as shown below．

## BLZK541M

Ans
－MIACXSJg
x．JMAटス
x．IMAटス5」g
×．JMAटYS」g
Q. 14 Select the figure that will replace the question mark (?) in the following figure series.


Ans

$\times 2$.

$\times 3$.

$\times 4$.

Q. 15 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 cards are boxes.
All boxes are torches.
All torches are shoes.
Conclusions:
I. All shoes are torches.
II. All torches are boxes.
III. All boxes are cards.
IV. All cards are shoes.

Ans 1. Only conclusion IV follows
2. Only conclusions II and III follow
3. Only conclusions I and II follow
4. Only conclusion III follows

## Q. 16 In a certain code language, FRUCTUS is coded as 108 , and SPRINTER is coded as 119.

 How will MASCULINE be coded in that language?Ans
$\times 1.96$
X 2.99

- 3.97
$\times 4.98$
Q. 17 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 W are S.
II. No $D$ is W.

Conclusion:
I. Some S are W.
II. All S are D.
III. No W is D.

Ans

1. Only conclusion III follows
2. Both conclusions I and III follows
3. Both conclusions I and II follows
4. All conclusion follows
Q. 18 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NMRQ, NDZG, NUHW, NLPM, ?
Ans
X 1. NQRC
5. NCXC

X 3. NHMH
4. MQRQ
Q. 19 Which figure should replace the question mark (?) if the series were to be continued?

| 4 | B | V | V | T | O | T | O | 6 | 6 | 2 | V |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | I |  |  | 6 |  |  | 4 |  |  | 9 |  | $?$ |
| 2 | T | O | 4 | B | 2 | B | 2 | V | T | O | B |  |

Ans

$\times 2$

|  | $V$ |  |
| :--- | :--- | :--- |
| 9 | $T$ | $O$ |

$\times 3$.

| $V$ | 0 | $B$ |
| :---: | :---: | :---: |
|  | 2 |  |
| 6 | 9 | $T$ |

$\times 4$.

Q. 20 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.
19 : 324 :: 25 : 576 :: 9 :?
Ans
$\times 1.16$
2. 64
$\times 3.88$
X4.72
Q. 21 After arranging the given words according to dictionary order, which word will come at 'Fifth' position?

1. Popular
2. Population
3. Populace
4. Pope
5. Poppy

Ans

1. Population
2. Poppy
3. Popular
4. Populace
Q. 22 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)
$(20,6,4)$
$(24,7,5)$
Ans
5. $(65,9,4)$
6. $(22,5,2)$
7. $(40,8,5)$
8. $(42,7,3)$
Q. 23 A \# B means ' $A$ is the sister of $B$ '
$A @ B$ means ' $A$ is the daughter of $B$ '
$A$ \& $B$ means ' $A$ is the husband of $B$ '
$A \% B$ means ' $A$ is the father of $B$ '
If $A$ \% B \& C \# D @ $E$, then how is $B$ related to $E$ ?
Ans
9. Brother
10. Son-in-law
11. Father
12. Son
Q. 24 If $A \times B$ means that $A$ is the brother of $B, A-B$ means that $A$ is the sister of $B, A+B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the paternal aunt of $R$ ?
Ans
$X 1 . P-Q \times R$
13. $P-Q+R$

X 3. $P \times Q+R$
X4. $P+Q-R$
Q. 25 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. $(7-343-331)$
2. $(6-216-206)$
3. $(5-125-115)$
4. $(4-64-54)$

## Section : General Awareness

Q. 1 The term 'Back-stick' is used in which of the following games/sports?

Ans
X 1. Basketball
2. Badminton
3. Hockey
4. Volleyball
Q. 2 Which of the following festivals in Punjab is celebrated to commemorate the formation of the Khalsa Panth?
Ans

1. Lohri
2. Hola Mohalla
3. Teej
4. Baisakhi
Q. 3 What theme was decided to celebrate the second 'International Day of Yoga' in India?

Ans

1. Yoga for the achievement of the Sustainable Development Goals
2. Yoga for Peace
3. Yoga for Wellness
4. Yoga for Heart
Q. 4 Chemical formula of quick lime is $\qquad$ -
Ans
5. CaO
$\times 2 . \mathrm{CO}^{2}$
6. $\mathrm{CaCO}^{3}$
7. $\mathrm{Ca}(\mathrm{OH})^{2}$
Q. 5 What is the unit of work done?

Ans
$X 1$. Watt
$X$ 2. Decibel
X 3.Ampere
4. Joule
Q. 6 Which of the following sites do "Not" have nuclear power plant?

Ans

1. Vijayawada
2. Naraura
3. Tarapur
4. Rawat Bhata
Q. 7 The Ramakrishna Mission stressed the ideal of $\qquad$ through social service and selfless action.
Ans
X 1. bhakti
5. education

- 

3. salvation
4. God
Q. 8 International Non-Violence Day is observed on:

Ans
X1. 15 August
2. 31 October
3. 2 October

X 4. 14 November
Q. 9 Which of the following Dynasties established the kingdom of Vijayanagara?

Ans

1. Sangama Dynasty
2. Nagama Dynasty
3. Soma Dynasty
4. Tuluva Dynasty
Q. 10 When was 'Vayudoot' airline setup in India?

Ans

- 1.1981

X 2. 1991
X 3.1971
X4. 1969
Q. 11 Wearing away of landscape by different agents like water, wind and ice is called

Ans
×1. Weathering
2. Erosion

X 3. Metamorphosis
4. Sedimentation
Q. 12 Who has been appointed as the new chairman of the Central Board of Direct Taxes in June 2022?

Ans

1. Nitin Gupta
2. Nidhi Chibber
3. Ashish Jha
4. M Jagadesh Kumar
Q. 13 Who among the following is known as 'Sarod Samrat' in Indian Classical Music?

Ans
X 1. Pandit Ravishankar Prasad
2. Aamir Ali Khan
3. Amjad Ali Khan
4. Kishan Maharaj
Q. 14 Which of the following is NOT one of the methods of national income estimation?

Ans

1. Banking method

X 2. Expenditure method
3. Product method
4. Income method
Q. 15 The term 'Parliament' refers to the $\qquad$ _.
Ans $\quad \times$ 1. Rajya Sabha
X 2. Lok Sabha
$X$ 3. State legislature
4. National legislature
Q. 16 Chief Minister of which state has inaugurated a project of the Women and Child Development department to provide milk and eggs to children at all anganwadis in the state in a bid to improve their nutrition levels?
Ans
X 1. Andhra Pradesh
2. Kerala

X 3. Karnataka
4. Tamil Nadu
Q. 17 A 'Camel Protection and Development Policy' has been announced by the government of $\qquad$ _.
Ans

1. Rajasthan
2. Punjab
3. Gujarat
4. Ladakh
Q. 18 Who among the following Presidents of India was also the deputy chairman of Planning Commission?
Ans
X 1. V V Giri
5. K R Narayanan
6. Ramaswamy Venkataraman
7. Pranab Mukherjee
Q. 19 In Golgi apparatus, the maturing face is:

Ans
X 1. spherical
2. convex

X 3.bi-concave
4. concave
Q. 20 Raja Ram Mohan Roy founded a reform association known as Brahmo Sabha which was later known as $\qquad$ —.

Ans
< 1. Dev Samaj
2. Arya Samaj
3. Brahmo School
4. Brahmo Samaj
Q. 21 $\qquad$ part of xylem tissue in plants stores food.
Ans
X 1. Vessels
X 2. Xylem fibres
2. Xylem parenchyma

X 4. Tracheids
Q. 22 Who among the following composers won the Grammy in 2015 for his album 'Winds of Samsara' - a collaboration with South African flautist Wouter Kellerman?

Ans
X 1. Mano Murthy
2. Raghu Dixit
3. Subhashish Ghosh
4. Ricky Kej
Q. 23 In which of the following Indian states, Harappan cities have NOT been found?

Ans

1. Uttarakhand
2. Gujarat
3. Rajasthan
4. Haryana
Q. 24 Burning of coal is an example of $\qquad$ .
Ans
X 1. decomposition reaction
5. double displacement reaction
6. combination reaction
7. displacement reaction
Q. 25 The foremost right among rights to freedom is $\qquad$ .
Ans
8. Right to life and personal liberty
9. Preventive detention
10. Freedom to assemble
11. Right to freedom of speech and expression

Section : Quantitative Aptitude
Q. 1 A dishonest merchant sells goods at a $12.5 \%$ loss on the cost price, but uses 28 g weight instead of 36 g . What is his percentage profit or loss?

Ans
X 1.6.25\% loss
2. $12.5 \%$ gain
3. $18.75 \%$ gain
4. $10.5 \%$ loss
Q. 2 The HCF of two numbers is 12 . Which one of the following can never be their LCM?

Ans
$\times 1.72$
2.60
3. 90
4. 84
Q. 3 Two circles touch each other externally at $P$. $A B$ is a direct common tangent to the two circles, $A$ and $B$ are points of contact, and $\angle P A B=40^{\circ}$. The measure of $\angle A B P$ is:

Ans
$\times 1.45^{\circ}$
2. $55^{\circ}$
3. $50^{\circ}$
4. $40^{\circ}$
Q. 4 The mean proportion of 169 and 144 is:

Ans

1. 156
2. 147
3. 126
4. 165
Q. 5 The length and breadth of a rectangle are increased by $8 \%$ and $5 \%$, respectively. By how much percentage will the area of the rectangle increase?

Ans

1. $13.4 \%$
2. 15.4\%
3. $12.4 \%$

X4.16.4\%
Q. 6

Simplify $\frac{\cos 45^{\circ}}{\sec 30^{\circ}+\operatorname{cosec} 30^{\circ}}$
Ans
$\times 1 \cdot \frac{3 \sqrt{2}+\sqrt{6}}{8}$
x2. $\frac{\sqrt{3}}{2 \sqrt{2}-2 \sqrt{6}}$
จ3. $\frac{3 \sqrt{2}-\sqrt{6}}{8}$
X4. $\frac{\sqrt{3}}{2 \sqrt{6}-2 \sqrt{2}}$
Q. 7 Which of the following numbers is a divisor of $\left(49^{15}-1\right)$ ?

Ans
$\times 1.46$
$\times 2.14$

- 3.8
$\times 4.50$
Q. 8 In a 1500 m race, Anil beats Bakul by 150 m and in the same race Bakul beats Charles by 75 m. By what distance does Anil beat Charles?

Ans

1. 217.50 m
2. 200.15 m
3. 293.50 m
4. 313.75 m
Q. 9 ₹2,500, when invested for 8 years at a given rate of simple interest per year, amounted to ₹ 3,725 on maturity. What was the rate of simple interest that was paid per annum?

Ans
X 1. 6\%
2. $6.125 \%$
3. $6.25 \%$
4. $5.875 \%$
Q. 10 The following table shows the number of pages printed by 3 printers during 3 days.

| Printers | X | Y | Z |
| :---: | :---: | :---: | :---: |
| Days |  |  | 210 |
| Monday | 130 | 140 | 160 |
| Tuesday | 110 | 145 | 218 |
| Wednesday | 180 | 90 |  |

What is the average number of pages printed by printer Z during the 3 days?
Ans

- 1.196
$\times 2.194$
X 3.192

4. 190
Q. 11 The batting average for 27 innings of a cricket player is 47 runs. His highest score in an innings exceeds his lowest score by 157 runs. If these two innings are excluded, the average score of the remaining 25 innings is 42 runs. Find his highest score in an innings.

Ans
X 1. 176
2. 188
3. 186

X 4.174
Q. 12 P and $Q$ can complete a project in 15 days and 10 days, respectively. They started doing the work together, but after 2 days, $Q$ had to leave and $P$ alone completed the remaining work. In how many days was the whole work completed?

Ans

- 1.11

2. 12
3.13
3. 10
Q. 13 The pie chart given below shows the number of truck sold by 8 different companies. The total number of truck sold by all these 8 companies are 4000 . Number of truck sold by a particular company is shown as a percent of total number of truck sold by all these 8 companies.


The number of trucks sold by $B, C, F$ and $H$ is how much percent less than the number of trucks sold by all these 8 companies?
Ans
X 1.46 percent
X 2. 22 percent
3. 34 percent
4. 14 percent
Q. 14

If $x^{2}-5 x+1=0$, then the value of $\frac{x^{6}+x^{4}+x^{2}+1}{5 x^{3}}=$ ?
Ans
$\times 1.30$
$\times 2.25$

- 3.23

4. 28
Q. 15 In a right-angled triangle $P Q R$, right-angled at $Q$, the length of the side $P R$ is 17 units, length of the base $Q R$ is 8 units, and length of the side $P Q$ is 15 units. If $\angle R P Q=\alpha$, then $\sin \alpha+\cos \alpha$ is:
Ans
5. $\frac{18}{17}$
6. $\frac{23}{17}$
7. $\frac{21}{17}$
8. $\frac{15}{17}$
Q. 16

If $\frac{(17)^{3}+(7)^{3}}{\left(17^{2}+7^{2}-\mathrm{k}\right)}=24$, then what is the value of k ?
Ans

1. 119
$\times 2.128$
$\times 3.24$
X4. 109
Q. 17 The circumference of the two circles is 198 cm and 352 cm respectively. What is the difference between their radii?

Ans
X 1.45 cm
2. 16.5 cm
$\times 3.49 .5 \mathrm{~cm}$
4. 24.5 cm
Q. 18 Radius of a circle is 10 cm . Angle made by chord $A B$ at the centre of this circle is $\mathbf{6 0}$ degree. What is the length of this chord?
Ans
$\times 1.40 \mathrm{~cm}$
2. 20 cm
3. 30 cm
4. 10 cm
Q. 19 How many spherical lead shots each of diameter 8.4 cm can be obtained from a rectangular solid of lead with dimension $88 \mathrm{~cm}, 63 \mathrm{~cm}, 42 \mathrm{~cm}$ (take $\pi=\frac{22}{7}$ )?

Ans

1. 920
2. 750
3. 650
4. 860
Q. 20 The table given below shows the number of spoon manufactured by five factories.

| Factory | Spoon |
| :---: | :---: |
| P | 100 |
| Q | 200 |
| R | 150 |
| S | 50 |
| T | 250 |

What are the ratio of number of spoon manufactured by $P$ to the number of spoon manufactured by R ?

Ans
X1.3:2
2.2:3

X 3.14:1
$\times 4.1: 3$
Q. 21 In the triangle $\mathrm{ABC}, \mathrm{AB}=12 \mathrm{~cm}$ and $\mathrm{AC}=10 \mathrm{~cm}$, and $\angle \mathrm{BAC}=60^{\circ}$. What is the value of the length of the side BC ?


Ans
X 1.10 cm
2.7 .13 cm

X 3.13 .20 cm
4. 11.13 cm
Q. 22 The value of $\tan ^{2} \theta+\cot ^{2} \theta-\sec ^{2} \theta \operatorname{cosec}^{2} \theta$ is:

Ans $\times 1.2$
2. -2
$\times 3.0$
X4.1/2
Q. 23 The following bar graph shows the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2018 and 2019.


What is the ratio of the total sales of the first branch for both years to the total sales of the fourth branch for both years?

Ans

1. $4: 3$
2. $5: 9$
3. $8: 11$
4. $7: 9$
Q. 24

If $\frac{4\left[(17)^{3}-(7)^{3}\right]}{\left(17^{2}+7^{2}+p\right)}=40$, then what is the value of $p$ ?
Ans
$\times 1 .-119$
X 2. -129

* 3.119
$\times 4.129$
Q. 25 Riya could not decide between discount of $\mathbf{3 0 \%}$ or two successive discounts of 25\% and $5 \%$, both given on shopping of ₹ 3,840 . What is the difference between both the discounts?
Ans
X 1. ₹44

2. ₹48
3. ₹42
4. ₹46
Q. 1 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. When this extra water vapour condenses into precipitation, it results in heavier rain

- or, if it's cold enough, heavier snow.
B. The atmosphere can store an additional $4 \%$ of water vapour for every additional $1^{\circ} \mathrm{F}$ of warming.
C. More water evaporates from soils, plants, lakes and seas as the atmosphere warms.
D. One of the most obvious indications of climate change is heavier rainfall.

Ans
X 1. CBDA
2. DCBA

X 3.ACDB
X4.BCAD
Q. 2 Select the correct indirect form of the given sentence. She said, "l am in no mood to work now."

Ans
$X 1$. She said that she has been in no mood to work then.
2. She said that she was in no mood to work now.
3. She said that she was in no mood to work then.
4. She said that she has been in no mood to work now.
Q. 3 Select the correct passive form of the given sentence. Manu will tell her later.
Ans
$X 1$. She will be tell later by Manu.
2. She will tell later by Manu.
3. She will be told later by Manu.
4. She will be tell later.
Q. 4 Select the correct active form of the given sentence. Has the villa been occupied by them?
Ans

1. Did they occupied the villa?
2. Had they occupied the villa?
3. Have they occupied the villa?
4. Do they occupied the villa?
Q. 5 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.

The erroneous information spread rapidly across the nation and created a stir.
Ans
$X$ 1. erronous
2. No error
3. eronneous
4. errauneous
Q. 6 Select the most appropriate ANTONYM of the word 'SINKS' from the given sentence.

Groups work together to create Christmas parade themes, which are then carried out in floats, musical groups, and strolling figures.
Ans

1. Floats
2. Create
3. Parade
4. Strolling

## Q. 7 Select the most appropriate option to fill in the blank.

The angles are equal, consequently the sides are
Ans

1. equal
2. unequal
3. larger
4. smaller
Q. 8 Select the most appropriate meaning of the given idiom.

Like a cakewalk
Ans
X 1. Smooth surface
2. Pleasant experience
3. Easy task
4. Active
Q. 9 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'.

After finishing high school, I plan to pursuing law.
Ans
X 1. No substitution
2. plan to pursue

X 3. plan in pursue
X 4. plan to pursuing
Q. 10 Select the most appropriate synonym of the given word.

## Confusion

Ans
X 1. Intrepidity
2. Stagnation
3. Perusal
4. Commotion
Q. 11 Select the most appropriate option to substitute the underlined segment in the given sentence.

Our guests arrived; they are sitting in the garden.
Ans

1. shall arrive
2. have arrived
3. are arriving
4. might arrive
Q. 12 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

During an earthquake, / it is advised to take / cover above a table / to save your life.
Ans

1. cover above a table
2. During an earthquake,
3. it is advised to take
4. to save your life.
Q. 13 Select the INCORRECTLY spelt word.

Ans $\quad \times 1$. Finery
2. Hiest
$X$ 3. Cringe
X 4. Defer
Q. 14 Select the most appropriate meaning of the given idiom.

## All eyes

Ans
X 1. Watching with anger
2. Watching eagerly

X 3. Watching with no interest
X 4. Not watching at all
Q. 15 Select the most appropriate option that can substitute the underlined segment in the given sentence.
He was looking into his book for the last two hours but couldn't find it.
Ans
X 1. looking down on his book
2. looking above his book
3. looking for his book
4. looking after his book
Q. 16 Select the most appropriate collocating word to fill in the blank.

Ram was praised for his $\qquad$ leadership.
Ans $\times 1$.imaginary
2. visionary

X 3. magical
X4. broad
Q. 17 Select the most appropriate word segment for the underlined word in the given sentence.
Pintu has been advised to reduce smoking by his family doctor.
Ans

1. cut down
2. less down
3. lower down
4. up down

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

 RebellionAns
X 1. Uprising
2. Loyalty

X 3. Sedition
X 4. Allotment
Q. 19 Select the most appropriate ANTONYM of the given word.

Hospitality
Ans
X 1. Complaint
X 2. Cordiality
3. Coldness

X4. Wrathful
Q. 20 Select the sentence with the appropriate use of adverb of manner.

Ans $\times 1$. He done his work regularly.
2. He has just done his work.
3. He does his work carefully.
4. He has done his work on my table.

## 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.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No: 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans
X 1. impact
X 2. might
X 3. factors
4. force

## 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.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
X 1. inserted
2. embedded

X 3. planted
X 4. stuck

## 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.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) $\qquad$ pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans $\times 1$. offices
$X$ 2. details
3. processes
$\times 4$. hierarchies

## 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.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $\quad$ 1. mythical
2. proverbial

X 3. hypothetical
4. classified

## 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.

Digital India can be the prime (1) $\qquad$ behind making a reality of the government's promise of minimum government, maximum governance. Such a transformation requires technology to be firmly (2) $\qquad$ into government, something that the Digital India project lists as one of its foremost objectives. Embedding technology into government (3) will do three things; transform the government and make it more transparent and efficient, transform the lives of citizens especially those at the bottom of the (4) $\qquad$ pyramid and make our economy more efficient and competitive. A 2014 McKinsey Global Institute report predicts that the large-scale (5) $\qquad$ of technology through Digital India positions India with the biggest opportunity yet to accelerate economic growth.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans $\times 1$.enhancement
X 2. anticipation
3. adaptation

X4. monitoring

Combined Graduate Level Examination Tier I 2022

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $01 / 12 / 2022$ |
| Exam Time | $11: 45$ AM $-12: 45$ PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section : General Intelligence and Reasoning
Q. 1 Select the option figure which is embedded in the given figure (rotation is NOT allowed).


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

$\times 4$.

 the following expression? $[\{(38 \times 23)-(4 \div 3)\}+(6-3)] \div 2$
Ans

- 1.6
$\times 2.3$
$\times 3.8$
$\times 4.12$
Q. 3 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. GAVE : AGEV :: KEPT : EKTP :: ACID : ?
Ans
X 1. CIAD
X 2. CAID
X 3.ACDI

4. CADI
Q. 4 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. 4
$\times 2.5$
3. 1
< 4.3
Q. 5 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
12:16:: 18 : ? :: 24 : 64
Ans
X1.26
$\times 2.32$
X 3.28
4. 36
Q. 6 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

3.

$\times 4$.

Q. 7 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 8 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NMQR, NQYD, NUGP, NYOB, ?
Ans
X 1. NQRC
X 2. NMWN
3. NCWN

X 4. NWRQ
Q. 9 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
X 1.TVR
2. DFB
3. QSO
4. KGI
Q. 10 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.
JUMPED : LWORGF :: QUICKS : SWKEMU :: FUZING : ?
Ans
X 1. HKWIPB
X 2. IPKBWH
3. HWBKPI

X 4. HWKBPI
Q. 11 Which of the following letter-clusters will replace the question mark (?) and complete the following letter-cluster series?
DW, FU, GT, IR, JQ, ?
Ans
X1.LN
2. LO
$\times 3 . \mathrm{MO}$
4. LP
Q. 12 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 K are H.
II. No S is K .

Conclusion:
I. No $K$ is $S$.
II. All H are K.

Ans
X 1. Only conclusion II follows
2. Only conclusion I follows
3. Neither conclusion follows
4. Both conclusions I and II follows
Q. 13 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(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)
(240, 55, 65)
$(320,85,75)$
Ans
X 1. $(140,35,25)$
2. $(220,90,15)$
3. $(160,35,45)$
4. $(200,5,105)$
Q. 14 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:
Some doctors are painters.
Some doctors are labours.
All the labours are athletes.
Conclusions:
I. Some labours are painters.
II. Some athletes are doctors.
III. All the doctors are athletes.
IV. Some athletes are painters.

Ans $\quad$ 1. Only conclusions II and III follow
2. Only conclusion II follows

X 3. Only conclusion III follows
X 4. Only conclusions I and II follow
Q. 15 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$.

3.

$\times 4$.

Q. 16 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. $(153-151-147)$
2. (171-169-167)
3. (183-181-178)
4. (201-198-197)
Q. 17 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$150 \times 15+14-9 \div 2=6$
Ans
X $1.9,2,-, \times$
5. $9,2, \div, \times$

X $3.150,2, \div,-$
X4.15, 9, +, $\div$
Q. 18 In a certain code language, 'CYTOSKELETON' is written as 'TYCKSOELENOT', 'MALNUTRITION' is written as 'LAMTUNTIRNOI'. How will 'ALLITERATION' be written in that language?
Ans

1. LLAETITARNOI

X 2. LLAETIATRNOI
X 3. LLEATITARNOI
4. LLAETITRANOI
Q. 19 In a certain code language, 'PSYCHIC' is written as 'YSPCCIH' and 'CITIZEN' is written as 'TICINEZ'. How will 'MAHATMA' be written in that language?
Ans
X 1. HAMAATM
2. AHMAAMT
3. HAMAAMT
4. HAMAMAT
Q. 20 After arranging the given words according to dictionary order, which word will come at 'Fourth' position?

1. Unseen
2. Unseam
3. Unsafe
4. Unsound
5. Unsay

Ans

1. Unseen
2. Unsay
3. Unseam
4. Unsound
Q. 21 If $A \times B$ means that $A$ is the father of $B, A+B$ means that $A$ is the mother of $B, A \div B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the son of $P$ ?
Ans
$X 1 . Q+P \times R$
5. $P+Q \times R$

X $3 . \mathrm{R} \times \mathrm{Q}+\mathrm{P}$
X4. $\mathrm{P}+\mathrm{Q} \div \mathrm{R}$
Q. 22 Which of the following interchange of numbers and mathematical signs would make the given equation correct?
$30 \div 6 \times 4+15-35=25$
Ans $\times 1.25$ and $30, \times$ and-
X2. 4 and 6 , + and-
3. 25 and $35, \times$ and $\div$

X4. 30 and 35 , -and $\div$
Q. 23 A @ $B$ means ' $A$ is the sister of $B$ '.
$A$ \& $B$ means ' $A$ is the brother of $B$ '.
$A$ \# $B$ means ' $A$ is the wife of $B$ '.
$A^{\wedge} B$ means ' $A$ is the mother of $B$ '
$A+B$ means ' $A$ is the father of $B$ '.
If A + G \& I + R @ S @ \# U \& V, then which of the following statements is NOT correct?

Ans
$X 1 . I$ is the father-in-law of $U$.
2. A is the maternal grandfather of T .
$\times 3$. G is the brother of I .
. 4. R is the paternal granddaughter of A .
Q. 24 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.
35:21:: ? : 36 :: 40:24
Ans
$\times 1.65$
2. 50
3. 60
4. 55
Q. 25 Which of the following numbers will replace the question mark (?) in the given series? 4, 6, 12, 14, 28, 30, ?
Ans $\times 1.62$
2. 60
$\times 3.54$
X 4.52

Section : General Awareness
Q. 1 Which of the given sectors is largely driven by considerations of social welfare?

Ans

1. Foreign
2. Co-operative
3. Public
4. Private
Q. 2 The Hindu college was established in 1791 at $\qquad$ .
Ans
X 1. Calcutta
5. Dacca
6. Surat
7. Banaras
Q. 3 In which of the following languages did Jyotiba Phule write 'Gulamgiri' in 1873?

Ans

1. English
2. Marathi
$X$ 3. Hindi
3. Gujarati
Q. 4 Which of the following are Rabi crops only?

Ans
X 1. Maize and peas
2. Barley and gram
3. Paddy and cotton
4. Wheat and jowar
Q. 5 Identify an example of organisms that are free-swimming and bottom-dwelling forms.

Ans
$X$ 1. Phytoplankton
2. Zooplankton
$X$ 3. Fungi
4. Jellyfishes
Q. 6 Which of the following cities hosted the 2019 Military World Games organised by the International Military Sports Council?
Ans
X 1. Rio de Janeiro, Brazil
X 2. Bogota, Colombia
3. Wuhan, China

X 4. Mungyeong, South Korea
Q. 7 Abdul Karim Khan was the exponent of which school of Hindustani Music?

Ans

1. Jaipur Gharana
2. Gwalior Gharana
3. Delhi Gharana
4. Kirana Gharana
Q. 8 Who has taken oath as Bihar Chief Minister for 8th time?

Ans $\quad$ 1. Tejaswi Prasad Yadav
2. Pramod Sawant
3. Anugrah Narayan
4. Nitish Kumar
Q. 9 Which of the following statements about cell cycle is FALSE?

Ans
$X$ 1. Preparation of mitosis takes place in G2 phase.
2. In M phase, the cell grows physically larger and copies organelles.
3. In S phase, replication of DNA takes place.
4. In G1 phase, the cell grows physically larger and copies organelles.
Q. 10 Shyamji Krishna Varma established India House at $\qquad$ in 1905.
Ans $\times 1$. New York
X 2. Bombay
X 3. Paris
4. London
Q. 11 'Indira Gandhi Shehri Rozgar Guarantee Yojana 2022' has been implemented by which state government?
Ans

1. Rajasthan

X 2. Himachal Pradesh
3. Maharashtra
4. Uttar Pradesh
Q. 12 Choose the correct pair from the following options.

Ans
X 1. Third Five-year Plan - Rapid industrialisation and basic industries
2. Fourth Five-year Plan - Family planning programme

X 3. First Five-year Plan - Mahalanobis model
X 4. Second Five-year Plan - Focus on agriculture
Q. 13 Fundamental Duties were added in the Constitution of India under the leadership of which Prime Minister of India?
Ans
X 1. Narsimha Rao
2. Charan Singh
3. Indira Gandhi
4. Lal Bahadur Shastri
Q. 14 Which of the following festivals is celebrated in the month of August-September?

Ans
X 1. Makar Sankranti
X 2. Kite Festival
3. Bikaner Festival
4. Onam
Q. 15 'Mission Kushal Karmi' was launched to upgrade the skills of construction workers. This programme was launched by the government of $\qquad$ -.

Ans

1. Gujarat
2. Haryana
3. Punjab
4. Delhi
Q. 16 first edition of the Youth Olympic Games was held at $\qquad$ -.
Ans
X 1. Lausanne
5. Singapore
6. Nanjing
7. Innsbruck
Q. 17 Thorny bushes are found in $\qquad$ region.
Ans
8. mediterranean
9. polar
10. dry desert
11. high rainfall
Q. 18 Which of the following folk dance forms does NOT belong to the state of Gujarat?

Ans

1. Garba
2. Dandiya Raas
3. Bidesiya
4. Vinchhudo
Q. 19 Who among the following classical dancers was rewarded with the Padma Vibhushan Award in 2003?

Ans

1. Sonal Mansingh
2. Kumudini Lakhia
3. Shovana Narayan
4. Sunayana Hazarilal
Q. 20 The SI unit of acceleration is $\qquad$ -
Ans
$\times 1 . \mathrm{m}^{2} / \mathrm{s}$
$\times 2 . \mathrm{m}^{2} / \mathrm{s}^{2}$
X $3 \mathrm{~m} / \mathrm{s}$
5. $\mathrm{m} / \mathrm{s}^{2}$
Q. 21 The Tamil word 'muvendar' mentioned in the Sangam poems means $\qquad$ -.
Ans
X 1. dhamma mahamatta
$X$ 2. Headmen
6. Rich
7. three chiefs
Q. 22 The Vice President of India is elected for a period of $\qquad$ years.
Ans
X 1.6
8. 5
9. 2
10. 3
Q. 23 Which of the following is highest quality coal?

Ans
X 1. Lignite
X 2. Bituminous
X 3. Peat
4. Anthracite
Q. 24 What are the three parts of bacterial flagellum?

Ans
X 1. Head, tail and lower body
2. Filament, tail and hook
3. Basal body, tail and filament
4. Filament, hook and basal body
Q. 25 Common name of the compound $\mathrm{CaOCl}_{2}$ is $\qquad$ -.
Ans

1. bleaching powder
2. washing soda
3. baking soda
4. gypsum

Section : Quantitative Aptitude
Q. 1
$x$ is a negative number such that $k+k^{-1}=-2$, then what is the value of $\frac{k^{2}+4 k-2}{k^{2}+k-5}$ $?$
Ans
$\times 1.7$

- 2.1

X 3. -7
X4. -1
Q. 2

If $\left(x+\frac{1}{x}\right)=5 \sqrt{2}$, then what is the value of $\left(x^{4}+x^{-4}\right)$ ?
Ans
X 1.2542
$\times 2.2650$
X 3.2452

- 4.2302
Q. 3 A man rows a boat a certain distance downstream in 9 hours, while it takes 18 hours to row the same distance upstream. How many hours will it take him to row three-fifth of the same distance in still water?

Ans
X1.9.5
2. 7.2
$\times 3.10$
$\times 4.12$
Q. 4 Study the given chart and answer the following question.

Production of steel (in mn units)


What is the central angle corresponding to the production steel by Kerala?
Ans
$\times 1.82^{\circ}$
$\times 2.65 .8^{\circ}$
3. $75.2^{\circ}$
4. $72^{\circ}$
Q. 5 A shopkeeper makes a net profit of $44 \%$ on selling an article at successive discounts of $10 \%$ and $20 \%$. Find the net profit percentage, if the shopkeeper sells the same article at a discount of $15 \%$.

Ans
X 1.50\%
2. $70 \%$

X 3.30\%
4. $40 \%$
Q. 6

What will be the value of $\frac{\sin 30^{\circ} \sin 40^{\circ} \sin 50^{\circ} \sin 60^{\circ}}{\cos 30^{\circ} \cos 40^{\circ} \cos 50^{\circ} \cos 60^{\circ}}$ ?
Ans
$\times 1 . \frac{1}{\sqrt{2}}$
X2. $\sqrt{3}$

- 3.1

X4. $\frac{1}{\sqrt{3}}$
Q. 7 What is the ratio between the HCF and LCM of the numbers whose LCM is 48 and the product of the numbers is 384 ?

Ans
1.1:4
2. $1: 6$
3. 1:3
4. $2: 5$
Q. 8 The price of a scooter increases successively by $10 \%, 5 \%$ and $15 \%$. What is the total percentage increase in price of scooter?
Ans

1. $32 \frac{33}{40} \%$
2. $34 \frac{21}{40} \%$
3. $30 \frac{11}{40} \%$
4. $36 \frac{31}{40} \%$
Q. 9 If areas of similar triangles $\triangle A B C$ and $\triangle D E F$ are $x^{2} \mathrm{~cm}^{2}$ and $\mathrm{y}^{2} \mathrm{~cm}^{2}$ respectively, and $E F=a \mathrm{~cm}$, then $B C$ (in cm ) is:

Ans

1. $\frac{y^{2}}{a^{2} x^{2}}$
2. $\frac{\mathrm{y}}{\mathrm{ax}}$
$\frac{a x}{y}$
3. $\frac{a^{2} x^{2}}{y^{2}}$
Q. 10 The average of the marks of 25 students in a class, in an examination was calculated to be 19. Later, the teacher realized that the marks of two students were taken as 18 and 19 respectively, instead of 14 and 15 . Find the new actual average marks of the class

Ans $\times 1.17 .43$
2. 16.56
3. 18.68
4. 17.65
Q. 11 Simplify $\mathrm{x}^{9} \times \mathrm{x}^{5} \times \mathrm{x}^{-4} \times \mathrm{x}^{0} \times \mathrm{x}^{-6}$.

Ans

1. $x^{4}$
2. $X^{-4}$
3. $x^{-6}$
4. $x^{6}$
Q. 12 The value of $\left(\sin 30^{\circ} \cos 60^{\circ}-\cos 30^{\circ} \sin 60^{\circ}\right)$ is equal to:

Ans
< 1. $-\cos 30^{\circ}$
2. $-\sin 30^{\circ}$
3. $\cos 30^{\circ}$
4. $\sin 30^{\circ}$
Q.13 What is the ratio of the mean proportional between 1.6 and 3.6 and the third proportional of 5 and 8 ?

Ans
X1.2:15
2. $5: 16$
3. $3: 16$

X4.4:15
Q. 14 The difference between the cost price and selling price of a pair of shoes is Rs.1,200. If the profit is $15 \%$, the selling price is:

Ans
X 1.Rs.8,200
2. Rs.9,200
3. Rs.8,000
4. Rs.9,000
Q. 15 A person lent certain sum of money at the annual rate of 25 percent on simple interest. In 6 years the interest amounted to Rs. 360 more than the sum lent. What is the sum lent?

Ans

1. Rs. 600
2. Rs. 360
3. Rs. 720
4. Rs. 540
Q. 16 The side of an equilateral triangle is 12 cm . What is the radius of the circle circumscribing this equilateral triangle?

Ans
X $1.6 \sqrt{3} \mathrm{~cm}$
2. $4 \sqrt{3} \mathrm{~cm}$
$\times$ 3. $9 \sqrt{3} \mathrm{~cm}$
$\times 4.5 \sqrt{3} \mathrm{~cm}$
Q. 17 The following table shows the number of different items in different shops and their respective selling prices per unit.

| Shops | Total No. of | AC : Cooler | Selling Price per unit |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Items | $:$ Fan | Cooler | AC | Fan |  |
| A | 5000 | $4: 5: 1$ | 8000 | 25000 | 8500 |  |
| B | 1800 | $3: 2: 4$ | 10000 | 20000 | 16000 |  |
| C | 3400 | $6: 4: 7$ | 6000 | 42000 | 15000 |  |
| D | 3600 | $4: 2: 3$ | 12000 | 32000 | 8000 |  |
| E | 4000 | $5: 1: 4$ | 8000 | 26500 | 12200 |  |
| F | 1210 | $2: 4: 5$ | 11000 | 28000 | 11100 |  |

Find the percentage of total revenue which comes from Cooler from shop E, considering all given items are being sold from shop E and from all the given shops only given three items are being sold. (Rounded off to three decimal places)
Ans 4.226\%
$\times 2.3 .516 \%$
X 3. $10.45 \%$
X4.8.910\%
Q. 18 The following table shows the marks (in percentages) obtained by six students in four different subjects in an examination. Maximum marks in each subject are 100.

| Student | SUBJECT |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | SST | PHYSICS | CHEMISTRY | MATHS |
| A | 92 | 90 | 90 | 80 |
| B | 90 | 80 | 85 | 85 |
| C | 80 | 80 | 65 | 70 |
| D | 85 | 80 | 82 | 75 |
| E | 80 | 75 | 75 | 85 |
| F | 90 | 90 | 90 | 85 |

Answer the following question based on the table:
What is the number of students whose overall percentage obtained is $80 \%$ and above?
Ans

1. 4
$\times 2.5$
2. 2
3. 3
Q. 19 The table given below shows the number of persons participating in a survey from 6 different states.

| States | Persons |
| :---: | :---: |
| S1 | 100 |
| S2 | 200 |
| S3 | 400 |
| S4 | 500 |
| S5 | 600 |
| S6 | 800 |

What is the ratio of number of person participating in a survey from state S3 to the number of person participating in a survey from state $\mathbf{S 4}$ ?
Ans
X1.3:5
X2.5:4
X $3.4: 3$
2. $4: 5$
Q. 20 What is the remainder when 8127 is divided by 8 ?

Ans
$\times 1.5$

- 2.7
$\times 3.4$
$\times 4.6$
Q. 21 A, B and C can complete a piece of work separately in 10,20 and 40 days, respectively. In how many days will the work be completed if $A$ is assisted by both $B$ and $C$ every third day?
Ans
$8 \frac{2}{7}$

2. 9
3. $10 \frac{2}{3}$

X4. 6
Q. 22 What is $\sin \alpha-\sin \beta$ ?

Ans

1. $2 \cos \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$
2. $2 \sin \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$
$\times 3.2 \cos \frac{\alpha-\beta}{2} \sin \frac{\alpha+\beta}{2}$
X4. $2 \cos \frac{\alpha+\beta}{2} \cos \frac{\alpha-\beta}{2}$
Q. 23 A hemisphere of lead of radius 4 cm is cast into a right circular cone of height 72 cm . What is the radius of the base of the cone?

Ans
$X 1.1 .63 \mathrm{~cm}$
X2. 1.35 cm
2. 1.33 cm
$\times 4.1 .45 \mathrm{~cm}$
Q. 24 If the angles of a triangle are $(x-46)$ degrees, $(x+96)$ degrees and $8 x$ degrees, then what is the value of $2 x$ ?

Ans
X 1.15 degrees
2. 24 degrees
3. 26 degrees
4. 13 degrees
Q. $25 O$ is the centre of this circle. Tangent drawn from a point $P$, touches the circle at $Q$. If $P Q=24 \mathrm{~cm}$ and $O Q=10 \mathrm{~cm}$, then what is the value of $O P$ ?

Ans
$\times 1.26 \mathrm{~cm}$
2. 52 cm
3. 13 cm

X 4.15 cm

## Section : English Comprehension

Q. 1 Select the option that expresses the given sentence in passive voice.

Priya washes her clothes in the evening.
Ans
$\times 1$. The clothes was washed by Priya in the evening.
$X$ 2. The clothes is washed by Priya in the evening.
3. The clothes are washed by Priya in the evening.
$X 4$. The clothes were washed by Priya in the evening.
Q. 2 Select the option that contains a grammatical error in the underlined portion.

It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
Ans
X 1. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
X 2. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them
X 3. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
4. It would be impossible for them to continue living in this world if each of them knew
exactly what fate had it store for them.
Q. 3 Select the most appropriate option to fill in the blank.

The doctor directed the nurse to administer an $\qquad$ medicine to the patient.
Ans
X 1. official
X 2. eminent
3. alternative
4. insightful
Q. 4 Select the option that can be used as a one-word substitute for the given group of words.

A piece of a living tissue or plant that is transplanted surgically
Ans
X 1. Gratis
X 2. Gourmet
X 3. Gracious
4. Graft
Q. 5 Select the correct active form of the given sentence.

The clothes will be delivered by the shop on Monday.
Ans $\quad$ 1. The shop will be delivering the clothes on Monday.
2. The shop will deliver the clothes on Monday.

X 3. The shop would be delivering the clothes on Monday.
4. The shop would deliver the clothes on Monday.
Q. 6 Select the most appropriate ANTONYM of the underlined word. Failure to carry hall ticket to the exam is considered as a trivial issue.
Ans
X 1. underrated
X 2. kind
3. problematic
4. serious
Q. 7 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 panther is reported to have broken into a house yesterday in search of food and shelter.
B. The villagers heard his cries and ran to the house but the scared animal had run away through the window by then.
C. It secretly slouched into a room where a young man named Johnny was sleeping, who suddenly woke up and realised that the beast was roaming around his bed.
D. Just as the panther was about to leap on him, he swiftly shot out of bed and hid in a closet.
Ans
X1. ABDC
X 2. BDCA
3. ACDB

X4. DCAB
Q. 8 Select the INCORRECTLY spelt word.

Ans

1. Peircing

X 2. Sleek
$X$ 3. Pie
4. Itch
Q. 9 Select the most appropriate option to fill in the blank.

If you try to do something every day you will $\qquad$ progress.
Ans
X 1. hold
X 2. get

- 3. make

4. catch
Q. 10 Select the most appropriate synonym of the given word.

Competent
Ans
X 1. Complex
2. Poor
3. Capable
4. Beginner
Q. 11 Choose the correct meaning of the given idiom. In weal and woe
Ans

1. In sad and gloomy days
2. In happiness and good times
3. In prosperity and adversity

X 4. In despair and failure
Q. 12 Select the most appropriate synonym of the given word.

## Announce

Ans

1. Denounce
2. Secret
3. Hide
4. Advertise

## Q. 13 Rearrange the parts of the sentence in correct order.

While physical movement
P. activities may not require physical
Q. is important for children, all learning
R. the part of teachers and students
S. movement and facial expressions on

Ans $\times 1$.PRQS
X 2. RSPQ
X 3. QSRP
4. QPSR
Q. 14 Select the most appropriate meaning of the given idiom.

## A green horn

Ans

1. Uneducated person
2. Inexperienced person
3. Clever person
4. Skilled person
Q. 15 Select the correct direct form of the given sentence. He said that something might be missing in there.
Ans
5. He said, "Something may be missing in here."
$\times 2$. He said, "Something had to be missing in there."
$\chi$ 3. He said, "Something is been missing in here."
6. He said, "Something could be missing in here."
Q. 16 Select the sentences that contains no spelling errors.

Ans $\times 1$. Many communities in the world still feel that their voices and position has been dissenfranchised.
X 2. Many communities in the world still feel that their voices and position has been dysenfranchised.
3. Many communities in the world still feel that their voices and position has been dysenfrenchized.
4. Many communities in the world still feel that their voices and position has been disenfranchised.
Q. 17 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. They also wore felt caps to cover their ears.
B. They wore trousers tucked into leather boots.
C. This place was famous for its skilful archers and horsemen.
D. In the $5^{\text {th }}$ and $4^{\text {th }}$ centuries BC, today's south Ukraine was known as Scythia.

Ans
X 1. BCDA
X 2. CBDA
X 3.ABCD
4. DCBA
Q. 18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He used to reply / that the only place / for which he went / was the town library.
Ans
X 1. was the town library
2. for which he went

X 3. He used to reply
X 4. that the only place
Q. 19 Select the most appropriate synonym of the underlined word in the given sentence.

The sporadic instructions of the invigilators distracted the examinee.
Ans
X 1. Continuous
2. Indirect
3. Repetitive
4. Occasional
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Rajan is having three brothers and three sisters.
Ans
Х 1. Rajan has been having
2. Rajan has

X 3. Rajan was having
4. Rajan having

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affi affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

X 1. hindered
X 2. disconnected
X 3. dreary
4. savvy

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 $\qquad$ affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. their

X 2. they're
X 3. dare
4. there

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. thoroughly
2. through
3. holistically
4. daily

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 $\qquad$ affinity to various platforms on the internet. However, one skill that has bee 3 $\qquad$ affected is listening skills. They are extremely poor 4 $\qquad$ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

X 1. passive
2. active

X 3. distinctive
4. demonstrative

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

The modern-day student is extremely 1 $\qquad$ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 _affinity to various platforms on the internet. How
$\qquad$ listeners. If this issue is 3 affected is listening skills. They are extremely poor 4 not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 $\qquad$ on the planet.

SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. sympathisers
2. empathisers
3. donors
4. characters

Combined Graduate Level Examination Tier I 2022

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $01 / 12 / 2022$ |
| Exam Time | 2:30 PM - 3:30 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Which of the following numbers will replace the question mark (?) in the given series? 1331, 2197, ?, 6859

Ans 1.4913
2. 5832
3. 4096
4. 3375
Q. 2 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
$\times 1.2$
$\times 2.4$
$\times 3.6$

- 4.3
Q. 3 In a certain code language, 'CRUST' is written as '201921183' and 'BLAME' is written as
' 5131122 '. How will 'PLASTIC' be written in that language?

Ans
X 1.18204165138
$\times 2.73110209325$
X 3.71642578102

- 4.39201911216
Q. 4 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.
ROSE : IVQS :: SUIT : XLWT :: TIME : ?
Ans

1. IPKU
2. IPKV
3. JPKU
4. JPKV
Q. 5 Select the correct mirror image of the given combination when the mirror is placed at line MN as shown.
$\left.\operatorname{tghq} 92\right|_{N} ^{M}$
Ans
5. Seqdiz
×2. 乙 еph
X ${ }^{3 .} S \partial \mathrm{p} \mu \mathrm{g} \mathrm{f}^{\mathrm{f}}$
6. $\mathrm{Seph} \mathrm{g}_{\mathrm{f}}$
Q. 6 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. FDB
X 2. ZXV
7. JIG
8. LJH
Q. 7 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(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.)
(9, 81, 729)
$(14,196,2744)$
Ans $\quad$ 1. $(11,212,464)$
9. $(17,289,4913)$

X $3 .(25,625,9375)$
4. $(15,375,1125)$
Q. 8 If $A+B$ means that $A$ is the father of $B, A-B$ means that $A$ is the mother of $B, A \times B$ means that $A$ is the brother of $B$ then which of the following expression shows that $Q$ is the son of $P$ ?
Ans
$X 1 . P \times P-Q$
X2. $P+Q-R$
X 3. $\mathrm{P}-\mathrm{Q} \times \mathrm{R}$
4. P-Q + R
Q. 9 A \# B means ' $A$ is the sister of $B$ '. $A$ @ $B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If $\mathbf{W} @ \mathbf{Q}$ \# T \& Y @ M \% K, then how is $\mathbf{Q}$ related to K ?
Ans
X 1. Mother's sister
2. Sister
3. Mother
4. Father's sister
Q. 10 Select a suitable figure from the answer figures which would replace the question mark (?).


Ans
$\times 1$.

$\times 2$.

$\times 3$.

4.

Q. 11 By Interchanging the given two numbers which of the following equation will be not correct?
3 and 8
Ans
X $1.7+3-4 \div 2 \times 8=9$

- $2.6 \div 2 \times 8+3-1=17$

X $3.8-3+6 \times 2 \div 4=-2$
X4. $2+3-6 \div 2 \times 8=1$
Q. 12 In a certain code language, 'HYPOCRISY' is written as 'YPHOCIRYS' and 'IMPORTANT' is written as 'MPIORATTN'. How will 'INTEGRITY' be written in that language?

Ans

1. NTIEGIRYT

X 2. NTIEGRIYT
X 3. NTIGEIRYT
4. NITEGIRYT
Q. 13 What day of the week will be on 1st January 2033?

Ans

1. Saturday

X 2. Monday
$X$ 3. Sunday
4. Tuesday
Q. 14 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)
Earth : Planet :: Moon : ?
Ans

1. Rocket
2. Space
3. Satellite
4. Orbit
Q. 15 Three statements are given followed by three conclusions numbered I, II and III.

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 dogs are animals.
Some animals are pet.
All pets are white.
Conclusions:
I. Some dogs are white.
II. Some animals are white.
III. Some animals are dogs.

Ans
$X 1$. All conclusions follow.
X 2. Only conclusions I and II follow.
2. Only conclusions II and III follow.

X 4. Only conclusions I and III follow.
Q. 16 By interchanging the given two signs which of the following equation will be correct?
$\div$ and +
Ans $\quad \times 1.8+4 \times 5 \div 2-6=7$
2. $16+8 \times 2 \div 6-4=8$
3. $18+2 \times 6 \div 3-7=50$

X $4.11+8 \times 16 \div 4-7=20$
Q. 17 Which letter-cluster will replace the question mark (?) to complete the given series? ABCD, BDFD, CFID, ?, EJOD

Ans

1. DHED
2. DHDD
3. DLHD
4. DHLD
Q. 18 Select the option figure in which the given figure $(\mathrm{X})$ is embedded as its part (rotation is NOT allowed).


Ans
$\times 1$

$\times 2$

$\times 3$.

$\checkmark 4$.

Q. 19 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
X 1. (92-72-52)
X 2. (76-56-36)

2. $(98-78-56)$

X 4. (88-68-48)
Q. 20 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$(6)^{3} \div 12+[(\sqrt{81}) \times 4]-(28 \div 2)+24=43$
Ans

- 1.12 and 24
$\times 2.6$ and 24
$\times 3.81$ and 4
X4.28 and 24
Q. 21 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
37: 100 :: 24 : ? :: 29 : 76
Ans
$\times 1.64$

2. 61
$\times 3.75$
4.70
Q. 22 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(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)
$(23,14,9)$
$(37,19,18)$
Ans
X $1 .(125,25,5)$
3. $(125,100,5)$
4. $(125,25,100)$
5. $(125,5,25)$
Q. 23 Which figure should replace the question mark (?) if the series were to be continued?


Ans
$\times 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 24

Which of the following terms will replace the question mark (?) in the given series?
FOX ? JSX LUX NWX
Ans
X 1. HQS
2. HQX
$\times$ 3. HXQ
X 4. HEX
Q. 25 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 J are B.
II. Some D are B.

Conclusions:
I. Some D are not J.
II. Some B are not J.

Ans
$X$ 1. Only conclusion I follows
2. Neither conclusion follows
3. Only conclusion II follows
4. Both conclusions I and II follows

Section: General Awareness
Q. 1 The railway system connecting St-Petersburg to Vladivostok is $\qquad$ -

Ans $\quad$ 1. The Altai Railway
2. The Amur Railways
3. Trans - Baikal Railway
4. Trans - Siberian Railways
Q. 2 As of 10 April 2022, who among the following is serving as the Chief Minister of Chhattisgarh?
Ans
X 1. Kawasi Lakhma
2. Tamradhwaj Sahu
3. TS Singh Deo
4. Bhupesh Baghel
Q. 3 The Electricity (Amendment) Bill, 2022 was introduced in Lok Sabha on August 8, 2022. The Bill amends the Electricity Act established in $\qquad$ _.
Ans
X 1.2005
X2. 2007
X 3.2001

- 4.2003

| Question ID : | $\mathbf{2 6 4 3 3 0 1 0 5 2 4 7}$ |
| ---: | :--- |
| Status : | Not Attempted and |
| Marked For Review |  |

Q. 4 Which of the following sites is located on the hills near the Brahmaputra valley on the way to China and Myanmar?

Ans
X 1. Mehrgarh
2. Paiyampalli
3. Gufkral
4. Daojali Hading
Q. 5 With which of the following states is the folk dance Tarangmel associated?

Ans

1. Goa

X 2. Madhya Pradesh
3. Tamil Nadu
4. Kerala

| Question ID : | 26433064648 |
| ---: | :--- |
| Status : | Not Attempted and |
| Marked For Review |  |

Q. 6 Distance covered by object is $\qquad$ to time.

Ans $\times 1$. equal proportional
2. directly proportional
3. inversely proportional
4. double proportional
Q. 7 The 'Family Doctor' programme launched on a pilot basis in the first week of September 2022. This programme was launched by which state government?
Ans

1. Haryana
2. Odisha
3. Tamil Nadu
4. Andhra Pradesh
Q. 8 Which of the following facts is NOT associated with PC Mahalanobis who contributed to the formulation of India's Five Year Plans?
Ans $\quad \times 1$. He established the Indian Statistical Institute.
5. He started the journal Sankhya.

X 3 . He is known as the architect of Indian planning.
4. Mahalanobis was born in 1983 in Calcutta.
Q. 9 The Winter Youth Olympic Games 2024 will be held in $\qquad$ .
Ans

1. Gangwon
$X$ 2. Lausanne
X 3. Dakar
2. Singapore
Q. 10 "All India Muslim League" was established in 1906 at $\qquad$ .
Ans
3. Dacca
4. Bombay
5. Madras
6. Surat
Q. 11 Which of the following is NOT a Fundamental Right?

Ans
X 1. Right to Freedom of Religion
2. Right against Exploitation
3. Right to Equality
4. Right to Vote
Q. 12 The Trimbakeshwar is the origin of which of the following rivers?

Ans
X 1. Mahanadi
X 2. Tapti
X 3. Ravi
4. Godavari
Q. 13 Who among the following was the guru of Pandit Ravi Shankar?

Ans

1. Bismillah Khan
2. Amjad Ali Khan
3. Ali Akbar Khan
4. Allaudin Khan
Q. 14 Match Column-A with Column-B.

| Column-A (Vitamin) | Alternative name |
| :--- | :--- |
| i. Vitamin A | a. Ascorbic acid |
| ii. Vitamin B12 | b. Retinol |
| iii. Vitamin C | c. Cobalamin |
| iv. Vitamin D | d. Ergocalciferol |

Ans
X 1. i-b, ii-a, iii-c, iv-d
Х 2. i-a, ii-b, iii-c, iv-d
X 3. i-c, ii-b, iii-d, iv-a
4. i-b, ii-c, iii-a, iv-d
Q. 15 In AIBA Boxing Junior Boys and Girls Competitions, the bouts must consist of each round of $\qquad$ minutes.

Ans
$\times 1.5 \mathrm{~min}$
2. 3 min
3.1 min
4. 2 min
Q. 16 Which of the following river rises in the Indian Himalayan?

Ans
X 1. Kosi
2. Yamuna
3. Gandak
4. Ghaghra
Q. 17 Which of the following town was built by the ruler Vijayalaya in Kaveri delta?

Ans
X 1. Tiruchirappalli
2. Tiruppur
3. Madurai
4. Thanjavur
Q. 18 The first complete census taken in India is in the year $\qquad$ .

Ans

1. 1881

X 2. 1872
X 3.1900
4. 1860
Q. 19 Which of the following is NOT the function of the central bank of the country?

Ans
X 1. It controls money supply of the country.
2. It acts as a banker to the government.
3. It accepts deposits from the public.
4. It issues the currency of the country.
Q. 20 The 'Rann Utsav' is organised in which of the following states of India to promote tourism?

Ans

1. Gujarat
2. Rajasthan
3. Punjab
4. Maharashtra
Q. 21 Which of the following states has got first of its kind state-level bird atlas in India?

Ans

1. Kerala
2. Maharashtra
3. Rajasthan
4. Andhra Pradesh
Q. 22 Identify the correct statement about inertia.

Ans

1. Greater the mass, greater the inertia
2. Lesser the weight, greater the inertia
3. Lesser the mass, greater the inertia
4. Greater the mass, lesser the inertia
Q. 23 The Anantraj Sagar Tank was built by the $\qquad$ rulers.
Ans
5. Vijayanagara
6. Maratha
7. Pala
8. Chola
Q. 24 Who among the following choreographers from Bollywood was a three time National Award winner in 2003, 2007 and 2009? He/She worked in many Hindi movies including Sanjay Leela Bhansali's movie 'Devdas'?

Ans
X 1. Geeta Kapoor
2. Saroj Khan
3. Farah Khan
4. Vaibhavi Marchant
Q. 25 In what form is the energy derived from the food that we eat is stored in our body?

Ans

1. Maltose
2. Glucose
3. Glycogen
4. Starch

Section : Quantitative Aptitude
Q. 1 The simple interest on a certain sum for 3 years at $14 \%$ p.a. is ₹ 4,200 less than the simple interest on the same sum for 5 years at the same rate. Find the sum.

Ans
X 1. ₹16,000
2. ₹ 10,000

- ${ }^{\text {3. } ₹ 15,000}$

X4. ₹ 12,000
Q. 2 If $\mathbf{4 5 0}$ men can finish construction of an apartment in $\mathbf{2 0}$ days, then how many men are needed to complete the same work in 30 days?
Ans

1. 150
2. 300
3. 400
4. 250
Q. 3 If $a+b=11$ and $a b=35$, then what is the value of $\left(a^{4}+b^{4}\right)$ ?

Ans

1. 151
2. 261
3. 124
4. 102
Q. 4 Two numbers are in the ratio of $6: 5$. If their HCF is 3 , then what is the LCM of the two numbers?
Ans
$\times 1.64$
X2. 110

- 3.90
-4.80
Q. 5 A container contains 25 litre of milk. From this container, 5 litre of milk is taken out and replaced by water. This process is further repeated two times. How much milk is there in the container now?

Ans

1. 11.5 litre
2. 14.8 litre
3. 13.5 litre
4. 12.8 litre
Q. 6 If $x+y=36$, then find $(x-27)^{3}+(y-9)^{3}$.

Ans $\times 1.1$
$\times 2.81$
X 3.2 y
4. 0
Q. 7 The pie chart given below shows the number of bike sold by 8 different companies. The total number of bike sold by all these 8 companies are 2000. Number of bikes sold by a particular company is shown as a percent of total number of bike sold by all these 8 companies.
V


What is the difference between the average number of bikes sold by $P, Q, R$ and $S$ and the average number of bikes sold by $\mathrm{T}, \mathrm{U}, \mathrm{V}$ and W ?
Ans

1. 150
2. 200
3. 175
4. 125
Q. 8 In the figure, $\mathrm{AB}=\mathrm{AD}=7 \mathrm{~cm}$ and $\mathrm{AC}=\mathrm{AE}$ and $\mathrm{BC}=11 \mathrm{~cm}$, then find the length of ED .


Ans
(1. 12
$\times 2.10$
3. 11
4.2
Q. 9

If $\mathrm{y}+\frac{1}{\mathrm{y}}=3$, then what is the value of $\frac{1}{\mathrm{y}^{3}}+\mathrm{y}^{3}+2$ ?
Ans $\quad \times 1.24$
X 2.18

- 3.20
$\times 4.29$
Q. 10 The value of $\frac{2 \tan 60^{\circ}}{1+\tan ^{2} 60^{\circ}}$ is:

Ans
$\times 1 \cdot \cos 60^{\circ}$
X 2. $\tan 60^{\circ}$

- $3 . \sin 60^{\circ}$

4. $\sin 30^{\circ}$
Q. 11 The bar graph shows the percentage distribution of the expenditure of a company under various expense heads during 2003.


If the interest on loans amounted to $₹ 3.15$ crores, then the total amount of expenditure on salary, taxes and infrastructure is:

Ans 1. 9 crores

X 2. 7.8 crores
X 3.5 .5 crores
X4.8.5 crores

## Q. 12 What is the value of $\tan 240^{\circ}$ ?

Ans
$x$ 1. $\sqrt{2}$
X2. $(-) \sqrt{3}$
จ3. $\sqrt{3}$
$\times 4.3$
Q. 13 The table given below shows the income of two companies C1 and C2 in 6 years.

|  | Company |  |
| :---: | :---: | :---: |
| Year | C1 | C2 |
| P | 750 | 850 |
| Q | 200 | 250 |
| R | 330 | 350 |
| S | 550 | 650 |
| T | 530 | 270 |
| U | 370 | 390 |

Which of the following statement is NOT correct?
$I$. The income of $C 1$ in year $P$ is 33.33 percent of the income of $C 2$ in year $Q$.
II. The average income of C1 and C2 in year T is 400 .

Ans

1. Only I
2. Both I and II
3. Neither I nor II
4. Only II
Q. 14 The single discount equivalent to two successive discounts of $15 \%$ and $12 \%$ on an article is:
Ans
X 1. $3 \%$
5. $25.2 \%$

X 3. $74.8 \%$
X4. $27 \%$
Q. 15 A copper sphere of diameter 18 cm is drawn into a wire of diameter 6 mm . Find the length of the wire.
Ans
X 1.143 m
2. 108 m

X 3.324 m
$\times 4.234 \mathrm{~m}$
Q. 16 A solid metallic sphere of radius 13 cm is melted and recast into a cone having diameter of the base as 13 cm . What is the height of the cone?
Ans

1. 246 cm
2. 152 cm
3. 174 cm
4. 208 cm
Q. 17 If $\tan \theta+\sec \theta=7, \theta$ being acute, then the value of $5 \sin \theta$ is:

Ans

1. $\frac{25}{24}$
2. $\frac{24}{25}$
3. $\frac{1}{24}$
4. $\frac{24}{5}$
Q. 18 From the following figure find $\mathrm{x}+\mathrm{y}+\mathrm{z}$.

B
C
D

Ans

1. $100^{\circ}$
$\times 2.130^{\circ}$
2. $120^{\circ}$
3. $110^{\circ}$
Q. 19 The ratio of expenditure to savings of a woman is $5: 1$. If her income and expenditure are increased by $10 \%$ and $20 \%$, respectively, then find the percentage change in her savings.
Ans
1.55\%
4. $60 \%$
5. $50 \%$
6. $40 \%$
Q. 20 What will be the remainder when $27^{27}+27$ is divided by $28 ?$

Ans
X 1.28
$\times 2.27$
$\times 3.25$

- 4.26
Q. 21 Study the following table and answer the question below.

| School name | Total number of <br> students enrolled | Percentage of enrolled <br> students, opted Biology | Ratio of male to female <br> students who opted Biology |
| :--- | :--- | :--- | :--- |
| A | 900 | 30 | $7: 8$ |
| B | 400 | 36 | $5: 7$ |
| C | 1000 | 24 | $5: 19$ |
| D | 800 | 18 | $3: 9$ |

Find the ratio of the number of female students who opted biology in school B and school D.
Ans

1. $7: 9$
2. $9: 7$
3. $3: 5$
4. $5: 3$
Q. 22 In triangle $A B C$, the bisector of angle $B A C$ cuts the line $B C$ at $D$. If $B D=6$ and $B C=14$ then what is the value of $A B: A C$ ?
Ans
5. $3: 4$
2.7:3
6. $3: 10$
7. $3: 7$
Q. 23 A takes 4 times as much time as $B$ or 5 times as much time as $C$ to finish a piece of work. Working together, they can finish the work in 4 days. B can do the work alone in:
Ans
8. 10 days
9. 15 days
10. 12 days
11. 20 days
Q. 24 A swimmer swims from a point $P$ against the current for 6 min and then swims back along the current for next 6 min and reaches at a point $Q$. If the distance between $P$ and $Q$ is 120 m then the speed of the current (in $\mathrm{km} / \mathrm{h}$ ) is:
Ans
12. 0.4
13. 0.2
14. 1
15. 0.6
Q. 25 Kapil sells a mobile to Sachin at a gain of $15 \%$ and Sachin again sells it to Rohit at a profit of $12 \%$. If Rohit pays Rs.322, what is the cost price of the mobile for Kapil?

Ans

1. Rs. 350
2. Rs. 450
3. Rs. 250
4. Rs. 325

Section : English Comprehension
Q. 1 Select the most appropriate ANTONYM of the word 'fertile' in the given sentence.

The teacher asked, "Wheat is grown in which kind of land - rich, wet, barren and fecund?"

Ans

1. Fecund
2. Rich
3. Barren

X 4. Wet
Q. 2 Select the correct passive form of the given sentence. The manager explained the latest assignment to Lana.

Ans

1. The latest assignment was explained to Lana by the manager.
2. The latest assignment had explained to Lana by the manager.
3. The latest assignment had been explained to Lana by the manager.
4. The latest assignment had been explain to Lana by the manager.
Q. 3 Select the most appropriate synonym of the given word.

Transient
Ans
X 1. Transform
2. Temporary
3. Transmit
4. Trap
Q. 4 Select the correct direct form of the given sentence.

She asked me why I had been smoking that day.
Ans 1. She said to me, "Why were you smoking today?"
2. She said to me, "Why are you smoking today?"
3. She said to me, "Why you smoke today?"
4. She says to me, "Why were you smoking this day?"
Q. 5 Choose the option that can substitute the underlined segment correctly and complete the meaning of the sentence.

Navika is a superb and impressive child in her class.
Ans

1. Splendid
2. Brilliant

X 3. Dazzling
4. Vivid
Q. 6 Select the most appropriate ANTONYM of the given word.

Casual
Ans
X1. Spiritual
X 2. Personal
-
3. Formal
4. Traditional
Q. 7 Select the appropriate option to replace the underlined word with the adverb of time.

I went to Paris regularly.
Ans
$\times 1$. twice
X 2. often
3. yesterday
4. happily
Q. 8 Select the most appropriate ANTONYM of the given word.

Conceit
Ans $\quad \times$ 1. Concealment
2. Reveal
3. Modesty
4. Hidden
Q. 9 Select the option that can be used as a one-word substitute for the given group of words.

Feeling or showing extreme tiredness
Ans

1. Vitalised
2. Nervous
3. Weary
4. Drowsy
Q. 10 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. We are naturally social creatures.
Q. A bit of solitude-as everyone from Thoreau to Proust have written about-is one of our most powerful tools for disconnecting and recharging.
$R$. This does not mean you need to lock yourself away in a room at the end of the day.
$S$. However, all that time with people takes its toll.
Ans
X 1. PQRS
X 2. QSRP
X 3.SPQR
5. PSQR
Q. 11 Rearrange the parts of the sentence in correct order.

Michael Holding, who
P. 20 years, has finally drawn curtains on
Q. commentary panel for more than
R. was a member of the Sky Sports
$S$. his stint behind the microphone
Ans

1. RQPS
2. QPRS
3. SPQR
4. PSQR
Q. 12 Select the option that expresses the given sentence in passive voice.

Robin rolled the marble through a small plastic pipe.
Ans
X 1. The marble was rolled by Robin in a small plastic pipe.
X 2. A small plastic pipe was rolled through a marble by Robin.
3. The marble was rolled through a small plastic pipe by Robin.

X 4. The marble through a small plastic pipe was rolled by Robin.
Q. 13 Choose the correct meaning of the given idiom.

Bag and baggage
Ans
X 1. With burden
2. Without any aim
3. Without happiness
4. With all of one's possessions
Q. 14 Select the most appropriate option to fill in the blank.

It is very difficult for her to $\qquad$ -.
Ans

1. keep a secret
2. touch a secret
3. make a secret
4. cry a secret
Q. 15 Choose the incorrectly spelt word.

Ans

1. Slaughter
2. Cropping
3. Traffickng

X 4. Tyrannical
Q. 16 Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.

He was murdered in cold blood.
Ans
X 1. in cold weather
2. deliberately
3. when blood was cold
4. regretfully
Q. 17 Rectify the sentence by selecting the correct spelling of the underlined word.

David was put off by the glamming eyes in the dark.
Ans
$X$ 1. glamning
$X$ 2. gleaning
3. gleaming
4. glaming
Q. 18 Select the most appropriate option to fill in the blank. The planets are $\qquad$ around the sun.
Ans

1. revolving
2. circling
3. rotating
4. rounding
Q. 19 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The child was / gazing longingly / at the toy.
Ans $\quad$ 1.gazing longingly
2. at the toy
3. No error
4. The child was
Q. 20 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
If you are the one who is planning to lose weight, remember to keep your snacking
Ans
X1. outgoing
X 2. prejudiced
X 3. uncontrolled
4. moderate

## 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.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ the dis
cloaks its manners (3) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
History, (4) $\qquad$
deeper than History.
SubQuestion No : 21
Q. 21 Select the most appropriate option to fill in blank number 1.

Ans $X$ 1. optionally
$X 2$ 2. needlessly

- 3. essentially
$X$ 4. unnecessarily


## 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.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ than this: that the one, the Novel,
cloaks its manners (3) $\qquad$ the disguise of invented characters, while the other,
History, (4) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
deeper than History.
SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans

1. difference
2. pragmatism
3. matter
4. sample

## 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.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is
(1) $\qquad$ the history of manners, turned into a story and a play, as is History itself
often enough. And there is no other (2) $\qquad$ than this: that the one, the Novel, cloaks its manners (3)
$\qquad$ the disguise of invented characters, while the other,
History, (4) names and addresses. Only, the Novel (5) $\qquad$ much
deeper than History.
SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. under

X 2. beside
$\times 3$. around
X4. among

## 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.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ the disg
cloaks its manners (3) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
History, (4) $\qquad$
deeper than History.
SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans

1. provides
2. negates
3. removes
4. strangulates

## 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.
If writers only dared to dare, a Suetonius or a Tacitus of the Novel could exist, for the Novel is (1) $\qquad$ the history of manners, turned into a story and a play, as is History itself often enough. And there is no other (2) $\qquad$ than this: that the one, the Novel,
cloaks its manners (3) $\qquad$ names and addresses. Only, the Novel (5) $\qquad$ much
deeper than History.
SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5.

Ans
X 1. bargains
X 2. listens
3. probes

X4. imbibes

Combined Graduate Level Examination Tier I 2022

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $01 / 12 / 2022$ |
| Exam Time | 5:15 PM - 6:15 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

Section: General Intelligence and Reasoning
Q. 1 ' $A$ @ $B$ ' means ' $A$ is the husband of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the mother of $B$ '.
' $A$ \# $B$ ' means ' $B$ is the daughter of $A$ '.
If G \# H \& I @ J \& K, then how is H related to J?
Ans
X 1. Mother
X 2. Brother
X 3. Sister
4. Mother-in-law
Q. 2

Select the correct mirror image of the given combination when the mirror is placed at line ' MN ' as shown.
bjF87s $\left.\right|_{N} ^{M}$
Ans

1. $s \angle 87 \mathrm{jd}$
2. 2587 id
3. $5 \angle 87$ ! $d$
4. $2\lceil 8 \doteq i q$
Q. 3 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)
(40, 120, 400)
(18, 20, 78)
Ans
5. $(29,23,98)$
6. $(56,14,108)$
7. $(25,27,92)$
8. $(11,720,660)$
Q. 4 Select the figure that will come next in the following figure series.


Ans
$\times 1$.

2.

$\times 3$

$\times 4$

Q. 5 Select the number from among the given options that can replace the question mark (?) in the following series.
5, 10, 17, 26, 37, 50, ?
Ans $\times 1.58$

- 2.65
$\times 3.76$
$\times 4.54$
Q. 6 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 white are car.
II. No truck is car.

Conclusion:
I. All truck are white.
II. Some car are white.

Ans

1. Only conclusion II follows
2. Neither conclusion follows
3. Only conclusion I follows
4. Both conclusions I and II follows
Q. 7 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
24 : 840 :: 27 : ? :: 33 : 1452
Ans
$\times 1.756$

- 2. 297

3. 1026
4.729
Q. 8 Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.
Ans
4. MPT

X 2. FIM
X 3. GJN
4. DGI
Q. 9 In a certain code language, 'ADVANCE' is written as 'VDAAECN' and 'BABYSIT' is written as 'BABYTIS'. How will 'AFFABLE' be written in that language?
Ans
X 1. FFAALEB
2. FFAAELB

X 3. FFAAEBL
X 4. AAFFELB
Q. 10 Select the option figure that is embedded in the given figure. (Rotation is not allowed).


Ans
$X 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 11 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.
BEAR : DFCS :: FEEL : HFGM :: MANY : ?
Ans
$X$ 1. OBPY
X 2. OCPZ
3. OBPZ

X4. OBQZ
Q. 12 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Inundate
2. Invidious
3. Individual
4. Inveterate
5. Invective
6. Invincible
7. Inviolable

Ans
X 1.1, 5, 4, 2, 3, 6, 7
X 2.1,5,3,4, 2, 6, 7

- 3. $3,1,5,4,2,6,7$

4. $3,1,5,4,6,2,7$
Q. 13 If $A+B$ means that $A$ is the brother of $B, A \times B$ means that $A$ is the sister of $B, A \div B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the sister of $R$ ?

Ans
$X 1 . P \times Q+R$
X2. $P+Q \times R$
X $3 . P \times Q \div R$
2. $P \times Q+R$
Q. 14 Which letter cluster will replace the question mark (?) to complete the given series? NAME, NEME, ?, NOME, NUME
Ans
X 1. NMME
X 2. NKME
3. NIME

X4. NJME
Q. 15 Which figure should replace the question mark (?) if the series were to be continued?

| P | O | A | Z | C | P | $\square$ | 0 | A | O | P | $\square$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\bullet$ | S | C | O | 2 | $=$ | Z | S | P | 0 | 2 | C | ? |
| Z | $=$ | $\square$ | $\square$ | 0 | A | O | C | $=$ | $=$ | Z | A |  |

Ans

$\times 2$.


$\times 4$.
A
Q. 16 Select the correct combination of mathematical signs to sequentially replace the *
signs and balance the given equation.
35 * 5 * 7 * 2 * $19=42$
Ans

1. $\times, \div-,+$
2. $\div, \times,+,+$
3. +, -, +, -
(4. $\div, \times,-,-$
Q. 17 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans
1.

$\times 2$

$X 3$.

$\checkmark 4$.

Q. 18 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(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).
$(16,7,37)$
$(28,9,55)$
Ans
X 1. $(19,6,36)$
2. $(13,4,25)$

X $3 .(20,7,45)$
Xu. $(23,8,48)$

## Q. 19 Read the given statement(s) 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 statement(s).Statements:
Some stones are cubes.
No cube is a glass.
All bats are cubes.
Conclusions:
I. Some stones being bats is a possibility.
II. No bat is a glass.
III. All cubes are bats.
IV. No stone is a glass.

Ans
X 1. Only Conclusions I, II and IV follow
X 2. Only Conclusions II and III follow
3. Only Conclusions I and II follow

X 4. Only Conclusion I follows
Q. 20 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.
LAMB : DPEQ :: MOTH : JWSR :: NERD : ?
Ans
X 1. FVJS
2. FUJS
3. FVIS
4. FUIS
Q. 21 In a certain code language, 'FUEL' is coded as ' 50 ' and 'JEER' is coded as ' 44 '. How will 'FARE' be coded in that language?

Ans

+ 1.38

2. 34
3.40
3. 36
Q. 22 Which of the following interchanges of numbers and mathematical signs would make the given equation correct?
$729 \times 81 \div 20+16-6=50$
Ans
4. 6 and $20, \times$ and $\div$
5. 20 and 50, + and -
6. 16 and $50, \times$ and +
7. 16 and $20,+$ and $\div$
Q. 23 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
RTM, VZX, ZFI, DLT, ?
Ans
8. HRE
9. RST
10. TMO
11. HRS
Q. 24 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. $(15-220-215)$
2. $(10-100-95)$
3. $(20-400-395)$
4. $(25-625-620)$
Q. 25 By interchanging the given two signs and numbers which of the following equation will be not correct?
$x$ and,- 8 and 4
l. $4+3 \times 8-2 \div 1=3$
II. $8 \times 2-4+6 \div 2=11$

Ans
X 1. Both I and II
2. Only II
3. Neither I nor II
4. Only I

Section : General Awareness
Q. 1 The Asian Games 2018 were held in which of the following countries?

Ans
X 1. South Korea
2. Indonesia
3. Japan
4. China
Q. 2 When is Raksha Bandhan celebrated in India as per the Hindu calendar?

Ans
$X$ 1. Amavasya, Shravan month
X 2. Poornima, Ashadha month
X 3. Amavasya, Ashadha month
4. Poornima, Shravan month
Q. 3 Protection of life and liberty is included under which Article of the Constitution of India?
Ans

1. Article 21
2. Article 23
3. Article 24
4. Article 20
Q. 4 Which of the following is NOT the correct match?

Ans

1. The acid present in tomato - Formic acid

X 2. The acid present in orange - citric acid
X 3. The acid present in grapes - Tartaric acid
X 4. The acid present in rancid butter - Butyric acid
Q. 5 The percentage of earth's water found in the oceans is $\qquad$ -.
Ans $\times 1.94$ percent
2. 97.2 percent
3. 90.2 percent
4. 92.2 percent
Q. 6 Decadal growth rate of population between 2001-2011 is $\qquad$ -
Ans
X 1. 18.70 percent
2. 15.70 percent
3. 17.70 percent
4. 16.70 percent
Q. 7 The Paramhans Mandali was founded in 1840 at $\qquad$ to work for the abolition of caste.
Ans

1. Delhi
2. Calcutta
3. Bombay
4. Madras
Q. 8 Who was the Mughal emperor, when a massive rebellion against british rule broke out in 1857?
Ans
X 1. Farrukhsiyar
5. Bahadur Shah Zafar

X 3. Akbar II
X 4. Aurangzeb
Q. 9 The motion of $\qquad$ body is an example of uniformly accelerated motion.
Ans $\times 1$. resting
X 2. Decelerating
3. parabolic
4. freely falling
Q. 10 Gross primary deficit is the difference between $\qquad$ -.

Ans
X 1. revenue deficit and interest receipts
Х 2. gross fiscal deficit and interest receipts
X 3. revenue deficit and interest payments
4. gross fiscal deficit and net interest liabilities
Q. 11 Which of the following folk dances does NOT belong to the state of Madhya Pradesh?

Ans

1. Laho

X 2. Phulpati
X 3. Matki
4. Jawara
Q. 12 Which of the following venues was decided to host the 2022 Asian Games?

Ans 1.Hangzhou, China
X 2. Guangzhou, China
X 3. Incheon, South Korea
X 4. Jakarta, Indonesia
Q. 13 The Revolutionary Socialist Party was established in $\qquad$ _.
Ans $\times 1.1936$
2. 1925
3. 1940
4. 1929
Q. 14 Singers Sujatha and Ananthu have been awarded the Kalaimamani Award for the year by the Tamil Nadu Government.
Ans
X 1.2022
2. 2019
-
3. 2021
4. 2020
Q. 15 Which of the following element is more reactive than copper?

Ans
X 1. Gold
2. Zinc
3. Silver
4. Platinum
Q. 16 The New Delhi International Arbitration Centre (Amendment) Bill, 2022 was introduced in Lok Sabha on $\qquad$ -.

Ans
X 1. June 8, 2022
2. October 7, 2022
3. September 6, 2022
4. August 5, 2022

## Q. 17 Who has been named as the next chairperson of the Securities and Exchange Board of

 india in March 2022?Ans

1. Debasish Panda
2. Madhabi Puri Buch
3. T. Raja Kumar
4. Ashwani Bhatia
Q. 18 Mangubhai Chhaganbhai Patel was appointed as the Governor of $\qquad$ in July 2021.
Ans
5. Madhya Pradesh
6. Himachal Pradesh
7. Uttar Pradesh
8. Arunachal Pradesh
Q. 19 How much purse money was given to a Sangeet Natak Akademi fellow in 2019?

Ans
$X$ 1. ₹4 lakh
2. ₹3 lakh

X 3. ₹2 lakh
X 4. ₹1 lakh
Q. 20 Which of the following animals have a single opening in their digestive system that serves both as a mouth and an anus?
Ans

1. Arachnids
2. Echinoderms
3. Platyhelminthes
4. Arthropods
Q. 21 Which of the following city of India was a coastal settlement where ships unloaded goods from distant lands between 2200 and 1900 years ago?
Ans
X 1. Karaikal
X 2. Veerampattinam
X 3. Yanam
5. Arikamedu
Q. 22 Which of the following is soda lime?

Ans

1. $\mathrm{Ca}(\mathrm{OH})_{2}+\mathrm{CaO}$

X 2. $\mathrm{KOH}+\mathrm{CaO}$
$\times$ 3. $\mathrm{CaCl}_{2}+\mathrm{CaO}$
4. $\mathrm{NaOH}+\mathrm{CaO}$
Q. 23 The Centre introduced a new bill called the Criminal Procedure (Identification) Bill 2022. This Bill will repeal the Identification of Prisoners Act which was established in

Ans -. 1930
2. 1950
3. 1945
4. 1920
Q. 24 Where was the first Jute factory in India established?

Ans

1. Cuttack, Odisha
2. Ongole, Andhra Pradesh
3. Rishra, West Bengal
4. Raigarh, Chhattisgarh
Q. 25 In which of the following states was 'Kudumbashree,' women-oriented, community-based, poverty-reduction programme implemented?

Ans
X 1. Maharashtra
2. Kerala
3. Bihar
4. Uttar Pradesh

Section : Quantitative Aptitude
Q. $116 \cos ^{3} \frac{\pi}{6}-12 \cos \frac{\pi}{6}=$ $\qquad$ .

Ans

1. 0
$\times 2.2$
$\times 3.1$
2. -1
Q. 2 Two equal circles of radius 8 cm intersect each other in such a way that each passes through the centre of the other. The length of the common chord is:

Ans
-1. $8 \sqrt{3} \mathrm{~cm}$
$\times$ 2. $\sqrt{3} \mathrm{~cm}$
X3. $2 \sqrt{3} \mathrm{~cm}$
$\times 4.4 \sqrt{3} \mathrm{~cm}$
Q. 3 The table given below shows the number of bicycle sold by six companies.

| Companies | Bicycle |
| :---: | :---: |
| A | 60 |
| B | 90 |
| C | 120 |
| D | 165 |
| E | 180 |
| F | 120 |

What are the ratio of number of bicycle sold by $B$ to the number of bicycle sold by $D$ ?
Ans
X1.11:5
X2.11:6
3. $5: 13$
4. $6: 11$
Q. 4 A chord of length 42 cm is drawn in a circle having diameter 58 cm . What is the minimum distance of other parallel chord of length 40 cm in the same circle from 42 cm long chord?
Ans
$\times 1.4 \mathrm{~cm}$

- 2.1 cm
$\times 3.3 \mathrm{~cm}$
$\times 4.2 \mathrm{~cm}$
Q. 56 men and 8 women can do a piece of work in 10 days, whereas 26 men and 48 women can do the same work in 2 days. What will be the time taken by 15 men and 20 women to do the same work?

Ans
X 1.6 days
2. 10 days
3. 4 days
4. 8 days
Q. 6 The following table gives the subscription of different schemes of a Mutual Fund Company over the months.
(Rupees in crores)

| Months | Schemes |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | V | W | X | Y | Z |  |
| September | 200 | 70 | 30 | 290 | 10 | 600 |
| October | 120 | 130 | 70 | 150 | 290 | 760 |
| November | 45 | 35 | 25 | 125 | 160 | 390 |
| December | 160 | 110 | 40 | 115 | 130 | 555 |
| January | 80 | 90 | 70 | 100 | 140 | 480 |
| February | 130 | 150 | 30 | 40 | 390 | 740 |

What is the difference in the subscription of scheme X between December and
February?
Ans

1. 10 crores
2. 18 crores
3. 8 crores
4. 25 crores
Q. 7 The value of $\frac{428 \times 428 \times 428+348 \times 348 \times 348}{428 \times 428-428 \times 348+348 \times 348}$ is:

Ans

1. 776
2. 62080
3. 80
4.40
Q. 8 If the 5 -digit number $750 P Q$ is divisible by 3,7 and 11 , then what is the value of $P+$ 2Q?

Ans

1. 17
$\times 2.15$
$\times 3.18$
X4. 16
Q. 9 Raju, Ravi and Ashok contested an election. 5\% votes polled were invalid. Raju got $30 \%$ of the total votes. Ravi got $32 \%$ of the total votes. The winner got 5136 more votes than the person who received the least number of votes. Find the total number of votes polled.

Ans

1. 171200
2. 64200
3. 171220
4. 172100
Q. 10 A horse was sold for Rs. 60,000 at a profit of $20 \%$. For what price should he have sold to gain a $\mathbf{3 0 \%}$ profit?
Ans
X 1.Rs.64,000
5. Rs.65,000

X 3. Rs.50,000
4. Rs.55,000
Q. 11 If $\frac{a^{2}+b^{2}+c^{2}-1024}{a b-b c-c a}=-2$ and $a+b=5 c$, where $c>0$, then the value of $c$ is
$\qquad$ -.
Ans
1.8
$\times 2.4$
$\times 3.12$
$\times 4.5$
Q. 12 The pie chart given below shows the production of 6 different factories. The total production of all these 6 factories are 22000. The production of a particular factory is shown as a percent of total production of all these 6 factories.

$P 1=$ The value of average production of $A, C, D$ and $F$.
$P 2=$ The difference between the production of $B$ and $E$.
What is the value of $(P 1+P 2)$ ?
Ans
X 1.2525
X2. 6545
X 3.3525
(2. 4.4565
Q. 13 If $p+q=6$ and $p q=4$, then what is the value of $p^{3}+q^{3}$ ?

Ans $\times 1.81$
X2. 64

- 3.144

X4. 256
Q. 14 The ratio of two numbers is $5: 4$ and their HCF is 4 . What is their LCM?

Ans

1. 80
2. 48
(3.36
4.60
Q. 15 If $\cos \mathrm{A}=\frac{9}{41}$, find $\cot \mathrm{A}$.

Ans

1. $\frac{9}{40}$
2. $\frac{41}{40}$
3. $\frac{40}{9}$

X4. $\frac{9}{41}$
Q. 16 A truck runs 492 km on 36 Litter of diesel. How many kilometres can it run on 33 Litter of diesel?
Ans
X 1.454 km
X 2.453 km
3. 451 km
4.452 km
Q. 17 In the given triangle, CD is the bisector of $\angle B C A$. $\mathrm{CD}=\mathrm{DA}$. If $\angle B D C=76^{\circ}$, what is the degree measure of $\angle C B D$ ?


Ans
$\times 1.32^{\circ}$
$\times 2.76^{\circ}$
$\times 3.80^{\circ}$
4. $66^{\circ}$
Q. 18 A dealer buys an old cooler listed at ₹ 650 and gets successive discounts of $20 \%$ and $10 \%$. He spends ₹ 38 on its repairs and sells it at a profit of $20 \%$. Find the selling price of the cooler.
Ans
$X 1$ ₹ 7.80
$\times$ 2. ₹700
X 3. ₹790

- 4 ₹ 607.2
Q. 19 The pie chart given below shows the sales of 7 different companies. The total sales of all these 7 companies are 2880. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.


The average sales of $G$ and $H$ is how much percent more than the average sales of $D$ and $I$ ?
Ans $\quad$ X 1.18 .86 percent
X 2. 24.25 percent
X 3. 56.21 percent
4. 22.86 percent
Q. 20 What is the edge of a cube whose volume is equal to the sum of the volumes of the cubes of edge $6 \mathrm{~cm}, 8 \mathrm{~cm}$ and 10 cm ?
Ans
$\times 1.5 \mathrm{~cm}$
X2.3 cm
$\times 3.6 \mathrm{~cm}$

- 4.12 cm
Q. 21 If Ram covers a certain journey at $60 \%$ of his usual speed, he reaches the destination late by 36 min . His usual time (in min ) to reach the destination is:

Ans

1. 60
2. 72
3. 50
4. 54
Q. 22

If $\tan ^{2} \theta=1-a^{2}$, then the value of $\sec \theta+\tan ^{3} \theta \operatorname{cosec} \theta$ is:

Ans
$\times 1 .(2-a)^{\frac{3}{2}}$
${ }^{2} .\left(a^{2}-1\right)^{\frac{3}{2}}$
3. $\left(2-a^{2}\right)^{\frac{3}{2}}$
4. $a^{\frac{3}{2}}$
Q. 23 Two-thirds of a certain distance was covered at the speed of $45 \mathrm{~km} / \mathrm{h}$, one-fourth at the speed of $60 \mathrm{~km} / \mathrm{h}$ and the rest at the speed of $75 \mathrm{~km} / \mathrm{h}$. Find the average speed per hour for the whole journey. (correct to 2 decimal places)

Ans
X $1.51 .25 \mathrm{~km} / \mathrm{h}$
X $2.45 .75 \mathrm{~km} / \mathrm{h}$
3. $58.25 \mathrm{~km} / \mathrm{h}$
4. $49.77 \mathrm{~km} / \mathrm{h}$
Q. 24 The area of a triangle is $480 \mathrm{~cm}^{2}$ and the ratio of its sides is $10: 24: 26$. What is the perimeter of the triangle?

Ans

1. 120 cm
2. 30 cm
3. 150 cm
4.60 cm
Q. 25 Damani purchased an item costing ₹ 7,500 and paid ₹ 3,500 as a down payment for the same. If the simple interest charged for the remaining amount is $9 \%$ per annum and Damani cleared all dues after 4 months of the purchase, how much did Damani pay after 4 months as interest?
Ans
4. ₹120

X2. ₹100
X 3 . ₹ 132
4. ₹125

Section : English Comprehension
Q. 1 Rearrange the parts of the sentence in correct order.

We have been
P. able to identify certain patterns in
Q. the microbiome and immune response
R. that are clearly linked to the progression and
S. severity of brain injury

Ans
X 1. PQSR
X 2. QPSR
X 3.RSPQ
4. PQRS
Q. 2 Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

Has Gita any previous knowledge of work with junior colleagues?
Ans
X 1. with
$\times 2$. Has
X 3. any
4. work
Q. 3 Select the INCORRECTLY spelt word.

Ans
X 1. Cemetery
X 2. Accommodate
X 3. Intruder
4. Neccessary
Q. 4 Select the most appropriate option to fill in the blank.

The monster trucks have very $\qquad$ engines, they can probably pull a train coach without any problem.
Ans
X 1. dominant
2. forceful
3. impressive
4. powerful

## Q. 5 Select the sentences that contains no spelling errors.

Ans $\times 1$. Our government has launched a relatively extensive set of reforms for aborgines in the country.
2. Our government has launched a relatively extensive set of reforms for aborigines in the country.
3. Our government has launched a relatively extensive set of reforms for aboregynes in the country.
4. Our government has launched a relatively extensive set of reforms for aborigynes in the country.
Q. 6 Select the most appropriate option to fill in the blank.

The contingent managed to $\qquad$ successfully.
Ans
$X$ 1. park the deal
2. close the deal

X 3. heal the deal
4. catch the deal
Q. 7 Select the most appropriate synonym of the bracketed word to fill in the blank.

For Rahul, everything was a $\qquad$ (modern) experience until he stepped onto the field.

Ans

1. new
2. flashy
3. global
4. Asiatic
Q. 8 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Rehan and Ronit are / good friends and / it don't matter to them / as to who is wealthier.

Ans
X 1. good friends and
2. it don't matter to them

X 3. Rehan and Ronit are
4. as to who is wealthier.
Q. 9 Select the most appropriate synonym of the given word.

Moral
Ans

1. Ethical
2. Honourable
3. Godliness
4. Symphony
Q. 10 Choose the correct meaning of the given idiom.

A skeleton in the cupboard
Ans
X 1. A popular fact which is not hidden
2. A popular fact to be kept secret
3. An embarrassing fact not to be kept secret
4. An embarrassing fact to be kept secret
Q. 11 Rearrange the parts of the sentence in correct order.

The rattlesnake
P. it has specialized Jacobson's
Q. organs, which gives it a heightened
R. knows when to lie low because
S. sense of smell to detect prey

Ans

1. RPQS
2. SPRQ
3. QSPR
4. QPRS
Q. 12 Choose the most appropriate meaning of the underlined word in the given sentence.

Even though Margaret had already eaten a large meal, she could not resist eating two slices of the delectable pie.
Ans
$X$ 1. Stale
2. Delicious

X 3. Nutritious
X 4. Rotten
Q. 13 Select the correct indirect form of the given sentence.

She said to me, "The charlatan will be breaking into the safe."
Ans

1. She told me that the charlatan would be breaking into the safe.
2. She said to me that the charlatan will be breaking in the safe.

X 3. She said to me that the charlatan can be breaking into the safe.
4. She said to me that the charlatan is breaking into the safe
Q. 14 Select the most appropriate meaning of the given idiom.

Fly into a passion
Ans

1. To be aggressive at times
2. To become aggressive often
3. To become angry suddenly
4. To be always angry
Q. 15 Select the correct passive form of the given sentence. Shalu has ordered new copies of the album.
Ans
$X 1$. New copies of the album have being ordered by Shalu.
X 2. New copies of the album has been ordered by Shalu.
X 3. New copies of the album has been order by Shalu.
5. New copies of the album have been ordered by Shalu.
Q. 16 Select the most appropriate ANTONYM of the underlined word in the given sentence.

God has clearly blessed human beings for his glory.
Ans
X 1. Appointed
X 2. Produced
X 3. Applied
4. Cursed
Q. 17 Select the option that can be used as a one-word substitute for the given group of words.

A person in love with himself
Ans

1. Narcissist
2. Lunatic
3. Stoic
4. Polyglot
Q. 18 Select the correct passive form of the given sentence.

He has downloaded the movie on his phone.
Ans

1. The movie has been downloaded by him on his phone.
2. The movie was downloaded by him on his phone.
3. The movie is been downloaded by him on his phone.
4. The movie are being downloaded by him on his phone.
Q. 19 Select the option that can be used as a one-word substitute for the given group of words.

Giving the worrying impression that something bad is going to happen
Ans
X 1. Desolate
2. Suspicious
3. Ominous
4. Bleak
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The new shop that opened last week are hardly sufficient stock of the products that it advertised about.

Ans
$X 1$. hardly hadn't
2. hardly had
3. hardly is having
4. is had

## 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.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

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

Ans

1. taste
2. spoonful
3. drop
4. mouthful

## 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.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

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

Ans
X 1. campaigners
2. reformers
3. champions
4. supporters

## 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.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

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

Ans
X 1. adapt
X 2. reshape
X 3. transfigure

- 4. convert


## 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.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

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

Ans

1. stadium
2. circuit
3. route
4. track

## 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.
The Romans had developed a (1) $\qquad$ for chariot racing. The (2) $\qquad$ of the game are so excited that sometimes it may (3) $\qquad$ into chaos, confusion and riots. The (4) $\qquad$ in which racing took place was called a circus. The (5) $\qquad$ one was the Circus Maximus in Rome, that could hold up to $3,85,000$ spectators, which shows the popularity of the sport

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

Ans
X 1. larger
2. highest
3. largest
4. higher

