Combined Graduate Level Examination 2021 Tier - I

| Roll Number |  |
| :--- | :--- |
| Candidate Name | Exampapers247.com |
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| Exam Date | 11/04/2022 |
| Exam Time | $9: 00$ AM $-10: 00$ AM |
| Subject | CGLE 2021 Tier I |

Section : General Intelligence and Reasoning
Q. 1 In a certain language, CHHAPAK is coded as DJKEUGR. How will MALANGA be coded in that language?
Ans
$\times$ 1. NCEOSMC
X 2. ncocsmc
3. NCOESMH
4. ncocmsc

Question ID : 65497844600
Status: Answered
Chosen Option: $\mathbf{3}$
Q. 2 Amit, Gaurav, Hatim, Varun, Yukti and Zaid are sitting in a straight line, all facing the north. Gaurav is fourth to the left of Amit. Yukti is sitting at one corner. Hatim is fourth to the left of Yukti. Zaid is third to the right of Gaurav. Who is sitting at the second place to the left of Zaid?
Ans
$X 1$. Varun
2. Yukti
3. Hatim
4. Amit
$\square$

Question ID : 65497843079
Status: Answered
Chosen Option: $\mathbf{3}$
Q. 3 Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.

60 * 48 * 36 * 6 * 15 * 53
Ans
X $1 .+, \div,-, \times,=$

- 2.,$+ \div, \times,-,=$

X $3 . \div+, x,-,=$
X4. $\times, \div+,-,=$
Q. 4 Select the number from among the given options that can replace the question mark (?) in the following series.

237, 196, 155, 114, ?
Ans
X 1. 47

- 2. 98

3. 73

X4.64
Q. 5 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$\mathbf{Z}_{-} \mathbf{C} \mathbf{L} \mathbf{Z} \mathbf{Z}_{-} \mathbf{C}_{-} \mathbf{L}_{-} \mathbf{X} \mathbf{V} \mathbf{V} \mathbf{L}_{--} \mathbf{V}$
Ans

1. L, X, V, X, V, Z, C, Z, X, C

X 2. X, Z, L, X, V, Z, C, C, C, L
X 3. L, X, C, X, V, C, Z, C, Z, C
X 4. L, X, V, V, X, C, C, X, Z, Z
Q. 6 If '@' means 'addition', '\%' means 'multiplication', '\$' means 'division' and '\#' means 'subtraction', then find the value of the following expression.

29 @ 128 \$ 16 \% 7 \# 22
Ans
$\times 1.58$
$\times 2.47$

- 3.63
$\times 4.23$
Q. 7 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

Q. 8 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?


Ans

Q. 9 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 flowers are beautiful.
Vaidehi is beautiful.
Conclusions:
I. Vaidehi is a flower
II. Some beautiful are flowers.

Ans 1. Only conclusion II
follows.
X 2. Either conclusion I or II follows.
X 3. Only conclusion I follows.
X 4. Both the conclusions follow.

Q． 10 Select the correct water image of the given combination of letters．
DFNZSR
Ans
× ロ」Иエで
2．DEZN
3．DヒИエンy
4．DヒИエで

Q． 11 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary

1．Petitionary
2．Petitioning
3．Petition
4．Petitioners
5．Petitioned
Ans
X 1．1，2，3，4， 5
X 2．4，1，2，3， 5
＊ $3.3,1,5,4,2$
X4．3，1，4，5，2

Q． 12 Select the option that is related to the third term in the same way as the second term is related to the first term．

BACTERIA ：EXFWBUFX ：：WOUNDS ：？
Ans
1．ZLRQGV
X 2．YLRQFV
X 3．ZLSQFW
X4．ZRXQGV
Q. 13 Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.

486356
4218845152151 ? 8
14917
Ans

1. 21
$\times 2.18$
$\times 3.19$
$\times 4.17$
Q. 14 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

TSF, RPJ, PMN, NJR, ?
Ans
X 1.JFV
$X$ 2. KGU
$X$ 3.LGN

- 4. LGV
Q. 15 In a certain code language, 'CROWD' is coded as 23415924 and 'TRHICK' is coded as 162491997. How will 'FRUGAL' be coded in that language?

Ans
X 1.1226761821
X 2. 1521012291

- 3. 1512021921

X4. 1221021186
Q. 16 Saloni is the daughter of the only son of Kartik. Nirupama is the mother of Deepak. Yamini's only son, Ankit, is married to Nirupama. Kartik is the paternal grandfather of Deepak. How is Kartik related to Ankit?
Ans
X 1. Brother
X 2. Paternal uncle
$X 3$. Son
4. Father
Q. 17 Six letters and symbols, $\mathrm{H}, \mathrm{h}, \mathrm{I}, @, \%$ and S , are written on the different faces of a dice. Two positions of this dice are shown. Select the letter or symbol that will be on the face opposite to the one having ' H '.


Ans

1. $\$$
2. $\%$
3. h
4.@
Q. 18 Select the option that is related to the third number in the same way as the second number is related to the first number.

223: 350 :: 519 : ?
Ans

- 1.736
$\times 2.645$
X 3.687
$\times 4.654$
Q. 19 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.
Ans
$X$ 1. SPK
$X$ 2. JGT
X 3. PMN

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


Ans

Q. 21 In a certain code language, 6219 means 'Sachin is a cricketer' and 2646 means 'He played from Mumbai'. Which of the following is the code for 'Mumbai is very famous'?
Ans
X1. 7945
2. 2646
$\times 3.6285$
$\times 4.2458$
Q. 22 Select the set of classes the relationship among which is best illustrated by the following Venn diagram.


Ans 1. Fathers, Brothers, Males
2. Grandfathers, Fathers, Males
3. Literates, Engineers, Farmers
4. Mothers, Aunts, Doctors
Q. 23 Gaurav exits from the backdoor of his north-facing house and walks 25 m straight, then he takes a left turn and walks 36 m , then he turns left and walks 47 m . He turns left again and walks 36 m . How far and in which direction is he from his house now?
Ans

1. 22 m , North
2. 11 m , North
3. 22 m , South
4. 11 m , South
Q. 24 Mohit and Sudesh bought pens and notebooks from the same shop. Mohit bought 3 pens and 6 notebooks by paying an amount of ₹180. Sudesh bought 5 pens and 2 notebooks by paying an amount of ₹116. How much did Mohit spend on buying notebooks?
Ans $\quad \times 1$. ₹ 84
5. ₹ 138
6. ₹122
7. ₹115
Q. 25 Select the number from among the given options that can replace the question mark (?) in the following series.

5, 18, 70, 278, ?
Ans
$\times 1.328$
X 2. 298
3.1110
$\times 4.592$
Q. 1 The numerical taxonomy of plants is based on which of the following?

Ans

1. All observable characteristics
$X$ 2. Chemical constituents
X 3. Structure
X 4. Chromosome number
Q. 2 On which day was the National Emblem of India adopted?

Ans $\quad \times 1$ 15th August 1952
2. 26th January 1950

X 3. 15th August 1947
4. 26th January 1959
Q. 3 Who among the following became the Chief Minister of Uttarakhand in March 2021?

Ans $\quad \times$ 1. Madan Kaushik
v 2. Tirath Singh Rawat
X 3. BC Khanduri
X 4. Dhan Singh Rawat
Q. 4 The allocation towards health and well-being was increased by $\qquad$ over the previous year in Union Budget 2021-22.
Ans
X 1.125\%
X 2. $100 \%$
X
3. $140 \%$
4. $137 \%$

## Q. 5 Who among the following is the author of the book 'The Secret of the Veda'?

Ans 1. Sri Aurobindo
2. Annie Besant
3. Swami Vivekananda
4. J Krishnamurti
Q. 6 Pneumatophores are specialised $\qquad$ in hydrophytes.
Ans
$X 1$. seeds
2. roots
3.fruits
4. flowers
Q. 7 Which of the following days is celebrated as 'World Water Day'?

Ans1. 22 March
2. 29 March
3. 18 February
4.5 April
Q. 8 Who among the following Rajput rulers defeated Muhammad Ghori in the First Battle of Tarain in 1191 AD?
Ans $\quad X$ 1. Rana Kumbha
X 2. Maldeo Rathore
3. Prithviraj Chauhan

X 4. Bappa Rawal
Q. 9 In which year was the 'Lotteries Regulation Act' passed?

Ans

1. 1998

X 2.1993
X 3.1999
4. 1991
Q. 10 A Ghatam is a

Ans 1. large, narrow-mouthed earthenware pot used as a percussion instrument
2. small handheld drum that resembles a tambourine
3. wind instrument made of wood and metal
4. percussion instrument made of leather and jackwood
Q. 11 Which of the following is an Indirect Tax in India?

Ans 1. Goods and Services Tax
X 2. Income Tax
X 3. Corporation Tax
X 4. Capital Gains Tax
Q. 12 Tribes of the Nicobar Islands pay their respects to the departed soul of the head of the family during the $\qquad$ —.
Ans

1. Ossuary Feast
2. Jagaddhatri Puja
3. Ganjan Festival
4. Kalpataru Utsav
Q. 13 Which of the following statements is/are correct?
I. Only marketed goods are considered while estimating Gross Domestic Product (GDP).
II. The work done by a woman at her home is outside the purview of Gross Domestic Product.
III. In estimating GDP, only final goods and services are considered.

Ans $\quad$ 1. Only II and III

- 2. I, II and III

3. Only I and III
4. Only II
Q. $14 \ldots \quad$ was an important port city in ancient India.

Ans 1.Tamralipti
X 2. Shravasti
X 3. Ahichhatra
X 4. Champa
Q. 15 $\qquad$ is reducing the degree or intensity of, or eliminating, pollution.
Ans 1. Abatement
X 2. Aerosol
X 3. Absorption
X 4. Aeration
Q. 16 Which of the following teams won the Indian Super League 2020-21?

Ans $\quad \times 1$. Kerala Blasters FC
X 2. NorthEast United FC
$X$ 3. ATK Mohun Bagan
4. Mumbai City FC
Q. 17 The former Spanish footballer, Antonio Lopez Habas, was the coach at the Hero ISL 2020-21 of which of the following football teams?
Ans

1. ATK Mohun Bagan

X 2. Kerala Blasters
3. FC Goa
4. SC East Bengal
Q. 18 Which of the following is also known as the 'White Mountain'?

Ans $\quad X$ 1. Cho Oyu
2. Makalu3. Dhaulagiri I
4. Lhotse
Q. 19 With which of the following oceans would you associate the 'Ring of Fire'?

Ans $\times 1$. Arctic
2. Atlantic
3. Indian
4. Pacific
Q. 20 Which of the following Amendments of the Constitution of India added a new fundamental duty under Article 51-A?
Ans $\quad$ 1. Eighty-Fifth Amendment Act, 2001
2. Eighty-Sixth Amendment Act, 2002
3. Eighty-Eighth Amendment Act, 2003
4. Eighty-Seventh Amendment Act, 2003

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\text { Question ID : } 65497843519
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Status : | Not Attempted and |
| :--- |
| Marked For Review |

Chosen Option: --
Q. 21 The theme for International Mother Earth Day, 2021 was ‘ $\qquad$ '.

Ans

- 1 1. Restore our Earth

X 2. Protect our Species
3. Climate Action
4. End Plastic Pollution
Q. 22 In which of the following states/union territories was an election NOT held during March-April 2021?
Ans $\times 1$. Puducherry
X 2. West Bengal

- 3. Bihar

X 4. Tamil Nadu

## Q. 23 The British East India Company captured Pondicherry (Puducherry) from the French in

 the year $\qquad$ _.Ans

- 1. 1761

X2. 1699
$\times 3.1674$
$\times 4.1738$
Q. 24 According to Ramsar Convention, which of the following is World Wetlands Day?

Ans $\times 1.18$ th March
X 2. 15th January3. 2nd February
4. 19th December
Q. 25 At least $\qquad$ of the carbon dioxide fixation on earth is carried out by algae through photosynthesis.
Ans $\times$ 1. a quarter
2. a half
3. one-tenth
4. one-third

## Section : Quantitative Aptitude

Q. 1 A sold a mobile phone to B at a gain of $25 \%$ and B sold it to C at a loss of $10 \%$. If C paid $₹ 5,625$ for it, how much did A pay (in ₹) for the phone?
Ans

1. 5,000
2. 4,800
3. 4,500
4. 5,100
Q. 2

The value of $\frac{\sin 23^{\circ} \cos 67^{\circ}+\sec 52^{\circ} \sin 38^{\circ}+\cos 23^{\circ} \sin 67^{\circ}+\operatorname{cosec} 52^{\circ} \cos 38^{\circ}}{\operatorname{cosec}^{2} 20^{\circ}-\tan ^{2} 70^{\circ}}$
Ans 1. 3
2. 4
3. 2
4. 0
Q. 3 A motorboat whose speed is $20 \mathrm{~km} / \mathrm{h}$ in still water takes 30 minutes more to go 24 km upstream than to cover the same distance downstream. If the speed of the boat in still water is increased by $2 \mathrm{~km} / \mathrm{h}$, then how much time will it take to go 39 km downstream and 30 km upstream?
Ans 1. 2 h 40 m
2. 3 h 10 m
3. 3 h 40 m
4. 2 h 50 m
Q. 4 AB is a diameter of a circle with centre O . A tangent is drawn at point A . C is a point on the circle such that BC produced meets the tangent at $P$. If $\angle A P C=62^{\circ}$, then find the measure of the minor arc $A C$.
Ans

1. $56^{\circ}$
2. $62^{\circ}$
3. $28^{\circ}$
4. $31^{\circ}$
Q. 5 A can finish a piece of the work in 16 days and B can finish it in 12 days. They worked together for 4 days and then A left. B finished the remaining work. For how many total number of days did B work to finish the work completely?
Ans
5. 6
6. 9
7. 4
8. 8
Q. 6 A solid cube of side 8 cm is dropped into a rectangular container of length 16 cm , breadth 8 cm and height 15 cm which is partly filled with water. If the cube is completely submerged, then the rise of water level $(\mathrm{in} \mathrm{cm})$ is:

Ans

1. 2
2. 6
3. 5
4. 4
Q. 7 If $(x+6 y)=8$, and $x y=2$, where $\mathrm{x}>0$, what is the value of $\left(x^{3}+216 y^{3}\right)$ ?

Ans

1. 288
2. 224
3. 368
4. 476
Q. 8 The following bar graph shows exports of cars of type $A$ and $B$ (in ₹ millions) from 2014 to 2018 .


What is the ratio of the total exports of cars of type A in 2014 and 2017 to the total exports of cars of type B in 2015 and
2016?
Ans

1. $10: 9$
2. $5: 6$
3. $11: 10$
4. $3: 2$
Q. 9 In a $\triangle A B C$, points $P, Q$ and $R$ are taken on $A B, B C$ and $C A$, respectively, such that $B Q=P Q$ and $Q C=Q R$. If $\angle B A C=$ $75^{\circ}$, what is the measure of $\angle \mathrm{PQR}$ (in degrees)?

Ans

1. 40
2. 30
3. 50
4. 75
Q. 10 If $4 \sin ^{2} \theta=3(1+\cos \theta), 0^{\circ}<\theta<90^{\circ}$, then what is the value of $(2 \tan \theta+4 \sin \theta-\sec \theta)$ ?

Ans

1. $3 \sqrt{15}-4$
2. $15 \sqrt{3}-4$
3. $15 \sqrt{3}+3$
4. $4 \sqrt{15}-3$
Q. 11 The lengths of the three sides of a right-angled triangle are $(x-1) \mathrm{cm},(x+1) \mathrm{cm}$ and $(x+3) \mathrm{cm}$, respectively. The hypotenuse of the right-angled triangle (in cm ) is:

Ans

1. 6
2. 10
3. 12
4. 7
Q. 12 A certain sum is deposited for 4 years at a rate of $10 \%$ per annum on compound interest compounded annually. The difference between the interest at the end of 2 years and that at the end of 4 years is ₹ 5,082 . Find the sum (in ₹).

Ans

1. 20,000
2. 25,500
3. 50,820
4. 10,164
Q. 13 An item costs $₹ 400$. During a festival sale, a company offers a sale discount that offers $\mathrm{x} \%$ off on its regular price along with a discount coupon of $10 \%$. The price of the item after using both the sale discount and the discount coupon, is $₹ 216$. What is the value of $x$ ?

Ans 1. 25
2. 40
3. 30
4. 35
Q. 14 The number of cars passing the road near a colony from 6 am to 12 noon has been shown in the following histogram.

What is the ratio of the number of cars passed between 6 am and 8 am to the number of cars passed between 9 am and 11 am ?


Ans

1. $5: 6$
2. $7: 4$
3. $21: 19$
4. $14: 23$
Q. 15 Monthly expenditure of a family on different heads is shown in the following pie chart.

The amount spent on Children Education, Transport and Rent is what percentage of the total earnings?
Expenditure on different Heads


Ans

1. $45 \%$
2. $55 \%$
3. $40 \%$
4. $50 \%$
Q. 16 Find the greatest number 23 a 68 b , which is divisible by 3 but NOT divisible by 9 .

Ans

1. 238689
2. 239685
3. 239688
4. 237687
Q. 17 An equilateral triangle $A B C$ is inscribed in a circle with centre $O$. $D$ is a point on the minor arc $B C$ and $\angle C B D=40^{\circ}$. Find the measure of $\angle B C D$.
Ans $\quad \times 1.30^{\circ}$
5. $50^{\circ}$
6. $20^{\circ}$
$\times 4.40^{\circ}$
Q. 18 The ratio of the monthly incomes of $A$ and $B$ is $11: 13$ and the ratio of their expenditures is $9: 11$. If both of them manage to save $₹ 4,000$ per month, then find the difference in their incomes (in ₹).
Ans
7. 2,500
8. 3,200
9. 4,000
10. 3,000
Q. 19 The average weight of P and his three friends is 55 kg . If P is 4 kg more than the average weight of his three friends, what is P's weight (in kg)?

Ans

1. 54
2. 58
3. 62
4. 60
Q. 20 If $x+y+3=0$, then find the value of $x^{3}+y^{3}-9 x y+9$.

Ans
-1. -18
$\times 2 .-36$
X 3.18
$\times 4.36$
Q. 21 The given histogram represents the marks of students in Mathematics test of a certain class.

The total number of students is 350 .
Study the graph and answer the question that follows.


What is the ratio of the total number of students who scored 140 marks and above to the total number of students who scored marks between 60 to 120 ?

Ans

1. $110: 137$
2. $9: 11$
3. $11: 9$
4. $137: 110$
Q. 22 The angle of elevation of the top of an unfinished tower at a point distant 78 m from its base is $30^{\circ}$. How much higher must the tower be raised (in m ) so that the angle of elevation of the top of the finished tower at the same point will be $60^{\circ}$ ?

Ans

1. $78 \sqrt{3}$
2. 80
3. $52 \sqrt{3}$
4. $26 \sqrt{3}$
Q. 23 Find the value of the following expression:
$372 \div 56 \times 7-5+2$
Ans
5. 58
×2. $-2 \frac{95}{98}$
6. $43 \frac{1}{2}$
$\times 4.2 \frac{93}{98}$
Q. 24 LCM of two numbers is 56 times their HCF, with the sum of their HCF and LCM being 1710. If one of the two numbers is 240 , then what is the other number?
Ans
7. 57
8. 171
9. 1680
10. 210
Q. 25 Some students (only boys and girls) from different schools appeared for an Olympiad exam. 20\% of the boys and $15 \%$ of the girls failed the exam. The number of boys who passed the exam was 70 more than that of the girls who passed the exam'. A total of 90 students failed. Find the number of students that appeared for the exam.

Ans

1. 420
2. 400
3. 500
4. 350
Q. 1 Select the option that expresses the given sentence in passive voice.

She handles all tasks efficiently.
Ans $\quad \times 1$. All tasks are being handled efficiently by her.
X 2. All tasks were handled efficiently by her
$X$ 3. All tasks have been handled efficiently by her.
4. All tasks are handled efficiently by her.
Q. 2 Select the option that expresses the given sentence in active voice.

All weapons were surrendered by them.
Ans
$X$ 1. They have surrendered all weapons.
2. They surrendered all weapons.
$X$ 3. They had surrendered all weapons.
$X 4$. They are surrendering all weapons.
Q. 3 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The authorities are assured the people that they will look into the matter.
Ans
$X 1$. has assured
2. have assured
$X$ 3. have been assured
4. No substitution required
Q. 4 Select the most appropriate ANTONYM of the given word.

## Modest

Ans $\quad \times$ 1. Glum
$X$ 2. Sullen
X 3. Unhappy
4. Conceited
Q. 5 Select the option that can be used as a one-word substitute for the given group of words.

The study of earthquakes
Ans
X 1. Geology
2. Geography

X 3. Topography
4. Seismology
Q. 6 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required.'

A tigress has given birth to a cub in the Ranthambore Tiger Reserve, taking the big cat population to 78 .
Ans
$X 1$. is given births
2. was birthed

X 3. has give birth
4. no substitution required
Q. 7 Select the most appropriate meaning of the given idiom.

Be hard up
Ans
$X$ 1. Unable to calculate
2. Have very little money
$X$ 3. Have difficulty in climbing stairs
4. Find it very difficult to wake up early
Q. 8 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Every / curious child / want to / rip open a toy.
Ans
$X$ 1. curious child
2. rip open a toy

X 3. Every
4. want to

## Q. 9 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.It was / the very well-directed film / and we enjoyed it.
Ans 1. the very well-directed film
X 2. No error
3. and we enjoyed it
4. It was
Q. 10 Select the INCORRECTLY spelt word.

Ans

1. Tution
2. Circuit
3. Genuine
4. Manners
Q. 11 Select the option that expresses the given sentence in direct speech.

He asked me when I had booked the flight tickets.
Ans
X 1. He said to me, "When do you book the flight tickets?"
2. He said to me, "When did you book the flight tickets?"

X 3. He said to me, "When are you booking the flight tickets?"
4. He said to me, "When you had book the flight tickets?"
Q. 12 The following sentence has been divided into parts. One of them may contain a grammatical 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.

If the economy fails / this year it reflect badly / on the government.
Ans

1. this year it reflect badly
2. No error
3. on the government
4. If the economy fails

## Q. 13 Select the most appropriate option to fill in the blank.

The increasing concerns about climate change point to the need for enhanced efforts towards $\qquad$ sustained growth.
Ans

1. achieving
$X$ 2. to achieve
$\times$ 3. achieved
X 4. achieve
Q. 14 Select the option that can be used as a one-word substitute for the given group of words.

To walk aimlessly
Ans

1. Amble
2. Crawl

X 3print
4. Slither
Q. 15 Select the most appropriate synonym of the given word.
ostentatious
Ans

1. showy
$X$ 2. tasteful
$X$ 3. sudden
X 4. quick
Q. 16 Select the most appropriate meaning of the given idiom.

In the same breath
Ans $\quad \times 1$. Try and hold your breath
2. Say two contradictory things at the same time
$X$ 3. Able to get a foul smell
$X$ 4. Practice breathing exercises
Q. 17 Select the most appropriate ANTONYM of the given word.

Raze
Ans

1. Build
2. Ease
3. Comfort
4. Ruin
Q. 18 Select the most appropriate synonym of the given word.

## Retaliate

Ans
X 1. Clap
2. react
$X$ 3. Facilitate
X 4. Rotate
Q. 19 Select the most appropriate synonym of the given word.

## Avert

Ans

1. Permit
2. Confront
3. Face
4. Prevent
Q. 20 The following sentence has been split into segments. One of them may contain an error. Identify the segment that contains a grammatical error. If you don't find any error, mark 'No error' as your answer.

No one were / present when I/ entered the hall.
Ans

1. No one were
2. present when I
3. No error
4. entered the hall

## 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 rise in the Irrawaddy dolphin (1) $\qquad$ in Chilika can be attributed to the eviction of (2) fish enclosures. After thousands of hectares of Chilika lake were made (3)
free, Irrawaddy dolphins found unobstructed area for movement. (4)___, due to the COVID-19 lockdown last year, there were comparatively fewer tourist boats on Chilika lake, which made it (5) $\qquad$ for dolphins to move from one part of the lake to another

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

Ans

1. population
2. clan
3. natives
4. inhabitants

## 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 rise in the Irrawaddy dolphin (1) $\qquad$ in Chilika can be attributed to the eviction of (2) fish enclosures. After thousands of hectares of Chilika lake were made (3)
free, Irrawaddy dolphins found unobstructed area for movement. (4) $\qquad$ due to the COVID-19 lockdown last year, there were comparatively fewer tourist boats on Chilika lake, which made it (5) $\qquad$ for dolphins to move from one part of the lake to another.

SubQuestion No: 22

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

Ans $\quad \times 1$. unwarranted
2. illegal

X 3. illegitimate
X 4. unconstitutional

## 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 rise in the Irrawaddy dolphin (1) $\qquad$ in Chilika can be attributed to the eviction of (2) fish enclosures. After thousands of hectares of Chilika lake were made (3)
free, Irrawaddy dolphins found unobstructed area for movement. (4)___, due to the COVID-19 lockdown last year, there were comparatively fewer tourist boats on Chilika lake, which made it (5) $\qquad$ for dolphins to move from one part of the lake to another

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

Ans $\times 1$. trespass
2. confiscation

- 3. intervention

4. encroachment

## 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 rise in the Irrawaddy dolphin (1) $\qquad$ in Chilika can be attributed to the eviction of (2)
fish enclosures. After thousands of hectares of Chilika lake were made (3)
free, Irrawaddy dolphins found unobstructed area for movement. (4) $\qquad$ due to the COVID-19 lockdown last year, there were comparatively fewer tourist boats on Chilika lake, which made it (5) $\qquad$ for dolphins to move from one part of the lake to another.

SubQuestion No: 24

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

Ans $\times 1$. Whereas
2. Moreover

X 3. Nevertheless
X 4. However

## 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 rise in the Irrawaddy dolphin (1) $\qquad$ in Chilika can be attributed to the eviction of (2) fish enclosures. After thousands of hectares of Chilika lake were made (3)
free, Irrawaddy dolphins found unobstructed area for movement. (4) $\qquad$ due to the COVID-19 lockdown last year, there were comparatively fewer tourist boats on Chilika lake, which made it (5) $\qquad$ for dolphins to move from one part of the lake to another.

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

Ans

- 1. conducive
$X$ 2. hurfful
$X$ 3. detrimental
X 4. disturbing


## Combined Graduate Level Examination 2021 Tier - I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 11/04/2022 |
| Exam Time | 12:30 PM - 1:30 PM |
| Subject | CGLE 2021 Tier I |

## Section : General Intelligence and Reasoning

Q. 1 Four different positions of the same dice are shown, the six faces of which are numbered from 1 to 6 . Select the number that will be on the face opposite to the one having the number ' 1 '.


Ans

1. 6
2. 2
3. 4
4. 3
Q. 2 Pamila is the granddaughter of Akun who is married to Nikita. Murali is the brother-inlaw of Akun who has two daughters but no son. Rahul is the cousin of Kamal and brother of Pamila. Uday and Vanmay are the sons-in-law of Nikita. Vanmay is married to Yamini and they have two daughters and one son. Uday has one son and one daughter. Tina and Smita are the daughters of Yamini. Murali is unmarried. How is Yamini related to Rahul?

Ans

1. Aunt
2. Mother
3. Sister
4. Daughter
Q. 3 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
$\times 1$


- 2. 


$\times 3$.

$\times 4$

Q. 4 Study the given matrix carefully and select the number from among the given options that can replace the question mark (?) in it.

713174
925104
1130 ?
Ans

- 1.431
$\times 2.335$
$\times 3.100$
$\times 4.129$


Q. 7 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:
No pink is yellow.
No yellow is white.
All reds are yellows.
Conclusions:
I. No red is pink.
II. No red is white.
III. No white is yellow.

Ans $\times 1$. Only conclusions I and II follow
$X$ 2. Only conclusions I and III follow
X 3. Only conclusions II and III follow
4. All the conclusions follow
Q. 8 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

KYBA, FTEE, AOHI, VJKO, ?, LZQA
Ans $\quad X$ 1. PFNU
2. QENU

X 3. QEMI
X 4. QDNI
Q. 9 In a certain code language, 'RAKHI' is coded as 36-2-22-16-18 and 'SHALU' is coded as 38-16-2-24-42. How will 'MANJU' be coded in that language?
Ans $\quad \times 1.13-2-28-10-24$
X 2. 13-2-14-10-24
X 3. 26-1-14-20-42
4. 26-2-28-20-42
Q. 10 Select the option that is related to the third number in the same way as the second number is related to the first number.

23:441 :: 28 : ?
Ans
$\times 1.692$
2. 494

X 3.528

- 4.676
Q. 11 Select the correct mirror image of the given combination when the mirror is placed at ' PQ ' as shown.
$\%$ OVeRtHRoW\& $\left.\right|_{\mathbf{Q}} ^{\mathbf{P}}$
Ans



3. \& W о Я Н † Я っ V O o o
4. \& W o Я H f Я eV O o
Q. 12 In the following Venn diagram, the hexagon stands for 'police officers', the pentagon stands for 'graduates', the circle stands for 'females', and the square stands for 'Indians'. The given numbers represent the number of persons in that particular category.


How many Indian police officers are graduates but NOT females?
Ans

1. 11
$\times 2.8$
$\times 3.13$
X4. 19
Q. 13 In a certain code language, MONEY is written as PRQHB.In the same code language, CREDIT will be written as:
Ans
X 1. FUGHLW
2. FUHGLW

X 3. FUHGWL
X4. FHGULW
Q. 14 In a certain code language, 'her father is okay' is coded as 6583 , 'my father is well' is coded as 5137 and 'her arm is injured' is coded as 2839. How will 'okay' be coded in that language?
Ans
-1.6
$\times 2.8$
$\times 3.3$
$\times 4.5$
Q. 15 The sequence of folding a piece of paper (figure i) and the manner in which the folded paper has been cut (figure ii) is shown in the following figures. Select the option that would most closely resemble the unfolded form of figure (ii).

(i)

(ii)

Ans

$\times 1$



- 2. 





$\times 3$



Q. 16 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Starfish
2. Blue whale
3. Shark
4. Giant tortoise
5. Penguin

Ans
X 1.1, 5, 4, 2, 3
2. 1, 5, 3, 2, 4
3. 1, 5, 4, 3, 2
4.4, 5, 1, 3, 2
Q. 17 Five persons are sitting in a row facing the north. One of the two persons at the extreme ends is an introvert and the other one is an extrovert. A thin person is sitting to the immediate right of an intelligent person. A weak person is sitting to the immediate left of the extrovert person. The intelligent person is sitting exactly between the introvert and the thin persons. Which of the following persons is sitting at the centre?
Ans $\quad \times 1$. Extrovert
2. Intelligent

X 3. Weak
4. Thin
Q. 18 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

1. ZCGLS
2. NQUZF
3. LOSXD
4. FIMRX
Q. 19 Select the number from among the given options that can replace the question mark
(?) in the following series.
10, 14, 31, 35, 73, 77, ?
Ans
X 1.154
X2.90
5. 157

X 4.81
Q. 20 Which two digits should be interchanged to make the given equation correct?

384 $\div 16-72+9 \times 10=2$
Ans $\quad \times 1.3$ and 7
ح. 7 and 9
$\times 3.4$ and 8
$\times 4.6$ and 9
Q. 21 Select the option that is related to the third term in the same way as the second term is related to the first term.

PATELS : BQFUTM :: NECTAR : ?
Ans
X 1.FODUSZ
2. FOUDSB

X 3.FOVDBS
$\times 4$. OEUDQB
Q. 22 Select the number from among the given options that can replace the question mark (?) in the following series.

16, 33, 100, 401, ?
Ans
X 1.1588
$\times 2.804$
X 3.1235

- 4.2006
Q. 23 Which two numbers and which two signs should be interchanged to balance the following equation?
$\mathbf{2 4} \div \mathbf{1 6} \mathbf{- 9 6}+\mathbf{4 8} \times 12=195$
Ans

1. 12 and $16, \times$ and $\div$

X 2. 24 and 16, - and $\div$
$\times 3.24$ and $48, \times$ and $\div$
X 4.12 and $48, \times$ and +
Q. 24 A side of a square-shaped park is 12 m . If a squared-shaped garden with a side of $\mathbf{2 4} \mathbf{~ m}$ is developed around the park, what will be total area of the park including the garden?
Ans
X $1.144 \mathrm{~m}^{2}$
2. $288 \mathrm{~m}^{2}$
3. $576 \mathrm{~m}^{2}$
$4.324 \mathrm{~m}^{2}$
Q. 25 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

$$
{ }_{-} \mathrm{LH}_{--} \mathrm{U}_{-} \mathrm{H}_{--} \mathrm{U}_{-} \mathrm{H}_{-} \mathrm{N} \mathrm{U}_{--} \mathrm{EN}
$$

Ans

1. U, E, N, L, E, N, L, E, L, H

X 2. E, U, N, L, N, E, L, E, H, L
X 3. U, E, L, E, N, N, L, H, N, E
X 4. U, E, N, L, E, L, H, L, E, H

## Section : General Awareness

Q. 1 Makaravilakku festival is celebrated at the sacred grove of Lord Ayyappa in:

Ans
$X$ 1. Telangana
X 2. Andhra Pradesh
X 3. Karnataka
4. Kerala
Q. 2 For which of the following teams is the former Indian football captain Sunil Chhetri played in 2021?
Ans
$X$ 1. Chennaiyin FC
2. Bengaluru FC
3. NorthEast United FC

X 4. FC Goa
Q. 3 Which of the following was a fishing colony that was used as a port for trading with the Romans and the Greco-Romans in ancient India?
Ans
$X$ 1. Lothal
X 2. Badami
3. Arikamedu
4. Tulapurushandana
Q. 4 The 'Pradhan Mantri Annadata Aay SanraksHan Abhiyan' (PM-AASHA) has components to rationalise the government agricultural produce price and policy for efficiency, savings by way of reduction of wastages and leakages in storage and make fiscal gains.
Ans
$X$ 1. five
2. three
$\times$ 3. two
X 4. eight
Q. 5 Musi river is a tributary of which of the following rivers?

Ans $\quad \times 1$. Yamuna
2. Ganges
3. Godavari
4. Krishna
Q. 6 Which of the following musical instruments did Dwaram Venkataswamy Naidu play?

Ans

1. Violin
2. Mandolin
3. Veena
4. Nadaswaram
Q. 7 The Election Commission of India (ECI) is the watchdog of free and fair elections in the country and $\qquad$ of the Constitution of India provides for its establishment.
Ans
X 1. Article 356
5. Article 324

X 3. Article 352
X 4. Article 101
Q. 8 NIP related to India's budget, which was announced in December 2019 by the Union Finance Minister of India stands for:
Ans
$X$ 1. National Indigenous Project
2. National Infrastructure Pipeline
$X$ 3. Neutral Interventions on Payments
X 4. Negotiable Instrument Protocol

## Q. 9 Rajeev Ram is a professional tennis player from

Ans

1. United States of America
2. Australia
3. Slovakia
4. United Kingdom
Q. 10 What is the name of the compound having the formula $\mathrm{CH}_{3} \mathrm{CH}_{2} \mathrm{OH}$ ?

Ans
$X 1$. Acetic Acid
2. Ethanol
3. Methane
4. Chloroform
Q. 11 Who is the author of the book, 'Poverty and Un-British Rule in India'?

Ans

1. Dadabhai Naoroji
2. Shashi Tharoor
3. Jairam Ramesh
4. Annie Besant
Q. 12 Which of the following is the theme of International Day for Monuments and Sites, 2021?

Ans
$X$ 1. Rural Landscapes
$X$ 2. Shared Culture, Shared Heritage and Shared Responsibility
$\Varangle$ 3. Heritage for Generations
4. Complex Pasts: Diverse Futures
Q. 13 The Atharvaveda is a collection of $\qquad$ khandas.
Ans

1. 20
$\times 2.15$
X. 10
$\times 4.5$
Q. 14 After Mahatma Gandhi's release from prison in January 1931, Congress leaders met at to plan the future course of action.
Ans $\quad \times$ 1. Calcutta
X 2. Lahore
, 3. Allahabad
$X$ 4. Surat

## Q. 15 What is the nut of an oak tree called?

Ans
$X$ 1. Kola nut
2. Acorn
$X$ 3. Macadamia
$X$ 4. Chestnut
Q. 16 Which of the following compounds in petroleum can cause corrosion to parts of internal combustion engines and refineries?
Ans
$X$ 1. Potassium
2. Sulphur

X 3. Sodium
4. Calcium
Q. 17 What is the percentage of rural child population to the total child population of the country in India as per Provisional Population Totals of Census 2011?
Ans

- 1.74 .05 \%

X 2. 79.03\%
X 3.62.45\%
4.55.23\%
Q. 18 Which of the following is the main cause of 'bad lands'?

Ans $\quad \times 1$. Scanty rainfall
2. Soil erosion
$X$ 3. Excessive forest cover
$\times$ 4. Open defecation
Q. 19 Which of the following statements is correct with respect to chordates?

Ans

1. Notochord is present
2. Heart is dorsal or laterally placed or absent
3. A post anal tail is absent
4. Double ventral solid nerve cord
$\qquad$ treatment.
Ans
5. sewage
6. microbe
7. bacteria
8. pollutant
Q. 21 In February 2021, the Finance Minister of India announced the setting up of a Dispute Resolution Committee (DRC) for taxpayers with taxable income up to $\qquad$ and disputed income up to $\qquad$ -.

Ans $\quad$ 1. ₹5 lakh, ₹ 1 lakh
2. ₹50 lakh, ₹10 lakh

X 3. ₹20 lakh, ₹5 lakh
X 4. ₹10 lakh, ₹2 lakh
Q. 22 The chemical symbol of arsenic is:

Ans

1. As
$X$ 2. Ar
$\times 3$. Ac
X4.An
Q. 23 Justice
was appointed Chief Justice of the Supreme Court of India with effect from 24th April 2021.

Ans
X 1. Ramayyagari Subhash Reddy
2. Ajjikuttira Somaiah Bopanna

X 3. Kuttiyil Mathew Joseph
4. Nuthalapati Venkata Ramana
Q. 24 As per the Hindu Succession Act 1956, who amongst the following has the first right over the property of a Hindu woman who dies intestate?
Ans $\quad \times 1$. Her parents
2. The legal heirs of her father
$X$ 3. The legal heirs of her husband
4. Her husband
Q. 25 With reference to the Constituent Assembly, which of the following statements is correct?
Ans $\quad \times 1$. The Constituent Assembly ratified India's membership of the Commonwealth in May 1947.
2. The Constituent Assembly adopted the National Anthem in January 1950.

X 3. The Constituent Assembly adopted the National Song in January 1948.
X 4. The Constituent Assembly adopted the National Flag in July 1949.

## Section : Quantitative Aptitude

Q. 1 A, B and C started a business in partnership. Initially, A invested $₹ 29,000$, while B and C invested $₹ 25,000$ each. After 4 months, A withdrew ₹ 3,000 . After 2 more months, C invested ₹ 12,000 more. Find the share of C (in ₹) in the profit of $₹ 33,200$ at the end of the year.

Ans 1. 10,800
2. 10,000
3. 11,067
4. 12,400
Q. 2 If $\cos (A-B)=\frac{\sqrt{3}}{2}$ and $\sec A=2,0^{\circ} \leq A \leq 90^{\circ}, 0^{\circ} \leq B \leq 90^{\circ}$, then what is the measure of B ?

Ans 1. $60^{\circ}$
2. $0^{\circ}$
3. $30^{\circ}$
4. $90^{\circ}$
Q. 3 An alloy contains $40 \%$ of silver, $30 \%$ of copper and $30 \%$ of nickel. How much silver (in kg ) should be added to 25 kg of the alloy so that the new alloy contains $50 \%$ of silver?
Ans

1. 5
2. 10
3. 12
4. 20
Q. 4 Study the given bar graph and answer the question that follows.

The bar graph shows the exports of cars of type A and B (in ₹ millions) from 2014 to 2018.


In which year were the exports of cars of type $\mathrm{A} ₹ 55$ million less than the average exports (per year) of cars of type $B$ over the five years?

Ans

1. 2015
2. 2014
3. 2017
4. 2016
Q. 5 The given bar graph shows exports of cars of type A and B (in ₹ millions) from 2014 to 2018. Study the graph and answer the question that follows.
Exports of Cars of Type A and B (in ₹ millions) from 2014 to 2018.


The total exports of cars of type B in 2014 to 2017 is what per cent more than the total exports of cars of type A in 2015 to 2018? (Correct to one decimal place)

Ans

1. $5.6 \%$
2. $4.9 \%$
3. $6.5 \%$
4. $7.2 \%$
Q. 6 The given histogram shows the daily wages (in ₹) of workers in a factory.

Study the histogram and answer the question that follows.


The number of workers with daily wages less than ₹ 180 is what percentage of the number of workers with daily wages more than ₹ 190 ? Express your answer correct to one decimal place.

Ans

1. $85.6 \%$
2. $86.7 \%$
3. $75.8 \%$
4. $74.8 \%$
Q. 7 In a circle with centre $O$, chords $P R$ and $Q S$ meet at the point $T$, when produced, and $P Q$ is a diameter. If $\angle R O S=42^{\circ}$, then the measure of $\angle \mathrm{PTQ}$ is

Ans 1. $59^{\circ}$
2. $58^{\circ}$
3. $48^{\circ}$
4. $69^{\circ}$
Q. 8 O is the centre of a circle with diameter 20 cm . T is a point outside the circle and TA is a tangent to a circle. If OT is $=$ 26 cm , what is the length (in cm ) of the tangent TA?
Ans

1. 20
2. 26
3. 24
4. 18
Q. 9 Find the value of the following expression:

$$
980 \div 35 \times 16+4-2 \times 2
$$

Ans
$\times 1 . \frac{15}{2}$
2. 448
3. $\frac{7}{4}$

X4.556
Q. 10 What is the height (in cm ) of an equilateral triangle whose each side is 8 cm ?

Ans $\quad 4 \sqrt{3}$
2. $3 \sqrt{2}$
3. $4 \sqrt{2}$
4. $3 \sqrt{5}$
Q. 11 A sum invested at compound interest amounts to $₹ 7,800$ in 3 years and $₹ 11,232$ in 5 years. What is the rate per cent?

Ans

1. $26 \%$
2. $20 \%$
3. $15 \%$
4. $18 \%$
Q. 12 The width of the path around a square field is 4.5 m and its area is $105.75 \mathrm{~m}^{2}$. Find the cost of fencing the path at the rate of ₹ 100 per metre.
Ans 1. ₹550
5. ₹ 600
6. ₹ 275
7. ₹ 400
Q. 13 The length and the breadth of a rectangle are made to increase and decrease, respectively, by $8 \%$ and $10 \%$. What is the percentage increase or decrease in its area?
Ans 1. Decrease by $1.8 \%$
8. Increase by $1.8 \%$
9. Increase by $2.8 \%$
10. Decrease by $2.8 \%$
Q. 14 A vertical pole and a vertical tower are on the same level of ground in such a way that from the top of the pole, the angle of elevation of the top of the tower is $60^{\circ}$ and the angle of depression of the bottom of the tower is $30^{\circ}$. If the height of the tower is 76 m , then find the height (in m) of the pole.
Ans
X1. 38
11. $19 \sqrt{3}$
12. 19
13. 57
Q. 15 A pole 23 m long reaches a window which is $3 \sqrt{5} \mathrm{~m}$ above the ground on one side of a street. Keeping its foot at the same point, the pole is turned to the other side of the street to reach a window $4 \sqrt{15} \mathrm{~m}$ high. What is the width (in m ) of the street?
Ans
14. 17
15. 35
16. 39
17. 22
Q. $16 \mathrm{X}, \mathrm{Y}$ and Z can do a piece of work in 46 days, 92 days and 23 days, respectively. X started the work. Y joined him after 2 days. If Z joined them after 8 days from the beginning, then for how many days did X work?
Ans
18. 16
19. 21
20. 18
21. 13
Q. 17 What is the value of:
$8 \sqrt{3} \sin 30^{\circ} \tan 60^{\circ}-3 \cos 0^{\circ}+3 \sin ^{2} 45^{\circ}+2 \cos ^{2} 30$ ?
Ans
22. 15
23. 12
24. 9
25. 18
Q. 18 A car runs first 275 km at an average speed of $50 \mathrm{~km} / \mathrm{h}$ and the next 315 km at an average speed of $70 \mathrm{~km} / \mathrm{h}$. What is the average speed (in $\mathrm{km} / \mathrm{h}$ ) for the entire journey?
Ans
26. 58.5
27. 60
28. 59
29. 62
Q. 19 If $(4 x+2 y)^{3}+(4 x-2 y)^{3}=16\left(A x^{3}+B x y^{2}\right)$, then what is the value of $\frac{1}{2}\left(\sqrt{A^{2}+B^{2}}\right)$ ?

Ans 1. 8
2. 3
3. 5
4. 7
Q. 20 Find the greatest number which divides 108,124 and 156 , leaving the same remainder.

Ans 1. 18
2. 10
3. 12
4. 16
Q. 21 Monthly expenditure of a family on different heads is shown in the following pie chart. The family earns $₹ 1,08,000$ every month.

The money (in ₹) spent on Misc. Expenses is how much more than that spent on Children Education?
Expenditure on different Heads


Ans

1. 1,800
2. 1,350
3. 1,500
4. 1,200
Q. 22 The profit earned by selling an article for $₹ 832$ is equal to the loss incurred when the article is sold for $₹ 448$. What will be the selling price of the article if it is sold at a $10 \%$ loss?
Ans
5. ₹576
6. ₹540
7. ₹ 625
8. ₹ 640
Q. 23 In the first 10 overs of a cricket game, the run rate was only 7.2 . What should be the average run rate in the remaining 40 overs to reach the target of 272 runs?
Ans
9. 4
10. 5
11. 6
12. 7
Q. 24 How many numbers are there from 500 to 650 (including both) which are neither divisible by 3 nor by 7 ?

Ans 1. 21
2. 121
3. 87
4. 99
Q. 25 Simplify the following expression:

$$
\frac{\left(a^{2}-4 b^{2}\right)^{3}+64\left(b^{2}-4 c^{2}\right)^{3}+\left(16 c^{2}-a^{2}\right)^{3}}{(a-2 b)^{3}+(2 b-4 c)^{3}+(4 c-a)^{3}}
$$

Ans

1. $-(a+2 b)(b+2 c)(4 c+a)$
2. $2(a+2 b)(b+2 c)(4 c+a)$
3. $(a+2 b)(b+2 c)(4 c+a)$
4. $4(a+2 b)(b+2 c)(4 c+a)$

## Section : English Comprehension

Q. 1 Select the INCORRECTLY spelt word.

Ans $\quad \times 1$. Retort
X 2. Retrieve
3. Revange

X 4. Return
Q. 2 Select the correct indirect speech form of the given sentence.

Mother said, "'m worried about your safety."
Ans 1. Mother told me that she was worried about my safety.
2. Mother said she is worried about your safety.
3. Mother told me that she had been worried about my safety.
4. Mother said that I was worrying about your safety.
Q. 3 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Of the two plans submitted by the architect, this is the one more likely to be accepted.
Ans
$X$ 1. much likely
2. No substitution required
3. most likelihood
4. most likely
Q. 4 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The first meeting of the Standing Committee will be hold next week.
Ans
$X$ 1. No substitution required
$X$ 2. will be holding next week
3. will be held next week
4. will held next week
Q. 5 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 can help you to decide the right products for you.
B. Advertisements can be extremely useful if they are honest.
C. Teenagers are especially vulnerable to such advertisements.
D. However, some advertisements may be harmful as they try to befool you.

Ans
$\times 1$. CDAB
2. BADC
$\times 3$ BCAD
X 4. CADB
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

One who supervises students in an examination hall
Ans

1. Invigilator

X 2. Inspector
$X$ 3. Examinee
X 4. Teacher
Q. 7 Select the most appropriate synonym of the given word.

Taciturn
Ans $\quad X 1$. Verbose
X 2. Noisy
3. Lively
4. Reserved
Q. 8 Select the most appropriate synonym of the given word.

Vertical
Ans 1.Upright
$X$ 2. Equal
$X$ 3. Parallel
X 4. Shaky
Q. 9 Select the most appropriate meaning of the given idiom.

## Cake walk

Ans $\quad \times$ 1. Something tasty
2. Something easy
$X$ 3. Something sweet
X 4 . Something enjoyable
Q. 10 Select the option that expresses the given sentence in passive voice.

Give the child a nourishing diet.
Ans $\quad \times 1$. The child is given a nourishing diet.
$X$ 2. The child was given a nourishing diet.
3. The child should be given a nourishing diet.
$X 4$. The child must have given a nourishing diet.
Q. 11 Select the most appropriate ANTONYM of the given word.

Tenacious
Ans $\quad \times$ 1. Steadfast
$X$ 2. Relentless
3. Persistent
4. Yielding
Q. 12 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

We stayed / in Jim's flat / during he was / on holiday.
Ans $\quad \times$ 1. on holiday
2. during he was

X 3. in Jim's flat
4. We stayed
Q. 13 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He allowed / his son to drive / but he warn him / of the danger.
Ans

1. but he warn him
2. of the danger
3. He allowed
4. his son to drive
Q. 14 Select the option that gives the most appropriate meaning of the underlined idiom.

The Chairman of our company takes care of the rank and file in the company.
Ans

1. Ordinary people
$X$ 2. Documents and files
X 3. Only the top rank people
$\times 4$. Officers
Q. 15 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.

Did you baked / the chocolate cake / yourself this time?
Ans

1. Did you baked
2. No error
3. yourself this time
4. the chocolate cake
Q. 16 Select the most appropriate option to fill in the blank.

Global warming or climate change has today become a major $\qquad$ to mankind.

Ans
$X$ 1. penalty
2. punishment
3. threat
4. endanger

## Q. 17 Select the most appropriate ANTONYM of the given word.

ROUGH
Ans
$X 1$. Coarse
$X$ 2. Crude
3. Smooth
4. Thick
Q. 18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Do you / recall to meet / her at the party / last night?
Ans
X 1. last night
2. her at the party

X 3. Do you
4. recall to meet
Q. 19 Select the option that can be used as a one-word substitute for the given group of words.

Walk or move at a slow, relaxed pace
Ans

1. Amble
$X$ 2. Strut
X 3. Romp
X 4. Prance

## Q. 20 Select the option that expresses the given sentence in passive voice.

She gifted me a beautiful handbag.
Ans $\quad \times 1.1$ am gifted a beautiful handbag by her.
X 2 . I am being gifted a beautiful handbag by her.

- 3. I was gifted a beautiful handbag by her.
$X 4$. I have been gifted a beautiful handbag by her.


## Comprehension:

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

The importance of physical exercise in (1) $\qquad$ the incidence of heart attacks cannot be under estimated. The rise of heart attacks has been attaining (2) $\qquad$ proportion in recent times causing grave concern specially to the medical (3) $\qquad$ Walking is the best mode of physical exercise which (4) $\qquad$ no equipment, money, material or (5).of a club.

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

Ans $\times 1$.increasing
$\times 2$. emphasising
3. minimising
$\times$ 4.maximising

## Comprehension

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

The importance of physical exercise in (1) $\qquad$ the incidence of heart attacks cannot be under estimated. The rise of heart attacks has been attaining (2)___ proportion in recent times causing grave concern specially to the medical (3)___ Walking is the best mode of physical exercise which (4) $\qquad$ no equipment, money, material or (5) of a club.

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

Ans
X 1. low
$X$ 2. capacious
$X$ 3. soothing
4. alarming

## Comprehension:

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

The importance of physical exercise in (1) $\qquad$ the incidence of heart attacks cannot be under estimated. The rise of heart attacks has been attaining (2) $\qquad$ proportion in recent times causing grave concern specially to the medical (3) $\qquad$ Walking is the best mode of physical exercise which (4) $\qquad$ no equipment, money, material or (5).of a club.

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

Ans $\quad \times 1$.creed
$X$ 2. class
3. fraternity

X 4. persons

## Comprehension:

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

The importance of physical exercise in (1) $\qquad$ the incidence of heart attacks cannot be under estimated. The rise of heart attacks has been attaining (2) $\qquad$ proportion in recent times causing grave concern specially to the medical (3) $\qquad$ Walking is the best mode of physical exercise which (4) $\qquad$ no equipment, money, material or (5) of a club.

SubQuestion No: $\mathbf{2 4}$
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans $X$ 1. loses
$X$ 2. gains
3. requires
$\times 4$. finds

## Comprehension:

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

The importance of physical exercise in (1) ___ the incidence of heart attacks cannot be under estimated. The rise of heart attacks has been attaining (2)___ proportion in recent times causing grave concern specially to the medical (3)__. Walking is the best mode of physical exercise which (4) $\qquad$ no equipment, money, material or (5) of a club.

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

Ans $\times$ 1.correlation
2. membership
$X$ 3. exemption
X 4. scholarship

## Combined Graduate Level Examination 2021 Tier - I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 11/04/2022 |
| Exam Time | 4:00 PM - 5:00 PM |
| Subject | CGLE 2021 Tier I |

## Section : General Intelligence and Reasoning

Q. 1 Which two signs should be interchanged to make the given equation correct?
$\mathbf{3 2 + 2 4 \times 4 \div 1 6 - 6 4 = 9 0}$
Ans $\quad \times 1 .+$ and $\times$
2. + and-

X 3. $\div$ and +
X $4 . \div$ and $\times$
Q. 2 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 $\quad \times 1$.RCN
X 2. UFQ

- 3. YJB
X.EPA
Q. 3 If $90 \%$ of a number is $\mathbf{6 2 1}$, what will be $\mathbf{5 0 \%}$ of $\mathbf{2 0 \%}$ of that number?

Ans $\times 1.79$
$\times 2.54$
$\times 3.74$
v 4.69
Q. 4 Select the correct mirror image of the given combination when the mirror is placed at ' $P Q$ ' as shown.

## $5 \mathrm{gstfncK}{ }^{\mathrm{P}}$

Ans




Q. 5 In a certain code language, 'do or die' is written as 'su ru ko', 'let us do it' is written as 'ko mo yo zu' and 'this or that' is written as 'ga tu ru'. How will 'die' be written in that language?
Ans
, 1.su
2. ru
3. ku
4. ko
Q. 6 ' $A$ \% $B$ ' means ' $A$ is the sister of $B$ '.
' $A \$ B$ ' means ' $A$ is the brother of $B$ '.
' $A$ @ $B$ ' means ' $A$ is the son of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the mother of $B$ '.
If ' $\mathrm{R} \% \mathrm{~T} \& \mathrm{Z}$ \$ S @ V @ C \% $\mathrm{Y}^{\prime}$, then which of the following statements is NOT correct?
Ans $\quad \mathbf{X} 1 . \mathrm{C}$ is the paternal grandmother of $Z$.
$X 2 . \mathrm{V}$ is the father of Z .
3. T is the daughter of C .
$X 4$. T is the mother of $S$.
Q. 7 In a certain code language, 'SANCTION' is written as 'TZOBUHPM'. How will 'TELEVISE' be written in that language?
Ans
$X 1$.UDNDWGTF
X 2. SFKGUHRD
X 3.UDMDUHTF
4. UDMDWHTD
Q. 8 Reeta is standing facing south-east. First, she turns $135^{\circ}$ clockwise. After that, she turns $90^{\circ}$ anticlockwise. Then she turns $45^{\circ}$ clockwise, followed by a $135^{\circ}$ anticlockwise turn. In which direction is she facing now?
Ans 1. East
2. North-east
3. South-east
4. South
Q. 9 Select the Venn diagram that best represents the relationship between the following.

Doctors, Married, Females
Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

Q. 10 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 11 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Junketeered
2. Junction
3. Junketers
4. Junketeering
5. Junctures

Ans $\times 1.2,5,4,3,1$
X 2. 1, 4, 2, 3, 5

- $3.2,5,1,4,3$

X4.2,5,3,1,4

Q. 13 Six houses, $A, B, C, D, E$ and $F$, are situated in a colony. $D$ is 60 m south of $E$. $F$ is 40 m south of $B$. $A$ is 30 m north of $E$. $F$ is 50 m east of $A$. $C$ is 50 m west of $B$. Find the location of $C$ with reference to $A$.
Ans $\quad \times 1.30 \mathrm{~m}$ east
2.50 m north
3.40 m north

X 4.40 m south
Q. 14 Study the given matrix carefully and select the number from among the given options that can replace the question mark (?) in it.

61842
515 ?
73661
Ans
1.30
$\times 2.53$
$\times 3.25$
$\times 4.45$
Q. 15 Select the number from among the given options that can replace the question mark
(?) in the following series.
17, 16, 32, 29, 116, ?
Ans $\times 1.121$

- 2.111

X 3.71
$\times 4.81$
Q. 16 Select the option in which the two numbers are related in the same way as are the two numbers of the following number-pair.

14: 450
Ans
X 1.31:961
X 2. $30: 902$
X 3.22:490

- 4.18:722
Q. 17 A cube is made by folding the given sheet. In the cube so formed, which number will be on the face opposite to the face having the number ' 1 '?


Ans

1. 6
2. 3
3. 2
4. 4
Q. 18 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

PDK : QFN:: SJQ:?
Ans
X 1.ULS

- 2. TLT
$\times$ 3.TMS
X 4.UNT
Q. 19 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 printers are coolers.
No cooler is a telephone.
All machines are telephones.
Conclusions:
I. Some printers are machines.
II. No machine is a cooler.

Ans

1. Only conclusion II follows

X 2. Only conclusion I follows
X 3. Neither conclusion I nor II follows
$X$ 4. Both the conclusions follow
Q. 20 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

KMTC, EVOM, OQXG, IZSQ, ?
Ans
X1.SUCL
X 2. SVCK
X 3. TVBK
4. SUBK
Q. 21 Select the option that is embedded in the given figure (X) (rotation is NOT allowed).

(X)

Ans
X1. $\square \square$
$\times 2$.

3. $\square$
4. 4
Q. 22 If ' $A$ ' denotes 'addition', ‘ $B$ ' denotes 'multiplication', ' $C$ ' denotes 'subtraction' and ' $D$ ' denotes 'division', then what will be the value of the following expression?

8 B (4 A 5) C (99 A 27) D 14 A 5 B (112 D 16)
Ans
X 1.85

- 2.98
$\times 3.107$
X 4.116
Q. 23 Select the number from among the given options that can replace the question mark (?) in the following series.

45, 68, 99, ?, 187, 246, 313
Ans

- 1.140
$\times 2.117$
$\times 3.166$
X4.105
Q. 24 In a certain code language, ‘TURKEY' is written as ' 76911525 '. How will 'BREATH’ be written in that language?
Ans
X 1.218526208

2. 259221208

X 3.259221197
$\times 4.251841208$
Q. 25 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.

SP__PSTS__SPS_
Ans
X1.PSSPPSS
X 2.TSSPTSS
3.STSPSTT

X4.PSTSPTT

## Section : General Awareness

Q. 1 is the first woman hockey player to receive the Rajiv Gandhi Khel Ratna Award.

Ans 1. Rani Rampal
X 2. Vandana Katariya
X 3. Nikki Pradhan
$\times$ 4. Sharmila Devi
Q. 2 In which of the following Indian states will you find the Buxa Fort?

Ans $\times$ 1. Odisha
X 2. Karnataka
3. West Bengal

X 4. Tamil Nadu
Q. $3 \ldots \quad$ refers to a sanitation system in which toilets collect human excreta in sealable, removable cartridges that are transported to treatment facilities.
Ans $\quad \times 1$. Ecological sanitation
2. Container-Based sanitation

X 3. Community-led total sanitation
X 4. Dry sanitation
Q. 4 Who among the following is the author of the book 'Social Harmony'?

Ans
X 1. HD Deve Gowda
2. PV Narsimha Rao
3. Narendra Modi

X 4. Manmohan Singh
Q. 5 The number of deaths during the first 28 completed days of life per 1000 live births in a given year or period is defined as $\qquad$ —.
Ans

1. neonatal mortality rate
2. age-specific mortality rate
3. crude mortality rate
4. infant mortality rate
Q. 6 As per the Union Budget 2021-22, the government plans to continue on the path of fiscal consolidation, achieving a fiscal deficit level below $4.5 \%$ of GDP by $\qquad$ .
Ans
X 1.2023-24
X 2. 2022-23
X 3.2024-25

- 4.2025-26
Q. 7 Odisha has set $\qquad$ as the target year for providing 100\% functional household tap water connections in every rural household.
Ans
- 1. 2023-24

X 2. 2024-25
X 3.2025-26
X 4.2022-23
Q. 8 Justice NV Ramana, appointed as the 48th Chief Justice of India, hails from which of the following states?
Ans
X 1. Karnataka
2. Maharashtra
$X$ 3. Kerala
4. Andhra Pradesh
Q. 9 Why is water fluoridation, which is the controlled adjustment of fluoride to public water supply, done?
Ans

1. To prevent tooth decay
2. To prevent eye disease
3. To prevent bone disease
4. To prevent vitamin deficiency
Q. 10 As per the Economic Survey 2020-21, net FPI (Foreign Portfolio Investment) recorded an all-time monthly high of US $\$ 9.8$ billion in $\qquad$ —.
Ans
X 1. October 2020
X 2. December 2020
X 3. September 2020
5. November 2020
Q. 11 Which of the following cities will be known as 'the sports city of India' from February 2021?

Ans
$X$ 1. Gurugram
X 2. Hyderabad
3. Ahmedabad

X 4. Bengaluru
Q. 12 Which bank is referred to as 'The lender of last resort'?

Ans

1. Central Bank

X 2. State Bank
3. Dena Bank
4. World Bank
Q. 13 How many female members were part of the Constituent Assembly that framed the Constitution of India?
Ans
X 1.12
X2. 10
3. 14
4. 15
Q. 14 The pilgrimage sites of Nasik, Triyambak and Bhadrachalam lie on the banks of which of the following rivers?
Ans
$X$ 1. Krishna
2. Godavari
$X$ 3. Narmada
X 4.Brahmaputra
Q. 15 Which of the following is an example of monosaccharides?
A. Fructose B. Sucrose C. Starch D. Glucose

Ans $\quad \times$ 1. Only B
2. Both A and D
$X$ 3. Both B and C
X4. Only C
Q. 16 The efforts of Siddhendra Yogi have brought glory to the dance form called

Ans $\times 1$. Bharatanatyam
X 2. Mohiniyattam
3. Kuchipudi

X 4. Kathakali
Q. 17 A__tank is an underground chamber made of concrete, fiberglass, or plastic through which domestic wastewater (sewage) flows for basic treatment.
Ans
$X$ 1. soap
$X$ 2. pressure
X 3.flush
4. septic
Q. 18 The idea of having a provision for a Bicameral Parliament in the Constitution of India was borrowed from the $\qquad$ Constitution.
Ans
$X$ 1. French
X 2. Canadian
3. British
$\times 4$. Irish
Q. 19 Splashing the mud and racing across the fields, the roaring buffalos raced by a man are typical sights for which of the following festivals of Karnataka?
Ans
X 1. Mahamastakabhisheka
X 2. Pattadakal
3. Kambala
4.Karaga
Q. 20 Poor sanitation conditions may NOT be the likely reason behind which of the following diseases/conditions?

Ans
$X$ 1. Typhoid
X 2. Cholera
3. Arthritis

X 4. Polio
Q. 21 Which of the following statements is/are correct regarding the mountains?

I- Mountains may be arranged in a line known as range.
II-The Aravali range in India is one of the oldest fold mountain systems in the world.
III- Mt. Kilimanjaro in South America is an example of Volcanic Mountain
Ans

1. Only I and II
$X$ 2. Only II
X 3. I, II and III
X 4. Only 1
Q. 22 The Right of Children to Free and Compulsory Education Act 2009 is an Act of Parliament which came into force in:
Ans
X 1.2012
X 2. 2011
X 3.2009
2. 2010
Q. $23 \ldots$ was conferred the honorary rank of General of the Nepali Army in November 2020.

Ans $\quad \times 1$. Air Chief Marshal RKS Bhadauria
2. General MM Naravane

X 3. General Bipin Rawat
$X$ 4. Admiral Karambir Singh

## Q. 24 Which two kings fought in the Battle of Hydaspes?

Ans $\quad \times 1$. Chandragupta and Dhana Nanda
2. Alexander and Porus

X 3. Ashoka and Mahapadmanabha
$X$ 4. Mihirakula and Yasodharman
Q. 25 Under which of the following rulers did Delhi first became a capital?

Ans $\quad \times 1$. Chauhans of Ajmer
X 2. Ittutmish Dynasty
X 3. Khilji Dynasty
4. Tomara Rajputs
Q. 1 Performance of 1800 students in grades has been shown in the following pie chart.

In which two grades taken together is the number of students 54 less than the number of students in grades $B$ and $E$ taken together?


Ans 1. C and E
2. B and D
3. $A$ and $E$
4. C and D
Q. 2 The average of $52,71,43,22$, a and $b$ is 55 and the average of $42,45,49,51,42, \mathrm{c}$, and d is 53 . What is the average of $\mathrm{a}, \mathrm{b}, \mathrm{c}$, and d?
Ans

1. 54.7
2. 71
3. 54
4. 142
Q. 3 The following bar graph shows the total number of youth (in lakhs) and the number of employed youth (in lakhs) in 5 states A, B, C, D and E.

Which state has the maximum number of unemployed youth?


Ans 1. D
2. B
3. E
4. A
Q. 4

If $\mathrm{x}=4+\sqrt{15}$, what is the value of $\left(x^{2}+\frac{1}{x^{2}}\right)$ ?
Ans

1. 48
2. 54
3. 72
4. 62
Q. 5 A person sold an article at a loss of $18 \%$. Had he sold it for $₹ 960$ more, he would have gained $12 \%$. If the article is sold for $₹ 3,840$, then how much is the profit percentage?
Ans
5. $15 \%$
6. $24 \%$
7. $20 \%$
8. $21 \%$
Q. 6 In $\triangle \mathrm{LMN}$, the bisectors of $\angle \mathrm{L}$ and $\angle \mathrm{N}$ intersect at an angle of $112^{\circ}$. What is the measure (in degrees) of $\angle \mathrm{M}$ ?

Ans 1. 62
2. 60
3. 44
4. 72
Q. 7 A boatman can row his boat in still water at a speed of $9 \mathrm{~km} / \mathrm{h}$. He can also row 44 km downstream and 35 km upstream in 9 hours. How much time (in hours) will he take to row 33 km downstream and 28 km upstream?

Ans

1. 7
2. 5
3. 6
4. 8
Q. 8 In $\triangle A C D, B$ and $E$ are two points on side $A C$ and $A D$ respectively, such that $B E$ is parallel to $C D . C D=9 \mathrm{~cm}, \mathrm{BE}=6$ $\mathrm{cm}, \mathrm{AB}=5 \mathrm{~cm}$ and $\mathrm{ED}=2 \mathrm{~cm}$. What are the measures of the lengths (in cm ) of AE and BC ?

Ans

1. $4,2.5$
2. 3,4
3. 4,3
4. $2.5,4$
Q. 9 A kite is attached to a string. Find the length of the string (in m ) when the height of the kite is 90 m and the string makes an angle of $30^{\circ}$ with the ground.

Ans

1. 180
2. $90 \sqrt{3}$
3. 45
4. $60 \sqrt{3}$
Q. 10 The reduction of $15 \%$ in the price of salt enables a person to buy 2 kg more for $₹ 272$. The reduced price of salt per kg (in ₹) is:
Ans 1. 20.40
5. 22.16
6. 24.25
7. 25.00
Q. 11 If p is the third proportional to 8,20 and q is the fourth proportional to $3,5,24$, then find the value of $(2 \mathrm{p}+\mathrm{q})$.

Ans 1. 140
2. 126
3. 90
4. 104
Q. 12 A sum of money was borrowed and paid back in two equal annual instalments of $₹ 980$, allowing $4 \%$ compound interest. The sum (in ₹, to the nearest tens) borrowed was:
Ans

1. 1,850
2. 1,960
3. 1,760
4. 2,050
Q. 13 Two circles touch each other externally at T. RS is a direct common tangent to the two circles touching the circles at $P$ and $\mathrm{Q} . \angle T P Q=42^{\circ} . \angle P Q T$ (in degrees) is:
Ans
5. 48
6. 45
7. 42
8. 60
Q. 14 If $\sec A=\frac{17}{8}$, given that $A<90^{\circ}$, what is the value of the following? $\frac{34 \sin A+15 \cot A}{68 \cos A-16 \tan A}$

Ans

1. 23
2. 19
3. 30
4. 38
Q. 15 AB is the diameter of a circle with centre $\mathrm{O} . \mathrm{C}$ and D are two points on the circumference of the circle on either side of AB , such that $\angle \mathrm{CAB}=42^{\circ}$ and $\angle \mathrm{ABD}=57^{\circ}$. What is difference (in degrees) between the measures of $\angle \mathrm{CAD}$ and $\angle$ CBD?
Ans 1. 105 and 75
5. 75 and 105
6. 81 and 99
7. 99 and 81
Q. 16 If $a^{2}+b^{2}+c^{2}=6.25$ and $(a b+b c+c a)=0.52$, what is the value of $(a+b+c)$, if $(a+b+c)<0$ ?

Ans

1. $\pm 2.7$
2. -2.7
3. -2.8
4. $\pm 2.8$
Q. 17 What is the greatest number by which when 156,181 and 331 are divided, the remainder is 6 in each case?

Ans

1. 26
2. 17
3. 25
4. 13
Q.18 A can finish a piece of work in 48 days and $B$ can finish it in 60 days. They work together for 12 days and then A goes away. In how much time (in days and hours) will B finish $25 \%$ of the remaining work?
Ans
5. 6 days 4 hours
6. 8 days 8 hours
7. 6 days 6 hours
8. 8 days 6 hours
Q. 19 The following pie-charts show the number of students studying in different departments of an institute during the academic years 2019 and 2020. The total number of students was 2000 and 2400 in academic years 2019 and 2020, respectively.

What is the percentage increase or decrease in the number of students of Engineering in 2020 as compared to 2019? (correct to 2 decimal places)


Academic year 2019


Academic year 2020

Ans

1. $10.55 \%$
2. $11.77 \%$
3. $10.77 \%$
4. $10.25 \%$
Q. 20 A 35 cm high bucket in the form of a frustum is full of water. Radii of its lower and upper ends are 12 cm and 18 cm , respectively. If water from this bucket is poured in a cylindrical drum, whose base radius is 20 cm , then what will be the height of water $(\mathrm{in} \mathrm{cm})$ in the drum?

Ans

1. 16.25
2. 18.25
3. 19.95
4. 20.50
Q. 21 Study the given histogram that shows the height $(\mathrm{in} \mathrm{cm}$ ) of 100 students in an athletic team and answer the question that follows.


Express the number of students with height less than 170 cm as the percentage (correct to one decimal place) of the number of students with height more than 160 cm .

Ans

1. $46.3 \%$
2. $73.5 \%$
3. $29.1 \%$
4. $53.7 \%$
Q. 22 If $\tan ^{2} A+2 \tan A-63=0$ Given that $0<A<\frac{\pi}{2}$ what is the value of $(2 \sin \mathrm{~A}+5 \cos \mathrm{~A})$ ?

Ans
X1. $19 \sqrt{50}$
2. $15 \sqrt{50}$
3. $\frac{19}{\sqrt{50}}$
4. $\frac{15}{\sqrt{50}}$
Q. 23 In a manufacturing unit, it was noted that the price of raw material has increased by $25 \%$ and the labour cost has gone up from $30 \%$ of the cost of raw material to $38 \%$ of the cost of the raw material. What percentage of the consumption of raw material be reduced to keep the cost the same as that before the increase?
Ans

1. $20.7 \%$
2. $30.2 \%$
3. $24.6 \%$
4. $25.5 \%$
Q. 24 If the 7 -digit number x 8942 y 4 is divisible by 56 , what is the value of $\left(\mathrm{x}^{2}+\mathrm{y}\right)$ for the largest value of y , where x and y are natural numbers?
Ans
5. 33
6. 44
7. 55
8. 70
Q. 25 Simplify the following expression:
$\frac{3 \frac{1}{2}+5 \frac{1}{3} \div 1 \frac{1}{3} \times 5 \frac{1}{4}-5 \frac{1}{2}}{1 \frac{1}{2} \times 1 \frac{2}{3}-6 \frac{1}{2}} \div 7 \times 2$
Ans
$\times 1 \cdot \frac{13}{147}$
×2. $29 \frac{9}{32}$
จ3. $-1 \frac{5}{14}$
x4. $-\frac{5}{28}$

## Section : English Comprehension

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

How many candidates had been interviewed by him before lunch?
Ans $\quad$ 1. How many candidates has he interviewed before lunch?
$X$ 2. How many candidates did he interview before lunch?
3. How many candidates had he interviewed before lunch?
$X 4$. How many candidates was he interviewing before lunch?
Q. 2 Select the most appropriate synonym of the given word.

Smooth
Ans

1. Flat
2. Uneven
3. Rough
4. Broken
Q. 3 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The student apologised the teacher for the delay in submitting the assignment.
Ans
$X$ 1. No substitution required
$X$ 2. is apologising the teacher
3. apologised to the teacher

X 4. has apologised the teacher
Q. 4 Select the option that expresses the given sentence in indirect speech.

She said, "The stars are shining brightly tonight."
Ans
$X 1$. She said the stars are shining brightly tonight.
2. She said that the stars were shining brightly that night.
$X 3$. She said the stars were shining brightly tonight.
$X 4$. She asked if the stars were shining brightly that night.
Q. 5 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The recently hike / in the price of petroleum products / will hit / household budgets severely.
Ans

1. will hit
2. The recently hike
$X$ 3. household budgets severely
3. in the price of petroleum products
Q. 6 Select the most appropriate option to fill in the blank.

Their idea of a holiday $\qquad$ at a luxury resort.
Ans $\quad X$ 1. is relax
$X 2$. is relaxed
$X 3$. is to relaxing
4. is relaxing
Q. 7 Given below are four jumbled sentences. Select the option that gives their correct order.
A. Our amusements have little zest if we engage in them in solitude.
B. Friendship increases happiness and diminishes misery.
C. It doubles our joys and divides our grief.
D. When we do well, it is delightful to have friends who are pleased with our success.

Ans

1. BCDA
$\times 2$. ABDC
X 3.CBAD
X4.DACB
Q. 8 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Your name / precedes before mine / in the / admission list.
Ans $\quad \times 1$. Your name
$X$ 2. in the
3. precedes before mine

X 4. admission list
Q. 9 Select the option that gives the most appropriate meaning of the underlined idiom.

I am working on too many projects. I think I have bitten off more than I can chew.
Ans $\times 1$. Not able to finish work
2. To take on more than one can handle

X 3. To be happy to multitask
X 4. To find work dull
Q. 10 Select the most appropriate synonym of the given word.

Imminent
Ans $\quad \times 1$. Unyielding
X 2. Ignorant
3. Impending

X 4. Distant
Q. 11 Select the option that can be used as a one-word substitute for the given group of words.

A sound that cannot be heard
Ans $\quad \times 1$. Inedible
2. Inaudible

X 3. Indelible
X 4. Audible
Q. 12 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Computer crime have been in the news since the nineteen eighties.
Ans $\quad \times 1$. has been in the news from
2. has been on the news since
3. has been in the news since
4. No substitution required
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.

A glass container to keep fish
Ans

1. Aquarium
2. Atrium
3. Beaker
4. Vase
Q. 14 Select the option that expresses the given sentence in active voice.

Trumpets are being blown by the soldiers to announce the victory.
Ans $\quad \times 1$. The soldiers were blowing the trumpets to announce the victory.
X 2. The soldiers blow the trumpets to announce the victory.
3. The soldiers are blowing the trumpets to announce the victory.
4. The soldiers blew the trumpets to announce the victory.
Q. 15 Select the option that gives the most appropriate meaning of the underlined idiom.

It is good to take into account all the important factors before making a decision.
Ans
$X$ 1. leave
2. select
3. control
4. consider
Q. 16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

No sooner did / the child start crying / then the mother / hugged him.
Ans
$X$ 1. No sooner did
2. then the mother
$X$ 3. hugged him
$X$ 4. the child start crying
Q. 17 Select the most appropriate ANTONYM of the given word.

## Camaraderie

Ans

1. Dislike
2. Amity
3. Companionship
4. Friendship
Q. 18 Select the most appropriate ANTONYM of the given word.

## Criticise

Ans $\quad \times$ 1. Disappoint
$X 2$. Forgive
X 3. Prevent
4. Praise
Q. 19 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

It is not worth / having the trouble / to write to him / as he never replies.
Ans $\times 1$. as he never replies
$X$ 2. to write to him
X 3. It is not worth
4. having the trouble
Q. 20 Select the correctly spelt word.

Ans

1. Weird
2. Cansel
3. Recieive
4. Prepair

## 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.

How should one read a story to a child? Usually, a personality or character of the story (1)
$\qquad$ the child's interest the most. (2) $\qquad$ , use different voices (3) $\qquad$ each
character or act out various (4)___ from the story, to bring life to those characters. (5)
$\qquad$ out parts from the story will make story sessions fun and memorable for the kids.

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

Ans
$X$ 1. caught
$X$ 2. catch
3. catches
$X$ 4. has caught

## 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.

How should one read a story to a child? Usually, a personality or character of the story (1) the child's interest the most. (2) $\qquad$ , use different voices (3) each
character or act out various (4)___ from the story, to bring life to those characters. (5)
$\qquad$ out parts from the story will make story sessions fun and memorable for the kids.

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

Ans $\quad \times 1$. Either
2. So

X 3. Also
X 4. However

## 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.

How should one read a story to a child? Usually, a personality or character of the story (1) the child's interest the most. (2) $\qquad$ , use different voices (3) each
character or act out various (4) _____ from the story, to bring life to those characters. (5) $\ldots \quad$ _ out parts from the story will make story sessions fun and memorable for the kids.

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

Ans

1. for

X 2. by
X 3. with
X 4. from

## 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.

How should one read a story to a child? Usually, a personality or character of the story (1)
$\qquad$ the child's interest the most. (2) $\qquad$ use different voices (3) $\qquad$ each character or act out various (4)___ from the story, to bring life to those characters. (5)
$\qquad$ out parts from the story will make story sessions fun and memorable for the kids.

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

Ans $\times 1$.pages
$\chi$ 2. sheets
3. parts

X 4. words

## 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.

How should one read a story to a child? Usually, a personality or character of the story (1) the child's interest the most. (2) ___, use different voices (3) each character or act out various (4)____from the story, to bring life to those characters. (5) ___ out parts from the story will make story sessions fun and memorable for the kids.

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

Ans $\quad \times 1$. Saying
2. Acting

X 3. Telling
X 4. Asking

