## Combined Graduate Level Examination 2021 Tier - I

| Roll Number |  |
| :--- | :--- |
| Candidate Name | Exmpapers247.com |
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| Subject | CGLE 2021 Tier I |

## Section : General Intelligence and Reasoning

Q. 1 Select the option that is related to the third term in the same way as the second term is related to the first term.

FASTER : AEFRST :: KINGDOM : ?
Ans $\quad$ 1. DGIKNOM
2. DGIKMNO

X 3. DIGKMNO
X 4.DGKIMON


Question ID : 65497843174
Status: Answered
Chosen Option : 2
Q. 2 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

SKHM, OODQ, KSZU, GWVY,?
Ans
X 1. CBRD
2. CARC
$\times$ 3. BAQC
$\times$ 4.CASC $\square$
Question ID : 65497842969
Status: Marked For Review
Chosen Option : 2
Q. 3 An amount of ₹ 1,003 is to be distributed among A, B and $C$ in the ratio of $11: 23: 25$. How many rupees would $B$ get more than $A$ ?
Ans

1. ₹204

X 2 . ₹ 238
$\times 3$. ₹ 29
$\times 4$. 187 $\square$
Q. 4 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.

5 : 27 :: 7 : ? :: 8 : 39
Ans $\times 1.36$
$\times 2.38$
X 3.37

- 4.35
Q. 5 ' $Z+Y$ ' means ' $Y$ is the son of $Z$ '.
' $Z$ \$ $Y$ ' means ' $Y$ is the father of $Z$ '.
' Y \% Z ' means ' Y is the son-in-law of Z '.
' $Z-Y$ ' means ' $Y$ is the wife of $Z$ '.
' $Y^{*} Z$ ' means ' $Z$ is the brother of $Y$ '.
' $Y$ \# Z' means ' $Z$ is the only sister of $Y$ '.
Which two symbols can sequentially replace the question marks (?) in the following expression to show that ' $D$ is the wife of $W$ '?
W \% O-B? C? D
Ans $\times 1 .+$ and -

2. \% and -
3. \$ and +

- 4.         + and \#
Q. 6 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

1. PSH

X ${ }_{2 . S W D}$
X 3.FJQ
>4.LPK
Q. 7 'PSQ' means ' P is to the north of Q '.
'P\&Q' means ' $P$ is to the east of $Q$ '.
' P *Q' means ' Q is to the west of P '.
'P\%Q' means ' Q is to the south of P '.
' $\mathrm{P} @ \mathrm{QR}$ ' means ' P stands exactly in the middle of horizontal line QR '.
' $\mathrm{P}!\mathrm{QR}$ ' means ' P stands exactly in the middle of vertical line QR '.
Note: 'P6mSQ' means ' $P$ is 6 m to the north of Q ' and so on.
Find the shortest distance between G and C in the following expression.
C12mSS5m*G3m\&J6m\%K!JT
Ans

1. 12 m
2. 10 m
3. 15 m
4. 13 m
Q. 8 In a certain code language, 'BUILDER' is written as 'VZNFXJL'. How will 'PARKING' be written in that language?
Ans $\quad$ 1. JLFNEHA
5. EIFLBIM
6. JFLENHA
7. IELFMIB
Q. 9 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
8. Hatchability
9. Hatchel
10. Hatchers
11. Hatchback
12. Hatchings

Ans
X 1.1, 4, 2, 5, 3
C 2. 4, 1, 2, 5, 3
(3.4,1,2,3,5
4. 1, 4, 2, 3, 5
Q. 10 Which two digits should be interchanged to make the given equation correct?
$37+1152 \times 8 \div 768-47=22$
Ans

1. 3 and 4

人2. 2 and 3
X 3.4 and 5
X4. 5 and 6
Q. 11 Bindu, Krunal, Manoj, Nilima, Omkar, Piyush, Renu and Sundar are sitting around a circular table facing the centre, but not necessarily in the same order. Sundar sits second to the right of Piyush. Only two persons sit between Sundar and Krunal. Omkar sits opposite to Bindu, who is not an immediate neighbour of Krunal and Piyush. Nilima is the immediate neighbour of Krunal and Bindu. Manoj sits third to the right of Bindu.

Which of the following statements is/are true?
Ans $\quad$ 1. Manoj is the immediate neighbour of Nilima.
2. Sundar sits third to the right of Krunal.
3. Nilima sits opposite the one who sits to the immediate left of Renu.
4. Omkar is the immediate neighbour of Renu and Piyush.
Q. 12 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 calculators are markers.
Some markers are pencils.
Some pencils are erasers.
Conclusions:
I. Some erasers are markers.
II. Some pencils are calculators.

Ans 1. Neither conclusion I nor II follows.
X 2. Both the conclusions follow.
X 3. Only conclusion I follows.
X 4. Only conclusion II follows.

Q． 13 Select the correct mirror image of the given combination when the mirror is placed at＇ PQ ＇as shown．
7DIS cHVrGE $\left.5\right|_{Q} ^{P}$
Ans
1．ટヨもっトHェ々Iの「
2．」DI々ょHAcGE？
3．$\triangle \mathrm{DI} \mathrm{C}^{\circ} \mathrm{HA} \mathrm{A}^{\mathrm{I}} \mathrm{CE}$ ？


Q． 14 Select the number from among the given options that can replace the question mark （？）in the following series．

30，？，83，118，160， 210
Ans
X 1.60
$\times 2.62$
3.42
4.54

Q． 15 Study the given pattern carefully and select the number from among the given options that can replace the question mark（？）in it．

285432
56876581884 ？ 8
141312
Ans
$\times 1.9$
－ 2.11
$\times 3.10$
$\times 4.8$

Q． 16 Which two numbers need to be interchanged to make the following equation correct？
$\mathbf{1 1 9}+\mathbf{1 1 \times 5 - 1 5 3 \div 1 7 = 2 0 1}$
Ans
－ 1.119 and 153
X 2.17 and 5
$\times 3.11$ and 17
X 4.119 and 17
Q. 17 A cube is made by folding the given sheet along the lines. In the cube so formed, what would be the number on the face opposite to the one having 5?


Ans

1. 6
2. 1
3. 4
4. 2
Q. 18 Which order of letters will complete the following sequence?
__A_GGA_GGAN
Ans $\quad X$ 1.TGTG
X 2. SGSA
5. GNNG

X4.NGNG
Q. 19 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 3$.

$\times 4$.

Q. 20 In a certain code language, 'GLOVE' is coded as 148 . How will 'OBDURATE' be coded in that language?
Ans
$\times 1.602$
$\times 2.402$
ح. 320
$\times 4.502$
Q. 21 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 22 In a certain code language, 'Min Fin Dig' means 'Sohan is Engineer' and 'Sic Ric Min Dic Fin' means 'Profession of Engineer is tough'. Which of the following is the code for 'Sohan'?
Ans
X 1 . Dic
X 2 . Min
>3.Fin

- 4. Dig
Q. 23 Select the number from among the given options that can replace the question mark (?) in the following series.

115, 178, 241, 304, ?
Ans
$\times 1.370$
$\times 2.348$
$\times 3.337$
4. 367
Q. 24 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. 25 In the following Venn diagram, the triangle stands for 'fathers', the circle stands for 'engineers', the hexagon stands for 'tax-payers', and the rectangle stands for 'blood donors'. The given numbers represent the number of persons in that particular category.


How many tax-payers are also blood donors?
Ans

1. 63
2. 38
3. 61
4. 55

## Section: General Awareness

Q. 1 How many sodium atoms are there in one molecule of sodium peroxide?

Ans $\times 1$. One
2. Two

X 3. Four
X4. Three

## Q. 2 Which of the following is NOT a chemical coagulant used in water treatment?

Ans $\quad$ 1. Polyaluminium chloride (PAC)
X 2. Aluminium sulfate (Alum)
3. Aluminium chloride

- 4. Nitrogen dioxide
Q. 3 As per the theory of demographic transition, the post-transitional stage of demographic transition is characterised by $\qquad$ -.

Ans 1. low and nearly equal birth and death rates
2. falling birth rates and high death rates

3 3. high and nearly equal birth and death rates
X 4. falling death rates and high birth rates
Q. 4 'Sangken' is a festival of the $\qquad$ .
Ans $\quad \times 1$. Jains
2. Buddhists
$X$ 3. Sikhs
4. Christians
Q. 5 In which of the following cities were the first and second test cricket matches (2021) between India and England held?
Ans
$X$ 1. Mumbai
$X$ 2. Pune3. Chennai
4. Ahmedabad
Q. 6 According to World Health Organization (WHO), "Hygiene refers to the spread of diseases."
Ans $\quad X_{1}$. situations, fitness, prevent
$X$ 2. values, health, stop
3. conditions, physique, retard
4. conditions, health, prevent
Q. 7 Who among the following was honoured by the Abel Prize of 2021 in Mathematics ?

Ans $\quad \underset{1}{ }$. Karen Uhlenbeck
X 2. Qaboos
3. Laszlo Lovasz
4. Andrew Wiles
Q. 8 Which of the following words does NOT precede the word 'Republic' in the Preamble of the Constitution of India?
Ans $\quad X_{1}$. Sovereign
2. Democratic
3. Federal
4. Socialist
Q. 9 Which of the following is a type of plant disease?

Ans $\quad \times 1$. Botulism
2. Blight
3. Coccidiosis
4. Mastitis
Q. 10 Which of the following is a group of islands found in the tropical oceans consisting of coral reefs and a central depression?
Ans $\quad X_{1}$. Guyots
2. Atoll
3. Seamount
4. Lagoon
Q. 11 Right to Information Act government information.
Ans
X 1.2003

- 2.2005
$\times 3.2002$
$\times 4.2004$


## Q. 12 As per the Economic Survey of India 2021, SENSEX and NIFTY resulted in

 India's market-cap to GDP ratio crossing $\qquad$ for the first time since October 2010.Ans

1. $100 \%$

X 2.80\%
X 3.50\%
X4.75\%
Q. 13 Honoured with Padma Vibushan and Padma Bhushan, Kishori Amonkar was a renowned personality related to which of the following fields?
Ans $\quad \chi_{1}$. Science
$X$ 2. Economics
$X$ 3. Dance
4. Music
Q. 14 Which of the following is NOT abiotic?

Ans $\quad \times 1$. Rainfall
2. Soil
3. Wind
4. Plant
Q. 15 Which of the following is an example of 'Arthropod'?

Ans
$X$ 1. Blood sucking leech
X 2. Hookworm
3. Earthworm
4. Scorpion
Q. 16 The Economic Survey of 2020-21 mentions that India's fiscal policy should reflect $\ldots$ sentiment of 'a mind without fear'.
Ans $\times$ 1. Jawaharlal Nehru's

- 2. Gurudev Rabindranath Tagore's

X 3. Mahatma Gandhi's
X 4. Shyama Prasad Mukherjee's
Q. 17 Saccharomyces Cerevisiae is commonly used to make $\qquad$ -
Ans $\quad$ 1. yoghurt
X 2. carbonated beverages
3. cheese
4. bread
Q. 18 Which of the following was the first development bank in India?

Ans $\times 1$. National Housing Bank
2. Export Import Bank of India
3. Industrial Finance Corporation of India

X 4. Industrial Development Bank of India
Q. 19 Alladi Krishnaswami Ayyar was the chairman of the $\qquad$ of the Constituent Assembly of India.
Ans 1. Credential Committee
X 2. Union Powers Committee
X 3. Order of Business Committee
4. Fundamental Rights Sub-Committee

## Q. 20 Which of the following events occurred before 1919?

Ans $\quad \times$ 1. Gandhi-lrwin Pact
$X$ 2. Chauri Chaura Incident
$\chi$ 3. Lahore Session of Congress

- 4. Partition of Bengal
Q. 21 William Hawkins met Emperor Jahangir as a representative of the $\qquad$ East India Company.
Ans $\quad X$ 1. Portuguese
$X$ 2. Dutch
$X$ 3. French

4. English
Q. 22 Who among the following won the 2020 JCB Prize for Literature?

Ans $\quad \times 1$. Santhosh Echikkanam
2. S Hareesh
$X$ 3.KR Meera
X 4. Kureepuzha Sreekumar
Q. 23 Which of the following musical instruments is also known as a 'Mangal Vadya'?

Ans

1. Shehnai

X 2. Tabla
$X$ 3. Santoor
$\times$ 4. Damaru

## Q. 24 Which of the following states won the maximum number of medals at the Khelo India

 Youth Games 2020?Ans $X_{1}$. Punjab
2. Kerala
3. Maharashtra

X 4. Haryana
Q. 25 Which of the following sages of ancient India wrote the 'Mimamsa-sutras'?

Ans

1. Jaimini
2. Charaka
3. Badarayana
4. Panini

## Section : Quantitative Aptitude

Q. 1 If $x+y+z=7, x y+y z+z x=8$, then what is the value of $x^{3}+y^{3}+z^{3}-3 x y z$ ?

Ans

1. 200
2. 150
3. 125
4. 175
Q. 2 A sum of $₹ 18,000$ becomes $₹ 21,780$ after 2 years on compound interest compounded annually. What will be the compound interest (in ₹) on the same sum for the same period if the rate of interest increases by $5 \%$ ?

Ans 1. 1,845
2. 4,670
3. 5,805
4. 5,500
Q. 3 A invested $30 \%$ more than B. B invested $40 \%$ less than C, who invested $₹ 8,000$. The average of the total amount invested by all of them together (to the nearest ₹) is:

Ans

1. 6,347
2. 6,417
3. 6,215
4. 6,143
Q. 4 If $a^{3}+b^{3}=218$ and $\mathrm{a}+\mathrm{b}=2$, then the value of $\sqrt{1-a b}$ is:

Ans

1. 5
2. 3
3. 4
4. 6
Q. 5 From the body of a solid cube of edge 7 cm , a solid sphere is removed. The volume of the remaining solid was found to
be $163 \frac{1}{3} \mathrm{~cm}^{3}$. What is the diameter (in cm ) of the sphere? (Take $\pi=\frac{22}{7}$ )
Ans
5. 10
6. 7
7. 5
8. 8
Q. 6 A takes 3 hours more than B to walk ' $d$ ' $k m$. If A doubles his speed, then he can make it in 1 hour less than B. How much time (in hours) does A require to walk ' d ' km ?

Ans

1. 5
2. 9
3. 8
$\times 4.4$
Q. 7 The length of the shadow on the ground of a tall tree of height 30 m is $10 \sqrt{3} \mathrm{~m}$. What is the angle (in degrees) of elevation of the sun?

Ans 1. 60
2. 15
3. 30
4. 45
Q. 8 A shopkeeper offers his customers a discount of $10 \%$. On an item marked at a price of $₹ 400$, which was a little damaged, he offered additional discount of $10 \%$. At what price (in $₹$ ) is the item available to customers?

Ans

1. 340
2. 324
3. 320
4. 300
Q. 9 The profit earned by selling an article for ₹ 832 is equal to the loss incurred when the article is sold for ₹ 448 . What should be the selling price (in ₹) to make a profit of $10 \%$ ?

Ans

1. 750
2. 715
3. 640
4. 704
Q. 10 In the following figure, MN is a tangent to a circle with centre O at point A . If BC is a diameter and $\angle \mathrm{ABC}=42^{\circ}$, then find the measure of $\angle \mathrm{MAB}$.


Ans $\times 1.84^{\circ}$
2. $48^{\circ}$

X3. $42^{\circ}$
4. $45^{\circ}$
Q. 11 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.

Students studying humanities in 2019 and 2020 taken together is what percentage of the total number of students studying during the two years taken together? (correct to 2 decimal places)


Academic year 2019 Academic year 2020
Ans

1. $18.75 \%$
2. $19.91 \%$
3. $19.19 \%$
4. $18.52 \%$
Q. 12 Of the three numbers, second is one-third of first and is also three-fourth of the third number. If the average of three numbers is 112 , then what is the smallest number?
Ans
5. 63
6. 45
7. 84
8. 189
Q. 13 A man started off a business with a certain capital amount. In the first year, he earned $60 \%$ profit and donated $50 \%$ of the total capital (initial amount + profit). He followed the same procedure with the remaining capital after the second and the third year. If at the end of the three years, he is left with ₹ 15,360 , what was the initial amount (in ₹) with which the man started his business?
Ans
9. 20,000
10. 30,000
11. 25,000
12. 32,000
Q. 14 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.


What is the ratio of the total exports of cars of type A in 2016 and 2018 to the total exports of cars of type B in 2014 and 2017?
Ans

1. $10: 9$
2. $11: 10$
3. $25: 16$
4. $23: 20$
Q. 15 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 maximum change percentage in the number of cars as compared to the previous hour? (correct to 2 decimal places)


Ans

1. Decrease of $52.63 \%$
2. Decrease of $58.5 \%$
3. Increase of $55.56 \%$
4. Increase of $58.5 \%$
Q. 16 If $\mathrm{A}=60^{\circ}$, what is the value of:
$\frac{10 \sin \frac{A}{2}+8 \cos A}{7 \sin \frac{3 A}{2}-12 \cos A} ?$
Ans $\quad 1.10$
$\times 2.12$
5. 9
6. 7
Q. 17 If $3 \sin ^{2} \theta+4 \cos \theta-4=0,0^{\circ}<\theta<90^{\circ}$, then the value of $\left(\operatorname{cosec}^{2} \theta+\cot ^{2} \theta\right)$ is

Ans
ค. $\frac{5}{4}$
$X_{2 .} \frac{25}{2}$
$\times 3 . \frac{4}{3}$
X4. $\frac{17}{9}$
Q. 18 Three numbers are in the proportion of $3: 8: 15$ and their LCM is 8280 . What is their HCF?

Ans

1. 60
2. 69
$\times 3.75$
$\times 4.57$
Q. 19 A vegetable vendor supplies vegetables to a housing complex of 50 families. On a particular day, the break-up sale of vegetables is represented in the form of a pie chart as shown.

Study the pie chart carefully and answer the question that follows.


What is the ratio of the central angle corresponding to the sale of potatoes, tomatoes and beans together to the central angle corresponding to the combined sale of onions and others?

Ans

1. $13: 15$
2. $13: 11$
3. $11: 13$
4. $15: 13$
Q. 20 The value of
$\frac{\left[\frac{3}{8}-\left\{\frac{3}{8}-\left(\frac{5}{8}-\frac{3}{8}\right)\right\}\right] \text { of } 4.8-0.9}{4 \frac{1}{6} \div 2.5 \times 0.2 \div \frac{1}{5} \text { of } 50+\left(\frac{3}{4}-\frac{1}{8}\right)}$ is:
Ans
<1. $\frac{30}{79}$
5. $\frac{42}{79}$
6. $\frac{36}{79}$
7. $\frac{24}{79}$
Q. 21 In a $\triangle A B C, D, E$ and $F$ are the mid-points of side $B C, C A$ and $A B$ respectively. If $B C=14.4 \mathrm{~cm}$, $\mathrm{CA}=15.2 \mathrm{~cm}$ and $\mathrm{AB}=12.4 \mathrm{~cm}$, what is the perimeter (in cm ) of the $\triangle \mathrm{DEF}$ ?
Ans
8. 42
9. 28
10. 21
11. 35
Q. 2214 men can complete a work in 15 days. If 21 men are employed, then in how many days will they complete the same work?

Ans 1. 10
2. 14
3. 12
4. 15
Q. 23 PQ and RS are two parallel chords of a circle of length 14 cm and 48 cm , respectively, and lie on the same side of the centre $O$. If the distance between the chords is 17 cm , what is the radius (in cm ) of the circle?

Ans

1. 28
2. 24
3. 25
4. 20
Q. 24 Let $\triangle A B C \sim \triangle Q P R$ and (Area of $\triangle A B C$ ) : (Area of $\triangle P Q R)=121: 64$. If $Q P=14.4 \mathrm{~cm}, P R=12 \mathrm{~cm}$ and $A C=18 \mathrm{~cm}$, then what is the length of $A B$ ?

Ans $\quad 1.32 .4 \mathrm{~cm}$
2. 21.6 cm
3. 19.8 cm
4. 16.2 cm
Q. 25 If each of the two numbers $5^{16}$ and $5^{25}$ are divided by 6 , the remainders are $R_{1}$ and $R_{2}$, respectively. What is the value
of $\frac{R_{1}+R_{2}}{R_{2}}$ ?
Ans
$\times 1 \frac{1}{6}$
$\times 2 \frac{5}{6}$
$\times 3 \frac{1}{5}$

- $4 . \frac{6}{5}$


## Section : English Comprehension

Q. 1 Select the most appropriate ANTONYM of the given word.

## Altercation

Ans

1. Agreement

X 2. Argument
X 3. Quarrel
X 4. Controversy
Q. 2 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She performed / the task / at the best / of her ability.
Ans
Х 1. the task
X 2. of her ability
X 3. She performed
4. at the best

## Q. 3 Select the most appropriate synonym of the given word.

## Obstruct

Ans
X 1. Approve
2. Block

X 3. Match
4. Permit
Q. 4 Select the option that expresses the given sentence in indirect speech.
"What is Sonia saying?" said Rohit.
Ans
$X$ 1. Rohit asked what was Sonia saying.
2. Rohit asked what Sonia was saying.
3. Rohit asked that what was Sonia saying.
4. Rohit asked what is Sonia saying.
Q. 5 Select the option that can be used as a one-word substitute for the given group of words.

A fixed sum paid annually
Ans
$X$ 1. Bonus
2. Honorarium
3. Annuity

X 4. Alimony
Q. 6 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'.

Such was his performance that the audience gave a standing ovation.
Ans
$X 1$. So was
$X$ 2. Much was

- 3. No substitution required
$X 4$. Such as
Q. 7 Select the correct passive voice form of the given sentence.

The children are doing hard work.
Ans

1. Hard work is being done by the children.
2. Hard work is done by the children.
3. Hard work had been done by the children.
4. Hard work was being done by the children.
Q. 8 Select the option that gives the most appropriate meaning of the underlined idiom.

The new electrician is a green horn, but will learn fast.
Ans $\quad{ }_{1}$. Efficient
$\times$ 2. Proficient
$X$ 3. Professional
4. Inexperienced
Q. 9 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Several minutes passed / before she returned / carry milk / for the dog.
Ans

1. carry milk
2. Several minutes passed
3. for the dog
4. before she returned
Q. 10 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 has been / raining intermittently/since two days.
Ans $\quad \times$ 1. raining intermittently
$\times$ 2. It has been
X 3. No error
4. since two days

## Q. 11 Select the most appropriate meaning of the given idiom.

## Sticky fingers

Ans

1. An inclination to steal

X 2. A habit of licking fingers
$X$ 3. A tendency to interfere
X 4. A tendency to forget
Q. 12 The following sentence has been divided into parts. One of them contains an error.

Select the part that contains the error from the given options.
The Taj Mahal / is one of / the most beautiful / creation in the world.
Ans $\quad X$ 1. The Taj Mahal
$X$ 2. the most beautiful
3. creation in the world
$X 4$. is one of
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.

A person who travels on foot.
Ans

1. Pedestrian
$X$ 2. Rover
$\chi$ 3. Dweller
X 4. Flyer
Q. 14 Select the most appropriate ANTONYM of the given word.

Spacious
Ans

1. Cramped
2. Extensive
$X$ 3. Boundless
X 4. Roomy
Q. 15 Select the most appropriate option to fill in the blank.

I am expected to follow all your instructions, $\qquad$ ?

Ans $\times 1$. isn't it
2. am I
3. aren't I
4. is it

## Q. 16 Select the INCORRECTLY spelt word.

Ans $\quad$ 1. Ensure
X 2. Adjourn
X 3. Purity
4. Exhast
Q.17 Given below are four sentences which are jumbled. Pick the option that gives their correct order.
A. It also wants to know how many students have been provided nutritious food and improved their overall health.
B. The Midday Meal Scheme, that aims to provide free food to children, is in focus again.
C. About 1.3 million government schools are covered under this welfare program of children.
D. The Government now wants to take stock of the implementation of the program,

Ans

1. BCDA

X 2. ADBC
X 3.BACD
X4. ADCB
Q. 18 Select the option that expresses the given sentence in passive voice.

Arrest the thief.
Ans

1. Let the thief is arrested.

X 2. The thief is arrested.
3. The thief has been arrested.

- 4. Let the thief be arrested.


## Q. 19 Select the most appropriate synonym of the given word.

## Commute

Ans $\quad X_{1}$. Consume
2. Convert
3. Condense
4. Conserve
Q. 20 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select ' $N o$ substitution required'.

In the olden days, many people use to think that the earth was flat.
Ans

1. people used to think
2. people were used to think
3. people were thinking
4. No substitution required

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

There is so much (1)___ and confusion in life today because the goal of human beings is not clear. Each person (2) $\qquad$ to fulfil his desires and dreams without (3) $\qquad$ the interest of the other. When we have a (4) $\qquad$ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) $\qquad$ in our life.

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

Ans
$X$ 1. certainty
X 2. positivity
2. uncertainty
4. reliability

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

There is so much (1) $\qquad$ and confusion in life today because the goal of human beings is not clear. Each person (2) $\qquad$ s and dreams without (3) interest of the other. When we have a (4) motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) $\qquad$ in our life.

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

Ans $\quad$ 1. has want
X 2. want
3. have want
4. wants

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

There is so much (1) $\qquad$ and confusion in life today because the goal of human beings is not clear. Each person (2) $\qquad$ to fulfil his desires and dreams without (3) $\qquad$ the interest of the other. When we have a (4) $\qquad$ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) $\qquad$ in our life.

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

Ans 1.considering
2. disregarding

X 3. excluding
4. describing

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

There is so much (1) $\qquad$ and confusion in life today because the goal of human beings is not clear. Each person (2) $\qquad$ to fulfil his desires and dreams without (3) $\qquad$ the interest of the other. When we have a (4) $\qquad$ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) $\qquad$ in our life.

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

Ans
X 1. selfless
2. selfish

X 3. humane
X4. noble

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

There is so much (1) $\qquad$ and confusion in life today because the goal of human beings is not clear. Each person (2) to fulfil his desires and dreams without (3) the
interest of the other. When we have a (4) $\qquad$ motive, we lose the sense of
objective of attaining happiness. Therefore, there is lot of (5) $\qquad$ in our life.

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

Ans

- 1. strife

X 2. concord
X 3. peace
X 4. harmony

## Combined Graduate Level Examination 2021 Tier - I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 19/04/2022 |
| Exam Time | 12:30 PM $-1: 30$ PM |
| Subject | CGLE 2021 Tier I |

## Section : General Intelligence and Reasoning

Q. 1 Shweta starts walking from her office and walks 150 m towards the south, then she turns right and walks 80 m , and then she turns left and walks 60 m . She finally turns left and walks 280 m to reach a bank. What is the shortest distance between her office and the bank?

Ans $\quad$ 1. 280 m
$\checkmark 2$.
3. 410 m
4. 370 m

Select the option that represents the correct order of the given words as they wouldappear in an English dictionary.

1. Speaking
2. Standardize
3. Southern
4. Stampede
5. Spacious
6. Sovereignty

Ans $\quad$ 1.3,4,6,5,1,2

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

X $3.3,6,2,4,1,5$
>4.3,2,6,1,4,5
Q. 3 Select the correct mirror image of the given combination when the mirror is placed at ' PQ ' as shown.

Ewbaz4 $\left.\right|_{Q} ^{P}$
Ans 1. $\Delta \leq G \mathrm{C} W$

- tsedwa
${ }^{3} \Delta 5 \mathrm{sdwE}$

Q. 4 If the father of Swati is the maternal grandfather of Divya, who is the daughter of Manya, then how is Manya's husband's father related to Divya?
Ans
X 1. Maternal uncle

2. Paternal grandfather
$X$ 3. Father
X 4. Paternal uncle
Q. 5 If '@' means 'addition', '\%' means 'multiplication', '\$' means 'division' and '\#' means 'subtraction', then find the value of the following expression.

126 \$ 7 \% 3 @ 19 \# 21
Ans

- 1.52
$\times 2.18$
$\times 3.23$
$\times 4.4$
Q. 6 In a certain code language, 'GALLERY' is written as '1422424103650'. How will 'NOSTALGIA' be written in that language?
Ans
X 1. 2830204222414184
X 2. 2832384222416182
X 3. 2830384022614362

4. 2830384022414182
Q. 7 Select the number from among the given options that can replace the question mark (?) in the following series.

361, 323, 285, 247, ?
Ans
X 1.215
X 2.232
X 3.227
4. 209
Q. 8 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$\mathbf{P Q} \mathbf{Q}_{-} \mathbf{Q P P R R} \mathbf{P} \mathbf{P Q R Q} \mathbf{P} \mathbf{P} \mathbf{R} \mathbf{R} \mathbf{Q}_{-}$
Ans
X1.QRPP
2. R Q P P

Х3.PQRP
(4.PPRQ
Q. 9 Raghav, Manpreet, Sunaina, Prakrit, Vedika and Arwa are sitting around a circular table facing the centre. Raghav is second to the left of Prakrit. Manpreet is to the immediate left of Sunaina. Arwa is second to the right of Vedika. There are an equal number of persons between Raghav and Manpreet from both the ends. Who is sitting third to the left of Sunaina?

Ans
X1.Raghav
X 2. Vedika

- 3. Arwa

X 4. Prakrit
Q. 10 In a certain code language, 'FIXED' is written as 'XIFED', and 'MOUSE' is written as 'USOME'. How will 'GAMBIT' be written in that language?

Ans
X 1. TGMIBA
2. TMGIBA
3. TMIGBA
4. TIMGAB
Q. 11 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 12 In the following Venn diagram, the pentagon stands for 'clerks', the triangle stands for 'coffee-lovers', the square stands for 'car-owners' and the circle stands for 'social workers'. The given letters represent the persons in that particular category.


Which of the following categories of persons is represented by the letter ' $D$ '?
Ans

1. Coffee-lovers who are either car-owners or social workers
2. Coffee-lovers who are car-owners and social workers also
3. Car-owners who are coffee-lovers but not social workers
$\times 4$.
Coffee-lovers who are car-owners, social workers and clerks also
Q. 13 Select the correct combination of mathematical signs that can sequentially replace the * signs to balance the following equation.

22 * 66 * 33 * 11 * 44 * 0
Ans

- $1 .+, \div, \times,-,=$

人2. $\times, \div,+,-,=$
$\chi_{3 .+, \div,-, x,}=$
( $4 . \div,+, \times,-,=$
Q. 14 Select the option in which the two numbers are related in the same way as are the two numbers of the following number-pair.

25 : 343
Ans 1.24:216
X 2. 29:121
$\times 3.34: 510$
$\times 4.30: 729$
Q. 15 Six letters, A, P, K, U, W and N, are written on different faces of a dice. Two positions of this dice are shown. Select the letter that will be on the face opposite to the one having N.

Ans

1. W
2. P
3. U
4. A
Q. 16 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 2$.

$\checkmark 3$.

$\times 4$.

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

PGF, QJK, RMP, SPU, ?
Ans $\quad X_{1 . R T Z}$
$X$ 2. USX

- 3.TSZ

X 4.STY
Q. 18 A total amount of $₹ 2,95,000$ is to be distributed between Vineet, Prateek and Mayank in such a way that Vineet gets half of the amount that Mayank gets and Prateek gets ₹ 25,000 less than Vineet. How much amount will Vineet get?

Ans

1. ₹ 80,000

X 2. ₹55,000
X 3. ₹70,000
X4. ₹85,000
Q. 19 Select the number from among the given options that can replace the question mark (?) in the following series.
$12,38,116,350$, ?
Ans 1.1052
X 2.986
$\times 3.916$
$\times 4.1012$
Q. 20 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 schools are colleges.
All colleges are universities.
Conclusions:
I. All universities are schools.
II. Some universities are colleges.

Ans
X 1. Either conclusion I or II
follows.
X 2. Only conclusion I follows.
3. Only conclusion II follows.
4. Both the conclusions follow.
Q. 21 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
X 1. LQJ
2. HLP
3. SXC
4. FKP
Q. 22 In a certain code, 'jig fig vic' means 'I love India' and 're dig fig lic vic' means ‘I like culture of India'. Which of the following is the code for 'love'?
Ans
X1. vic
X 2. lic
3. fig
4. jig
Q. 23 Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.

85556
9128268201127 ? 7
13179
Ans
X 1.20

- 2.24
$\times 3.30$
$\times 4.18$
Q. 24 Select the option that is related to the third term in the same way as the second term is related to the first term.

QUICKER : TGMEKWS :: REPORTS : ?
Ans

1. UVTQRGT

X 2. VUTQRGS
X 3. USVQRGT
4. UVTRRHT
Q. 25 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


Section: General Awareness
Q. 1 Which of the following is a mountain between India and Nepal?

Ans $\quad$ 1. Makalu
X 2. Manaslu
X 3. Dhaulagiri

- 4. Kanchenjunga
Q. 2 Who among the following Indian musicians was a part of a band named 'Planet Drum' along with Mickey Hart, Sikiru Adepoju, and Giovanni Hidalgo, whose first album received the 1992 Grammy Award for Best World Music Album, which was the first Grammy in this category?
Ans
X 1. Bhimsen Joshi

2. Zakir Hussain

X 3. Ravi Shankar
X 4. Hariprasad Chaurasia
Q. 3 According to the Union Budget 2020-2021, the bank credit growth as of January 1, 2021, stood at $\qquad$ \%
Ans
X 1.5 .9

- 2.6 .7
$\times 3.5 .2$
X4.7.1
Q. 4 Which of the following is a characteristic of amorphous solids?

Ans $\times 1$. A definite and characteristic enthalpy of fusion
X 2. Melting at a sharp and characteristic temperature
Х 3. A definite characteristic geometrical shape
4. Gradual softening over a range of temperatures
Q. 5 Which of the following techniques can be used for reducing the total dissolved solids (TDS) in water?
(1) Ion Exchange
(2) Distillation
(3) Carding

Ans $\times 1$. Only 1
$\times 2$. Only 3
3. Both 1 and 2

X4. Both 2 and 3
Q. 6 The Constituent Assembly was recognised by Section $\qquad$ of the Indian Independence Act, 1947.
Ans
X 1.6(2)
X 2.10(1)
X $3.12(2)$

- $4.8(1)$
Q. 7 In India, the Protection of Children from Sexual Offences (POCSO) Act, is a comprehensive law to provide for the protection of children from the offences of sexual assault, sexual harassment and pornography, while safeguarding the interests of the child.

Ans

- 1. 2012
$\times 2.2006$
X

3. 2010
4. 2008
Q. 8 Lalita is a form of folk music from $\qquad$ .
Ans $\times 1$. Madhya Pradesh
(2. Rajasthan
5. Maharashtra
6. Gujarat
Q. 9 The 74th Amendment Act of 1992 added a new Part $\qquad$ to the Constitution of India.

Ans $\quad$ 1. X

- 2. IX-A

X 3.IX
X4.VIII

## Q. 10 With which of the following organisations was Lala Har Dayal associated?

Ans

1. Ghadar Party
2. Indian Independence League

X 3. Indian Home Rule Society
4. Swaraj Party
Q. 11 In which Indian state is the 'Fatorpa Zatra' celebrated?

Ans $\quad$ 1. Madhya Pradesh
2. Goa
3. Kerala
4. Himachal Pradesh

Question ID : 65497842591
Status : Not Answered
Chosen Option : --
Q. 12 As per the Economic Survey 2021, in which of the following states did the proportion of households that had health insurance decrease by 12\% from 2015-16 to 2019-20?
Ans

1. West Bengal
2. Assam
3. Bihar
4. Sikkim
Q. 13 Capsaicinoids, carotenoids, phenolics, and vitamins are dominant chemicals in which of the following foods?
Ans
X1. Carrot
5. Garlic
6. Radish
7. Chilli
Q. 14 What is the atomic number of nitrogen?

Ans $\times 1.6$
X 2.8

- 3.7

X4.5
Q. 15 The Hundru Fall lies along the course of which of the following rivers?

Ans $\times 1$. Damodar
2. Sone
3. Mahanadi
4. Subarnarekha
Q. 16 Who among the following was nominated for the Saraswati Samman, 2020?

Ans $\times 1$. Manoj Das
2. Sharankumar Limbale
3. Pratibha Ray
4. Manishankar Mukherjee
Q. 17 After the death of Shri Guru Gobind Singh, the Sikhs revolted against the $\qquad$ under the leadership of Banda Bahadur.
Ans
X 1 . Gurkhas
2. Mughals

X 3. British
X 4. Marathas
Q. 18 Who among the following is the author of the book 'The Coalition Years'?

Ans
X 1. Giani Zail Singh
X 2. APJ Abdul Kalam
3. Pranab Mukherjee

X 4. KR Narayanan
Q. 19 Who among the following won the All England Open Badminton Championship 2020 in the Men's Singles category?
Ans 1. Viktor Axelsen
X 2. Kento Momota
3. Anders Antonsen
4. Chou Tien-chen
Q. 20 In which of the following years was the Mont-Ford Reforms report presented by the British colonial government in India?
Ans
X 1.1907
2. 1918
$\times 3.1934$
X 4.1942
Q. 21 Which of the following is the shallowest part of the ocean showing an average gradient of $1^{\circ}$ or even less?
Ans $\times 1$. Oceanic deeps
2. Continental shelf

3 . ontinental slope
4. Deep sea plain
Q. 22 Who among the following created a national record in the javelin throw event at the third Indian Grand Prix meet in March 2021?

Ans
X 1. Vipin Kasana
2. Devendra Jhajharia

X
3. Shivpal Singh
4. Neeraj Chopra
Q. 23 Which of the following is a foreign bank operating in India as of 31st May 2021?

Ans
X 1. Axis Bank Ltd
X 2. HDFC Bank Ltd
3. BNP Paribas

X 4. ICICI Bank Ltd

## Q. 24 Which day has been declared by the World Health Organization as Hand Hygiene Day?

Ans

1. 5th May

X 2. 18th August
3.21st July
4. 14th June
Q. 25 Which of the following is a disease caused by drinking contaminated water?

Ans $\quad \times 1$. Scurvy
2. Cholera
$\times$ 3. Rickets
X 4.Anaemia

## Section : Quantitative Aptitude

Q. 1 The circumcentre of an equilateral triangle is at a distance of 3.2 cm from the base of the triangle. What is the length (in $\mathrm{cm})$ of each of its altitudes?

Ans 1. 9.6
2. 7.2
3. 6.4
4. 12.8
Q. 2 In $\triangle \mathrm{ABC}, \angle \mathrm{A}=66^{\circ}, \mathrm{BD} \perp \mathrm{AC}$ and $\mathrm{CE} \perp \mathrm{AB}$. BD and EC intersect at P . The bisectors $\angle \mathrm{PBC}$ and $\angle \mathrm{PCB}$ meet at Q . What is the measure of $\angle B Q C$ ?

Ans

1. $127^{\circ}$
2. $132^{\circ}$
3. $143^{\circ}$
4. $147^{\circ}$
Q. 3 A circle is inscribed in $\triangle A B C$, touching $A B, B C$ and $A C$ at the points $P, Q$ and $R$, respectively. If $A B-B C=4 \mathrm{~cm}, A B$
$-\mathrm{AC}=2 \mathrm{~cm}$ and the perimeter of $\triangle A B C=32 \mathrm{~cm}$, then $\frac{B C}{2}($ in cm$)=$ ?
Ans
$\times 1 \cdot \frac{20}{3}$
-2. $\frac{13}{3}$
$\times 3 \frac{11}{3}$
$\times 4 . \frac{10}{3}$
Q. $4 A$ is $120 \%$ of $B$ and $B$ is $65 \%$ of $C$. If the sum of $A, B$ and $C$ is 121.5 , then the value of $C-2 B+A$ is:

Ans 1. 14
2. 35
3. 24
4. 39
Q. 5 An article is sold at a profit of $13 \frac{1}{4} \%$. Had it been sold for $₹ 76.70$ more, the profit would have been $16 \frac{1}{5} \% .50 \%$ of the cost price of the article (in ₹) is:
Ans 1. 1,250
2. 2,500
3. 1,300
4. 1,500
Q. 6 If $a^{2}+b^{2}+49 c^{2}+18=2(b+28 c-a)$, then the value of $(2 a-b+7 c)$ is:

Ans

1. 5
2. -3
3. -4
4. 1
Q. 7 If $x^{2}-5 x-1=0$, what is the value of

$$
\frac{x^{6}-x^{4}+x^{2}-1}{x^{3}} ?
$$

Ans

1. 145
2. 140
3. 130
4. 135
Q. 8 Chords AB and CD of a circle intersect externally at P . If $\mathrm{AB}=7 \mathrm{~cm}, \mathrm{CD}=1 \mathrm{~cm}$ and $\mathrm{PD}=5 \mathrm{~cm}$, then $50 \%$ of the length of PA (in cm) is:

Ans

1. 5
2. 10
3. 8
4. 3
Q. 9 Find a single discount percentage equivalent to successive discounts of $10 \%, 20 \%$ and $25 \%$.

Ans

1. $55 \%$
2. $46 \%$
3. $20 \%$
4. $18.3 \%$
Q. 10 What is the LCM of $3.6,1.8$ and 0.144 ?

Ans

1. 3.6
2. 36
3. 3600
4. 360
Q. 11 A car covers a distance of 90 km in 50 min . What is its speed (in $\mathrm{m} / \mathrm{s}$ )?

Ans

1. 60
2. 90
3. 108
4. 30
Q. 12 The compound interest on a certain sum of money at $21 \%$ p.a. for 2 years is $₹ 11,138.40$ (interest compounded yearly).

The total amount received (in ₹) after 2 years is:
Ans

1. $31,538.40$
2. $24,000.50$
3. $35,138.40$
4. $28,315.40$
Q. 13 A 20 m long ladder rests against a wall so that the angle between the ladder and the wall is $30^{\circ}$. How far (in m ) is the base of the ladder from the wall?
Ans
5. $10 \sqrt{3}$
6. $20 \sqrt{3}$
7. 20
8. 10
Q. 14 A and B had a joint business in which A invested ₹ 60,000 in the business for one year. After 3 months B invested $₹ 80,000$. At the beginning of the second year, $A$ invested $₹ 30,000$ more and $B$ withdrew $₹ 5,000$. At the end of two years, profit earned by A is $₹ 35,880$. What is the profit (in ₹) earned by B, if they distributed half of the total profit equally and rest in the capital ratio?

Ans

1. 69,920
2. 38,060
3. 34,040
4. 58,940
Q. 15 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.


The total exports of cars of type B from 2015 to 2018 is what percentage more than the total exports of cars of type A from 2015 to 2018 (correct to one decimal place)?

Ans

1. $17.2 \%$
2. $15.5 \%$
3. $14.9 \%$
4. $16.7 \%$
Q. 16 Two similar jugs have their heights of 8 cm and 12 cm , respectively. If the capacity of the smaller jug is $80 \mathrm{~cm}^{3}$, what is
the capacity of the bigger jug (in $\mathrm{cm}^{3}$ )?
Ans
5. 120
6. 192
7. 216
8. 270
Q. 17 The average of three numbers is 15 . The average of the second and the third number is 12.5 . What is the first number?

Ans

1. 18
2. 21
3. 24
4. 20
Q. 18 If $\cos B=\frac{5}{7}$, what is the value of $\operatorname{cosec} B+\cot B$ ? Given that $0<B<\frac{\pi}{2}$

Ans
X $1 . \frac{5}{\sqrt{6}}$
X2. $\frac{\sqrt{6}}{12}$
3. $\frac{7}{\sqrt{6}}$
4. $\sqrt{6}$
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, respectively, in academic years 2019 and 2020.

What is the ratio of the number of students studying science in the year 2019 to that in the year 2020?


Academic Year 2019
Academic Year 2020
Ans 1. $18: 19$
2. $20: 21$
3. $15: 19$
4. $14: 15$
Q. 20 If $\cos 53^{\circ}=\frac{x}{y}$, then $\sec 53^{\circ}+\cot 37^{\circ}$ is equal to:

Ans
$\times$ 1. $\frac{x+\sqrt{y^{2}-x^{2}}}{y}$
×2. $\frac{x+\sqrt{y^{2}-x^{2}}}{x}$
2. $\frac{y+\sqrt{y^{2}-x^{2}}}{x}$
$x$
人4. $\frac{y+\sqrt{y^{2}-x^{2}}}{y}$
Q. 21 Study the given histogram and answer the question that follows.

The histogram represents the percentage of marks obtained by a number of students of a school in the class X Board Examination in 2018. The total number of students $=250$.


The number of students who have obtained less than $50 \%$ marks is approximately what percentage less than the number of students who have obtained $90 \%$ marks and above?
Ans

1. $75 \%$
2. $60 \%$
3. $80 \%$
4. $40 \%$
Q. 22

The given pie charts show the number of start-ups in various industries since 2010 and the number of successful start-ups in those industries.
Study the charts and answer the question that follows.
Start-ups in various industries started since 2010


Successful start-ups in various industries


What should be the increase in the number (to the nearest integer) of successful start-ups in the industry of Health \& Sports, so that its success percentage is the same as that of Education?

Ans

1. 220
2. 155
3. 187
4. 127

## Q. 23 If 8 A 5146 B is divisible by 88 , then what is the value of $A^{B}$ ?

Ans

1. 27
2. 64
3. 81
4. 12
Q. $24 \mathrm{X}, \mathrm{Y}$ and Z can complete a piece of work in 46 days, 92 days and 23 days, respectively. X started the work. Y joined him after 7 days. If Z joined them after 8 days from the beginning, then for how many days did Y work?
Ans
X $1.12 \frac{5}{7}$
5. $11 \frac{5}{7}$
6. $10 \frac{5}{7}$
7. $9 \frac{5}{7}$
Q. 25 What is the simplified value of the following?
$\frac{9 \div \frac{3}{7} \text { of }(9+6 \times \overline{4-2})+\left[\frac{1}{5} \div \frac{7}{25}-\left\{\frac{5}{8}+\frac{6}{16}\right\}\right]}{24 \div \overline{16-10}+36 \div(5+20 \div 4-1)}$
Ans
$\times 1 \frac{40}{7}$
8. $\frac{5}{56}$

X 3. $\frac{7}{40}$
$\times 4 . \frac{51}{56}$

## Section : English Comprehension

Q. 1 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.

This park is / the largest bird sanctuary / in the State.
Ans $\quad$ 1. the largest bird sanctuary
2. This park is
3. No error

X 4. in the State

## Q. 2 Select the most appropriate synonym of the given word.

## Monotonous

Ans 1. Boring
X 2. Compulsory
$X$ 3. Eventful
4. Momentous
Q. 3 Select the most appropriate meaning of the given idiom.

To hold water
Ans

1. To be valid and reasonable
$X$ 2. To be unsteady and unsure
$X$ 3. To be large and deep
X 4 . To be sad and depressed
s
Q. 4 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I asked my friend / where had he / learnt to dance / so well.
Ans

1. where had he
2. learnt to dance
3. I asked my friend
4. so well
Q. 5 Select the correct passive voice form of the given sentence.

The Chief Minister inaugurated the new hospital.
Ans

1. I will be assigning a new project to my manager.
2. My manager is assigning me a new project.
3. My manager has assigned me a new project.
4. I am being assigned a new project by my manager.
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

A style of cooking food, characteristic of a particular country or region
Ans
$X$ 1. Creche
$X$ 2. Antique
X 3. Menu
4. Cuisine
Q. 7 Select the most appropriate meaning of the given idiom.

Play with fire
Ans $\quad X_{1}$. To be courageous
$\times$ 2. To spread knowledge

- 3. To do something dangerous
$X 4$. To fight an opponent
Q. 8 Select the most appropriate synonym of the given word.

Abandon
Ans
$X$ 1. Possess
$X$ 2. Retain
X 3. Rescue
4. Quit
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.

Shamim have not / attended school / for four days now.
Ans
$X$ 1. attended school
2. for four days now
3. Shamim have not
4. No error
Q. 10 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The dress may pleasantly be delivered to us at the earliest.
Ans $\quad$ 1. No substitution required
2. may kindly

X 3. might kindly
4. must pleasantly
Q. 11 Select the option that can be used as a one-word substitute for the given group of words.

Unable to express feelings clearly
Ans

1. Inarticulate
2. Affluent

X 3. Eloquent
4. Verbose
Q. 12 Select the most appropriate ANTONYM of the given word.

## Constrict

Ans $\times 1$. Smite
2. Choke3. Stretch
4. Cramp
Q. 13 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Since setting_up, the charity has raised a million dollars.
Ans

1. Since being set up
$\chi$ 2. From setting up
$\times 3$. Since setting
X 4. No improvement required
Q. 14 Given below are four jumbled sentences. Select the option that gives their correct order.
A. For example, the sound of footsteps followed by the slam of a door are like phrases which convey some information.
B. In films, sound effects play the part of words.
C. We then know who is performing an action and why, and a clear picture is formed in our mind's eye.
D. Once the sounds are prefaced or followed by a dialogue, the sentence is complete.

Ans
$X_{1 .}$ DCBA
$\times 2$ 2.CBDA
X 3.BCDA
4. BADC
Q. 15 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I was angry / on myself / for making / such a silly mistake.
Ans $\quad \times$ 1. such a silly mistake
X 2. for making
3. on myself

X4. I was angry
Q. 16 Select the most appropriate option to fill in the blank.
$\qquad$ or not you allow me, I am going to the fair.

Ans

1. Whether

X 2. Unless
X 3. If
X 4. Until
Q. 17 Select the option that expresses the given sentence in passive voice.

Can you carry my bag upstairs?
Ans $\quad$ 1. Was my bag carried upstairs by you?
X 2. Could your bag be carried upstairs by me?
3. Can my bag be carried upstairs by you?
4. Can your bag be carried upstairs by me?

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

Taut
Ans $\quad{ }_{1}$. Tight
2. Solid
$\times$ 3. Strong
4. Slack

## Q. 19 Select the option that expresses the given sentence in direct speech.

She asked me what my favourite cuisine was.
Ans

1. She said to me, "What is your favourite cuisine?"
2. She said to me, "What my favourite cuisine is?"
3. She said to me, "What is my favourite cuisine?"
4. She said to me, "What your favourite cuisine was?"
Q. 20 Select the INCORRECTLY spelt word.

Ans

1. Disturbence
$X$ 2. Genius
X 3. Opportunity
$\times 4$. Conscious

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Pollution is destroying nature. The smoke that is (1)____from the chimneys of the factories, and from vehicles is the mixture of poisonous gases. Due to environmental pollution, there is (2)__ in nature, so, many birds, animals, and plants are on the verge of (3) $\qquad$ day by day. The only way to (4) $\qquad$ environmental pollution is to plant many trees. By planting trees, we can get rid of many harmful poisonous gases. It is the responsibility of everyone to (5) $\qquad$ and protect our environment.

SubQuestion No: 21
Q. 21 Select the most appropriate option for blank 1.

Ans $\quad X_{1}$.generated
$\times$ 2. absorbed
$X$ 3. created
4. emitted

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Pollution is destroying nature. The smoke that is (1) $\qquad$ from the chimneys of the factories, and from vehicles is the mixture of poisonous gases. Due to environmental pollution, there is (2) $\qquad$ in nature, so, many birds, animals, and plants are on the verge of (3) ____ day by day. The only way to (4)____ environmental pollution is to plant many trees. By planting trees, we can get rid of many harmful poisonous gases. It is the responsibility of everyone to (5) $\qquad$ and protect our environment.

SubQuestion No : 22
Q. 22 Select the most appropriate option for blank 2.

Ans 1.an imbalance
$X$ 2. a difference
$X$ 3. an inequality
X 4. a balance

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Pollution is destroying nature. The smoke that is (1) $\qquad$ from the chimneys of the factories, and from vehicles is the mixture of poisonous gases. Due to environmental pollution, there is (2) $\qquad$ in nature, so, many birds, animals, and plants are on the verge of (3) ___ day by day. The only way to (4)___ environmental pollution is to plant many trees. By planting trees, we can get rid of many harmful poisonous gases. It is the responsibility of everyone to (5) $\qquad$ and protect our environment.

SubQuestion No: 23
Q. 23 Select the most appropriate option for blank 3.

Ans $\quad X_{1}$. survival
$X$ 2. distinction
X 3. appearance

- 4. extinction


## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Pollution is destroying nature. The smoke that is (1) $\qquad$ from the chimneys of the factories, and from vehicles is the mixture of poisonous gases. Due to environmental pollution, there is (2) $\qquad$ in nature, so, many birds, animals, and plants are on the verge of (3) ____ day by day. The only way to (4)____ environmental pollution is to plant many trees. By planting trees, we can get rid of many harmful poisonous gases. It is the responsibility of everyone to (5) $\qquad$ and protect our environment.

SubQuestion No : 24
Q. 24 Select the most appropriate option for blank 4.

Ans 1. eradicate
$X$ 2. sustain
$X$ 3. radiate
X 4. introduce

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Pollution is destroying nature. The smoke that is (1) $\qquad$ from the chimneys of the factories, and from vehicles is the mixture of poisonous gases. Due to environmental pollution, there is (2) $\qquad$ in nature, so, many birds, animals, and plants are on the verge of (3) ___ day by day. The only way to (4)___ environmental pollution is to plant many trees. By planting trees, we can get rid of many harmful poisonous gases. It is the responsibility of everyone to (5) $\qquad$ and protect our environment.

SubQuestion No: 25
Q. 25 Select the most appropriate option for blank 5.

Ans $\quad X_{1 \text {. ruin }}$
2. preserve

X 3. destroy
$X$ 4. neglect

## Combined Graduate Level Examination 2021 Tier - I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 19/04/2022 |
| Exam Time | 4:00 PM $-5: 00$ PM |
| Subject | CGLE 2021 Tier I |

## Section : General Intelligence and Reasoning

Q. 1 Three years ago, the difference between the age of Ravish and the age of Kailash was 18 years. Three years from today, Ravish will be three times as old as Kailash. What is the present age of Ravish (in years)?
Ans

- 1.24
$\times 2.21$
$\times 3.27$
$\times 4.18$

Question ID : 65497841973
Status: Answered
Q. 2 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

1421165
1319 ?
101799
Ans
$\times 1.156$

- 2.140
$\times 3.120$
$\times 4.175$
Q. 3 Six numbers, $5,10,15,20,25$ and 30 , are written on different faces of a dice. Two positions of this dice are shown. Select the number that will be on the face opposite to the face having the number ' 15 '.

| 25 |  |
| :---: | :---: |
| 10 | 30 | 20

$15 \quad 20$

Ans

1. 10
2. 30
3. 20
4. 5
Q. 4 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

BEC, CID, FOG, KUL, ?
Ans $\times 1$.BAY
2. RAS

X 3. QOR
(4.RAR
Q. 5 Niraj is the father of Rinku. Jiya and Tiya are the daughters of Ruby, who is the only sister of Rinku. Vishnu is the son of Rinku and Gita. How is Niraj related to Tiya?
Ans

- 1

1. Maternal grandfather

X 2. Paternal uncle
X 3. Paternal grandfather
X 4. Maternal uncle
Q. 6 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\checkmark 1$.

$\times 2$.

$\times 3$.

$\times 4$.

Q. 7 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.

LGS : PLY :: MKB : ?
Ans

1. QPH
$\times 2$ QOF
X 3.RQG
$\times 4 . \mathrm{PQG}$
Q. 8 Select the correct mirror image of the given figure when the mirror is placed at ' $A B$ ' as shown.


Ans

Q. 9 In a certain code language, 'she needs some medicines' is written as '1542', 'take some water' is written as ' 849 ', 'he needs rest' is written as ' 713 ', and 'she is water' is written as '269'. How will 'take medicines' be written in that language?

Ans
$\times 1.45$
< 2.92
3. 85

X 4.81
Q. 10 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 rabbits are cows.
Some rabbits are cats.
Conclusions:
I. All cats are rabbits.
II. Some cows are rabbits.

Ans $\times 1$. Only conclusion I follows.
$X$ 2. Both the conclusions follow.
3. Only conclusion II follows.

X 4. Either conclusion I or II follows.
Q. 11 The sequence of folding a piece of paper (figures $i$ and ii) and the manner in which the folded paper has been cut (figure iii) is shown in the following figures. Select the option that would most closely resemble the unfolded form of figure
(iii).

(i)

(ii)

(iii)

Ans

$\times 2$.


- 3. 


$\times 4$.

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

3824 : 4935 : : 5716 : ?
Ans
$\times 1.6782$

- 2.6827

X 3.6087
X 4.6287
Q. 13 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Recording
2. Rehearsal
3. Viewers
4. Script
5. Video Editing

Ans $\times 1.4,1,2,3,5$

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

X 3.2,4, 1,5, 3
>4.4,5,2,1,3
Q. 14 Select the number from among the given options that can replace the question mark (?) in the following series.

9, 38, 154, 618, ?
Ans
X 1. 928
2. 2474

X 3.1268
(4.735
Q. 15 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

LJV, NMR, PPN, RSJ, ?
Ans $\times 1 . \mathrm{SUG}$
2. SWK
3.TVN
4. TVF
Q. 16 Which two signs need to be interchanged to make the following equation correct?
$45 \div 15 \times 5+15-11=39$
Ans $\times 1 .-$ and $x$
X 2. - and +
3. + and $\times$
v. 4 and +
Q. 17 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 18 Six children, G, H, I, J, K, and L, are sitting around a circular table facing towards the centre. $J$ and $K$ are sitting to the immediate left and right of $G$, respectively. $L$ is sitting to the immediate left of J , but not to the immediate right of H . Who is sitting to the immediate right of $K$ ?
Ans
X1.J

- 2. H

X3. L
X4.1
Q. 19 In a certain code language, 'COLOUR' is written as 'FQOQXT' and 'VIOLET' is written as 'YKRNHV'. How will 'PURPLE' be written in that language?

Ans $\quad \times$ 1.SXUSOG
$X$ 2.RWUSPH
3. SWUROG

X4.RXWSOH
Q. 20 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 $\quad X 1$.HAUPL
$X$ 2. YRLGC
, 3. GZTNK
X4.ATNIE
Q. 21 Which of the option figures, when rotated $135^{\circ}$ clockwise followed by $45^{\circ}$ anticlockwise, will result in the given question figure?


Ans

$\checkmark 2$

Q. 22 In a certain code language, 'LILY' is coded as 116, and 'LOTUS' is coded as 174. How will 'TULIP' be coded in that language?
Ans
<1.126
2. 78
3. 156
4. 168
Q. 23 If '@' means 'addition', '\%' means 'multiplication', '\$' means 'division', and '\#' means 'subtraction', then find the value of the following expression.

9 @ 114 \$ 19 \% 5 \# 21
Ans

1. 32
2. 18
3. 26
4. 20
Q. 24 Select the number from among the given options that can replace the question mark (?) in the following series.

35, 54, 77, 106, 137, ?
Ans
$\times 1.179$
2. 151

X
3. 170
4. 174
Q. 25 Select the Venn diagram that best represents the relationship between the following.

Living organisms, Omnivores, Deer, Planet
Ans


## Section : General Awareness

Q. 1 Who among the following leaders of Indian Freedom Movement gave the slogan 'Freedom is my birthright and I shall have it'?
Ans $X 1$. Subhash Chandra Bose
2. Bal Gangadhar Tilak

X 3. Gopalkrishna Gokhale
X 4. Lala Lajpat Rai
Q. 2 Mountaineers refer to altitudes above about $\qquad$ metres as the 'death zone'.

Ans $\quad \mathbf{X} 1.5,800$
2. 8,000

X 3.6,700
X4.7,200
Q. 3 Organisms belonging to the phylum $\qquad$ are also called 'flatworms'.
Ans

1. Platyhelminthes
$X$ 2. Ctenophora
$\times$ 3. Porifera
$X$ 4. Cnidaria
Q. 4 In May 2020, the Government of India announced a special economic and comprehensive package equivalent to $\qquad$ of India's GDP under Atmanirbhar

## Bharat Abhiyan.

Ans

- $1.10 \%$

X 2. $20 \%$
X $3.25 \%$
$\times 4.15 \%$
Q. 5 Which of the following pairs of Indian revolutionaries and organisations is CORRECTLY paired?
Ans $\quad \times 1$. M Veera Raghavachari - Poona Sarvajanik Sabha

- 2. Badruddin Tyabji-Bombay Presidency Association

X 3. Mahadev Govind Ranade - Madras Mahajana Sabha
X 4. Surendranath Banerjee - East India Association
Q. 6 Which of the following titles was held by Prince Phillip, the late husband of Queen Elizabeth II, until his death in April 2021?
Ans $X$ 1. Duke of Cambridge
$X$ 2. Duke of Gloucester
$X$ 3. Duke of Windsor
4. Duke of Edinburgh
Q. 7 Irrespective of the source, pure water contains $\qquad$ of oxygen by mass.
Ans
X $1.35 .42 \%$
ح $2.88 .89 \%$
X 3.56.83\%
4. 11.11\%
Q. 8 $\qquad$ is an environmental policy under which producers are given a significant responsibility - financial and/or physical - for the treatment or disposal of products that are no longer useful to the consumer.
Ans
$X$ 1. Producers' Environmental Responsibility
$X$ 2. Ethical Producer Responsibility

- 3. Extended Producer Responsibility

X 4. Post-consumer Environmental Responsibility
Q. 9 One mole of an ideal gas occupies a volume of $\qquad$ litre at 273 K and 1 atm pressure.
Ans $\quad \times 1.21 .2$

- 2. 25.13. 20.3

4. 22.4
Q. $10 \ldots$ was among 12 people chosen for the 'International Anti-Corruption Champions Award' constituted by the United States Department of State in February 2021.
Ans $\quad$ 1. Medha Patkar
X 2. Archana Borthakur
X 3. Flavia Agnes

- 4. Anjali Bhardwaj
Q. 11 As per National Family Health Survey 5, is the only state with a sex ratio at birth for children born in the last five years (urban + rural), above 1,000.
Ans

1. Andhra Pradesh
2. Goa
3. Himachal Pradesh
4. Tripura
Q. 12 $\qquad$ ranked first on Forbes' list of 'Highest-Paid Female Athletes 2020'.

Ans 1. Naomi Osaka
X 2. Alex Morgan
X 3. Serena Williams
X 4. Ashleigh Barty
Q. 13 Which of the following rivers flow through both the states, West Bengal and Sikkim?

Ans
X 1. Koshi
2. Hooghly
$\times$ 3. Sone

- 4. Teesta
Q. 14 In which of the following years Motilal Nehru along with eight other congress leaders drafted a Constitution for India?
Ans

1. 1928

X 2. 1935
< 3. 1945
X 4.1931
Q. 15 'Hypnea indica' and 'Hypnea bullata' are types of :

Ans $\times 1$. green seaweeds
2. black seaweeds
3. yellow seaweeds
4. red seaweeds
Q. 16 The system of MSP (Minimum Support Price) was first introduced for $\qquad$ in 1966-67 and later expanded to include other essential food crops.
Ans $\quad$ 1. jowar
2. bajra
3. wheat
4. ragi
Q. 17 Who among the following is an Indian professional tennis player?

Ans $\times 1$. Shanti Mallick
2. Ankita Raina

X 3. Aditi Chauhan
X 4. Bala Devi
Q. 18 Article of the Indian Constitution states that 'there shall be a Commission for the socially and educationally backward classes to be known as the National Commission for Backward Classes'.

Ans
X 1.124A(1)
X 2.243 (1) $^{(1)}$
X 3.243Y(1)

- 4. 338B (1)
Q. 19 Who among the following persons is NOT a co-author of the book 'Till We Win: India's Fight Against the Covid-19 Pandemic'?
Ans $\quad$ 1. Dr Gagandeep Kang

2. Dr Soumya Swaminathan

Х 3. Dr Chandrakant Lahariya
4. Dr Randeep Guleria
Q. 20 Which of the following is a folk song genre popular in parts of West Bengal, Assam and Bangladesh?
Ans $\quad$ 1. Chalo
X 2. Roppi

- 3. Bhawaiya

X 4. Rekham Pada
Q. 21 In which of the following forts was Razia Sultan imprisoned by Malik Ikhtiyar-ud-din Altunia?
Ans 1. Qila Mubarak in Bathinda
X 2. Jaigarh fort in Jaipur
3. Golconda fort in Golconda

Х 4. Mehrangarh fort in Jodhpur
Q. 22 Carbon monoxide contains approximately $\qquad$ of oxygen for each 1.00 g of carbon.
Ans $\quad \times 1.0 .23 \mathrm{~g}$
$\times 2.2 .66 \mathrm{~g}$

* 3.1 .33 g
$\times 4.4 .11 \mathrm{~g}$
Q. 23 The Central Board of Directors of the Reserve Bank of India are appointed for a term of years.
Ans $X$ 1.three
$X$ 2. two

3. four
$\times 4$. five
Q. 24 $\qquad$ is an annual three-day festival held at Bara Shaheed Dargah in Nellore.
Ans $\quad \times$ 1. Bheldiya
$X$ 2. Baishagu
$X$ 3. Ali Ai Ligang
4. Rottela Panduga
Q. 25 The__Amendment Act of the Constitution of India introduced the Goods and Services Tax (GST) in India.
Ans
X 1.104th
X 2.92nd
5. 101st
6. 98th
Q. 120 men can finish a work in 30 days. They started working, but 4 men left the work after 10 days. In how many days would the work be completed?

Ans

1. 30
2. 25
3. 35
4. 28
Q. 2

The bar graph shows the number of people who visited Mall A and Mall B on different days of a week.


What is the ratio of the number of people visiting Mall A on Thursday, Saturday and
Sunday together to the number of people visiting Mall B on these three days together?
Ans

1. $27: 25$
2. $80: 81$
3. $81: 80$
4. $25: 27$
Q. 3 A fruit seller sells $45 \%$ of the oranges that he has along with one more orange to a customer. He then sells $20 \%$ of the remaining oranges and 2 more oranges to a second customer. He then sells $90 \%$ of the now remaining oranges to a third customer and is still left with 5 oranges. How many oranges did the fruit seller have initially?

Ans

1. 100
2. 111
3. 121
4. 120
Q. 4 AB is a chord of a circle with centre O . C is a point on the circumference of the circle in the minor sector. If $\angle A B O=$ $40^{\circ}$, what is the measure (in degree) of $\angle A C B$ ?
Ans
5. $110^{\circ}$
6. $130^{\circ}$
7. $100^{\circ}$
8. $120^{\circ}$
Q. 5 In a triangle ABC , the bisector of angle BAC meets BC at point D such that $\mathrm{DC}=2 \mathrm{BD}$. If $\mathrm{AC}-\mathrm{AB}=5 \mathrm{~cm}$, then find the length of $A B$ (in cm ).

Ans

1. 10
2. 12
3. 7
4. 5
Q. 6 Two successive discounts of $20 \%$ and $25 \%$ on the marked price of an article are equal to a single discount of ₹ 250 . If the marked price of the article is $25 \%$ above the cost price, the cost price (in ₹) of the article is:

Ans

1. 450
2. 600
3. 550
4. 500
Q. 7 The following bar graph shows receipts and expenditure by a business firm over 5 years. Gain $=$ Receipts Expenditure.

In which year did the company gain the maximum amount?


Ans

1. 2016
2. 2017
3. 2018
4. 2020
Q. 8 A shopkeeper bought 60 pencils at a rate of 4 for $₹ 5$ and another 60 pencils at a rate of 2 for $₹ 3$. He mixed all the pencils and sold them at a rate of 3 for ₹ 4 . Find his gain or loss percentage.
Ans
5. Profit $3 \frac{1}{8} \%$
6. $\operatorname{Loss} 3 \frac{1}{33} \%$
7. Profit $2 \frac{7}{8} \%$
8. $\operatorname{Loss} 2 \frac{7}{8} \%$
Q. 9 What is the compound interest (in $₹$ ) at the rate of $10 \%$, compounded annually, for 3 years on the principal which in 8 years at the rate of $12 \%$ per annum gives $₹ 4,800$ as simple interest?
Ans 1. 1,455
9. 1,655
10. 2,045
11. 1,505
Q.10 Akhil rides first 12 km at a speed of $16 \mathrm{~km} / \mathrm{h}$ and further 6 km at a speed of $20 \mathrm{~km} / \mathrm{h}$. Find his average speed (in $\mathrm{km} / \mathrm{h}$ ).

Ans
$\times 1.18 \frac{1}{5}$
2. $17 \frac{1}{7}$
$\times 3.17 \frac{1}{2}$
$\times 4.16 \frac{4}{5}$
Q.11 A and $B$ entered into a partnership with certain investments. At the end of 8 months, $A$ withdrew and collected back his money. A and B received profit in the ratio $5: 9$ at the end of the year. If B had invested ₹ 36,000 , then how much (in ₹) had A invested?
Ans 1. 25,000
2. 30,000
3. 20,000
4. 36,000
Q. 12 Simplify the following expression:
$\frac{\cos A}{1-\tan A}+\frac{\sin A}{1-\cot A}-\sin A$
Ans

1. $1+\cos A$
2. $(1+\sin A) \cos A$
3. $1+\sin A$
4. $\cos A$
Q. 13 What is the angle of elevation of the sun when the shadow of a $9-\mathrm{m}$ high pole is $3 \sqrt{3} \mathrm{~m}$ long?

Ans $\times 1.30^{\circ}$
2. $45^{\circ}$
3. $60^{\circ}$
4. $90^{\circ}$
Q. 14 The average of twelve numbers is 42 . The average of the last five numbers is 40 , and that of the first four numbers is 44 . The sixth number is 6 less than the fifth number and 5 less than the seventh number. The average of the sixth and seventh numbers is:

Ans

1. 41.5
2. 43.5
3. 44.5
4. 45.5
Q. 15 Performance of 1800 students in grades has been shown in the following pie chart.

How many students have got either grade $D$ or grade $E$ ?


Ans

1. 345
2. 352
3. 342
4. 359
Q. 16 Find the value of k such that the number k 53206 k is divisible by 6 .

Ans

1. 7
2. 4
3. 2
4. 1
Q. 17 Find the greatest 3 -digit number which, when divided by $3,4,5$ and 8 , leaves remainder 2 in each case.

Ans

1. 962
2. 122
3. 958
4. 482
Q. 18 In a circle with centre $O$ and of radius 13 cm , two parallel chords are drawn on different sides of the centre. If the length of one chord is 10 cm and the distance between the two chords is 17 cm , then find the difference in lengths of the two chords (in cm).

Ans

1. 10
2. 14
3. 24
4. 12
Q. 19 If $(x+y)^{3}-(x-y)^{3}-3 y\left(2 x^{2}-3 y^{2}\right)=k y^{3}$, then find the value of $k$.

Ans

1. 10.5
2. 8
3. 11
4. 10
Q. 20 The given histogram represents the marks of students in Mathematics test of a certain class.

The total number of students is 350 and the maximum marks of the test are 200 .
Study the graph and answer the question that follows.


The total number of students whose marks are less than 100 is what percentage (correct up to one place of decimal) less than the total number of students whose marks are 120 and above?
Ans

1. $32.7 \%$
2. $36.6 \%$
3. $43.2 \%$
4. $51.8 \%$
Q. 21 If $\cot ^{2} \alpha+\tan ^{2} \alpha=2,0^{\circ} \leq \alpha \leq 90^{\circ}$, then find the value of $a$

Ans $\times 1.0^{\circ}$
-2. $45^{\circ}$
$\times 3.60^{\circ}$
$\times 4.90^{\circ}$
Q. 22 Find the value of the following expression:
$\frac{1 \frac{2}{3} \div \frac{5}{6} \times 6+\frac{4}{5} \times \frac{1}{2}+\frac{2}{3}}{2-\left[1 \frac{1}{3} \times\left(-\frac{3}{5}\right)-6\left\{\frac{3}{5}-\left(3-\frac{3}{10}\right)\right\}\right]}$
Ans
-1. $-\frac{4}{3}$
$\times 2 \frac{4}{3}$
$\times 3 \frac{1}{7}$
$\times 4 .-\frac{1}{7}$
Q. 23 In a right-angled triangle, the lengths of the medians from the vertices of acute angles are 7 cm and $4 \sqrt{6} \mathrm{~cm}$. What is the length of the hypotenuse of the triangle (in cm )?

Ans

1. $3.5+2 \sqrt{6}$
$\times 2 \frac{5}{2} \sqrt{29}$
2. $\sqrt{29}$
3. $2 \sqrt{29}$
Q. 24 The length of a wire (in cm ) of 0.1 mm radius that can be drawn from melting a solid copper sphere of diameter 6 cm is:

Ans 1. 250000
2. 360000
3. 440000
4. 810000
Q. 25 If $a+b+c=11$ and $a b+b c+c a=28$, then find the value of $a^{3}+b^{3}+c^{3}-3 a b c$.

Ans

1. 1639
2. 407
3. 2255
4. 1093

Section : English Comprehension
Q. 1 Select the most appropriate synonym of the given word.

Arid
Ans

1. Dry

X 2. Lively
3. Damp
4. Fertile
Q. 2 Select the INCORRECTLY spelt word.

Ans

1. Annivarsary
$X$ 2. Anguish
$X$ 3. Anonymous
2. Announcement
Q. 3 Select the option that expresses the given sentence in active voice.

I have been informed of their decision.
Ans $\quad X_{1}$. They are informing me of their decision.
$X$ 2. They informed me of their decision.
3. They had informed me of their decision.
4. They have informed me of their decision.
Q. 4 Identify the segment in the sentence which contains the grammatical error.

Smita lived in this house since she was five years old.
Ans $\quad$ 1. five years old
2 2. in this house
Х 3. since she was
4. Smita lived
Q. 5 Select the most appropriate synonym of the given word.

Tranquil
Ans

1. Calm
2. Alert

X 3. Aware
X 4. Dazed
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

An animal with a spinal cord
Ans $\quad \times 1$. Amphibian
$X$ 2. Mammal
X 3. Invertebrate

- 4. Vertebrate
Q. 7 Select the most appropriate ANTONYM of the given word.


## Feeble

Ans
$X 1$. Wild
$X 2$. Fast
3. Strong

X 4. Fickle

## Q. 8 Select the option that expresses the given sentence in direct speech.

The guard told the children to stay away from the flower beds.
Ans
$X$ 1. The guard says to the children, "Stay away from the flower beds."
2. The guard told to the children, "Stay away from the flower beds."
3. The guard said, "Children, should you stay away from the flower beds."
4. The guard said, "Children, stay away from the flower beds."
Q. 9 Select the most appropriate ANTONYM of the given word.

Famished
Ans $\quad$ 1. Hesitant
2. Volatile
3. Starved
4. Satiated
Q. 10 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.

A shop nearby / sell all the goods / of daily use.
Ans $\quad X 1$. No error
X 2. A shop nearby
3. sell all the goods
$X 4$. of daily use
Q. 11 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'.

I can't make out my mind about taking a vacation in winter.
Ans

1. make up
$X$ 2. made out
$X$ 3. No substitution required
$X$ 4. make on

## Q. 12 Select the most appropriate meaning of the given idiom.

## Blow your own trumpet

Ans 1. Boast about one's own qualities
2. Keep away the dust from your instruments
3. Practise playing music
4. Play on your instrument
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.

Able to be happy, successful, etc. again after something difficult or bad has happened
Ans $\quad \mathbf{X}_{1}$. Reluctant
X 2. Remnant
3. Resilient

X 4. Resistant
Q. 14 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.

He was formerly / a doctor of / the corporate hospital.
Ans

1. No error
2. He was formerly
3. the corporate hospital
4. a doctor of
Q. 15 Select the most appropriate meaning of the given idiom.

A snake in the grass
Ans $\quad \underset{1}{ }$. A sudden death
2. A good fortune
3. A hidden enemy
4. An unfortunate accident
Q. 16 Identify the segment in the sentence which contains the grammatical error.

Our team have won the match.
Ans $\times 1$.the match
X 2. won
X 3. Our team

- 4. have
Q. 17 Select the most appropriate option to fill in the blank.

They called Mohan a $\qquad$ because he did not want to go into the dark lane.
Ans

1. coward
$X 2$ 2. hero
X 3.brave
2. valiant
Q. 18 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 always shared machinery and goods as needed without a hitch.
B. Then they had the first serious quarrel in 40 years of farming side by side.
C. And unfortunately, the long collaboration fell apart.
D. Two brothers lived on adjoining farms in a small village.

Ans
X 1. DBCA

- 2. DABC

X 3. CADB
4.BCAD
Q. 19 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'.

Hardly had we get in but the train started.
Ans
$X$ 1. we get in than
2 2. No substitution required
3. we got in before

- 4. we got in when


## Q. 20 Select the correct active voice of the given sentence.

The watchman has been bitten by a stray dog.
Ans $\quad X 1$. A watchman has bitten the stray dog.
2. A stray dog has bitten the watchman.
$X$ 3.A stray dog bit the watchman.
X 4. A stray dog is biting the watchman.

## Comprehension:

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

A banker taped a picture, drawn by one of his small children, to his office wall. When he 1. at work the next morning, he found the 2 $\qquad$ was covered by a 3 . $\qquad$ notice, saying he was in 4. $\qquad$ of company policy which required personal items to be put away
at night. 5 . $\qquad$ a reaction was not just petty, it risked demotivating the banker completely.
In short, it defied common sense.
SubQuestion No : 21
Q.21 Select the most appropriate option to fill in blank no. 1.

Ans $\quad \times 1$. turned
X 2. achieved
X 3. reached
4. arrived

## Comprehension:

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

A banker taped a picture, drawn by one of his small children, to his office wall. When he 1. at work the next morning, he found the 2 . $\qquad$ was covered by a 3 . $\qquad$ notice, saying he was in 4 .__ of company policy which required personal items to be put away at night. 5 . $\qquad$ a reaction was not just petty, it risked demotivating the banker completely.
In short, it defied common sense.
SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank no. 2.

Ans $\times 1$.tape
2. office
$\times$ 3. child

- 4. picture


## Comprehension:

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

A banker taped a picture, drawn by one of his small children, to his office wall. When he 1. at work the next morning, he found the 2 $\qquad$ was covered by a 3. $\qquad$ notice, saying he was in 4 .___ of company policy which required personal items to be put away at night. 5. a reaction was not just petty, it risked demotivating the banker completely. In short, it defied common sense.

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

Ans $\quad$ 1. substantial
2. large
3.generous
4. considerable

## Comprehension:

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

A banker taped a picture, drawn by one of his small children, to his office wall. When he 1. at work the next morning, he found the 2 $\qquad$ was covered by a 3. notice, saying he was in 4. $\qquad$ of company policy which required personal items to be put away a reaction was not just petty, it risked demotivating the banker completely. In short, it defied common sense.

## SubQuestion No : 24

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

Ans
2. damage
3. interruption
4. disruption

## Comprehension:

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

A banker taped a picture, drawn by one of his small children, to his office wall. When he 1 . at work the next morning, he found the 2 . _ was covered by a 3._notice, saying he was in 4 .___of company policy which required personal items to be put away at night. 5.__a reaction was not just petty, it risked demotivating the banker completely. In short, it defied common sense.

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

Ans $\quad \times 1$. That
2. Such
$\times$ 3. This
X 4. Which

