| Exam Date | $13 / 12 / 2022$ |
| :--- | :--- |
| Exam Time | $9: 00$ AM - 10:00 AM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

## Section: General Intelligence and Reasoning

Q. 1 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking
down the numbers into its constituent digits. E.g., 13 - Operations on 13 such as
adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed).
$(16,7,81)$
$(24,16,64)$
Ans

1. $(13,7,36)$

X 2. $(48,39,18)$
X 3. $(37,25,100)$
X 4. $(21,19,8)$
Q. 2 In the following question, select the missing number from the given series. 67, 46, 24, 1, -23, ?

Ans

1. -48
2. -38
3. -46
4. -50
Q. 3 Select the option figure in which the given figure ( X ) is embedded as its part (rotation is NOT allowed).
(×)


Ans

$\times 4$.

Q. 4 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
68 : 19 :: 76 : 21 :: 164 : ?
Ans
$\times 1.45$
$\times 2.39$
3. 43
$\times 4.41$
Q. 5 In a certain code language, 'COMMUNITY' is written as 'YITUNMCOM' and 'AUTHORITY' is written as 'YITORHAUT'. How will 'ISOLATION' be written in that language?
Ans
X 1. NIAOTLISO
X 2. nioatilso
$\times$ 3. NIOATLIOS
4. NIOATLISO
Q. 6 In a certain code language 'BOTTLE' is written as ' 148 ', 'SIPPER' is written as ' 166 '. How will 'BUMPER' be written in that language?
Ans
$\times 1.160$
X 2.170
3. 150
4. 180
Q. 7 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
ACCUSED : UCCASDE :: FACTORY : TCAFOYR :: DYNAMIC : ?
Ans
$X$ 1. YNMICAD
X 2. DNYMACI
3. ANYDMCI
4. DANYMIC
Q. 8 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans

$\times 2$

Q. 9 A $B$ means ' $A$ is the sister of $B$ '.
$A @ B$ means ' $A$ is the son of $B$ '.
$A$ \& $B$ means ' $A$ is the father of $B$ '.
$A \% B$ means ' $A$ is the mother of $B$ '.
If W \& Q \# T \& Y @ M \% K, then how is Q related to K?
Ans

1. Mother's sister
2. Sister
3. Father's sister
4. Father's mother
Q. 10 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).
Statements:
Some pencils are rods.
No rod is a door.
All balls are rods.
Conclusions:
I. Some pencils being balls is a possibility.
II. No ball is a door.
III. All rods are balls.
IV. No pencil is a door.
5. Only Conclusions I, II and IV follow
6. Only Conclusions I and II follow
7. Only Conclusion I follows
8. Only Conclusions II and III follow
Q. 11 Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Rice : Carbohydrates
Ans
X 1. Eggplant : Vegetable
9. Flesh : Chicken
10. Cottage cheese : Protein
$X$ 4. Orange : Fruit
Q. 12 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
NTR, TCE, ZLR, FUE, ?
Ans
< 1. LMR
11. LDR
12. RNQ
13. RMO
Q. 13 Which of the following letter-clusters will replace the question mark (?) in the given series?
DBK, GDL, JFM, MHN, ?
Ans
X 1. QKN
X 2. PKO
14. PJO

X 4. QJO
Q. 14 Select the figure that will come next in the following figure series.


Ans

$\times 2$.

$\times 3$

4.

Q. 15 If $A \times B$ means that $A$ is the brother of $B, A-B$ means that $A$ is the sister of $B, A+B$ means that $A$ is the father of $B$ then which of the following expression shows that $P$ is the father of $R$ ?

Ans

1. $P+Q \times R$

X 2. $P \times Q+R$
$X 3 . P+Q \div R$
X4. $\mathrm{P}-\mathrm{Q} \times \mathrm{R}$
Q. 16 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. No $A$ is $B$.
II. No C is B.

Conclusion:
I. Some C are not A.
II. Some $\mathbf{A}$ are B.

Ans

1. Neither conclusion follows

X 2. Only conclusion II follows
$X$ 3. Only conclusion I follows
X 4. Both conclusions I and II follows
Q. 17 By Interchanging the given two numbers which of the following equation will be correct?
4 and 6
Ans
$1.4 \div 2+3-6 \times 5=-14$
X2. $9 \div 3+6 \times 5-4=18$
X $3.4 \times 3+6-2 \div 1=21$
X $4.4-6 \div 2+3 \times 5=20$
Question ID : $\mathbf{2 6 4 3 3 0 1 0 5 0 9 4}$
Status: Answered
Chosen Option : 1
Q. 18 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13

- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. $(14-28-42)$

X 2. $(16-32-64)$
$\times 3$. (18-36-72)
X4. (12-24-48)
Q. 19 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
16 : 96 :: ? : 161 :: 18 : 120
Ans
$\times 1.22$
2. 21
$\times 3.20$
X 4.24
Q. 20 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
50 * 10 * 20 * 5 * 105
Ans
X2. $\times,-,+,=$
X 3. $\div, x,-,=$
4. $\times, \div,+,=$
Q. 21 After arranging the given words according to dictionary order, which word will come at 'Third' position?

1. Overwork
2. Overwrought
3. Overwhelming
4. Overweight
5. Overweening

Ans

1. Overwhelming
$X$ 2. Overwrought
$X$ 3. Overweight
$X 4$. Overweening

Q. 22 Which of the following interchange of numbers and mathematical signs would make the given equation correct? $\mathbf{2 8}+\mathbf{7 \times 1 0 \div 5 - 2 0 = 5}$
Ans
2. 10 and $20, \times$ and +
3. 5 and $20,-$ and $\div$
$\times 3.7$ and $28, \times$ and $\div$

- 4.5 and $10,+$ and $\div$
Q. 23 Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?
Ans
X 1. PONM
$\times 2$. EDCB
X 3. SRQP

4. BYXW
Q. 24 A paper is folded and cut as shown below. How will it appear when unfolded?

Q. 25 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 2$

3.

$\times 4$.


## Section: General Awareness

## Q. 1 In which year was Asha Bhosle's name entered into the Guinness Book of World Records for most studio recordings?

Ans
$\times 1.2017$
$\times 2.2020$
X 3.2014
4. 2011

## Q. 2 Which article of Indian constitution is related with the Special provisions with respect to the State of Sikkim?

Ans
$X$ 1. Article 371C
X 2. Article 3713. Article 371F
4. Article 371A
Q. 3 Which of the following statement is correct with respect to the Sangam literature?
I. These texts were supposed to be composed and compiled in assemblies of poets. II. The Sangam literature compiled in assemblies of poets were held in the city of Madurai.
Ans
X 1. Neither I nor II
2. Both I and II
3. Only I
4. Only II
Q. 4 Which of the following have mountain range young fold mountains?

Ans $\times 1$. Appalachians mountain range
2. Alps mountain range
$\times$ 3. Aravali mountain range
4. Ural mountain range
Q. 5 Identify a fomite from the following.

Ans
X 1. Drinking water
X 2. Blood
<3. Saliva
4. Glass

## Question ID : 26433086704

Status: Answered
Chosen Option : 4
Q. 6 Kullu Dussehra is a colourful festival majorly celebrated in which state/union territory?

Ans
X 1. Delhi
2. Telangana

X 3. Uttar Pradesh
4. Himachal Pradesh
Question ID : 26433071423
Status : Answered
Chosen Option: 4
Q. 7 Peat coal has $\qquad$ carbon and $\qquad$ moisture content?
Ans $\times 1$. High, Low
2. Low , high
$X$ 3. High, High
4. Low, Low

## Q. 8 After the

$\qquad$ Mahatma Gandhi called off the Non-Cooperation Movement.
Ans $\times$ 1. Jallianwala Bagh massacre
2. Chauri Chaura incidence

Х 3. Bengal partition
$\times 4$. Round Table conferences
Q. 9 The Kashi Yatra Scheme was introduced by the government of $\qquad$ .

Ans

- 1. Karnataka

X 2. Uttar Pradesh
X 3. Punjab
X 4. Kerala
Q. 10 The national highway network connecting Delhi, Mumbai, Chennai and Kolkata is called $\qquad$ _.
Ans

1. Diamond quadrilateral
2. Diamond polygon
3. Golden polygon
4. Golden Quadrilateral

## Q. 11 Synecology can be defined as which of the following?

Ans

1. A branch of science that deals with the interrelationship of individual species with its environment.
2. A branch of science that deals with the interrelationship of two species.
3. A branch of science that deals with the interrelationship of whole biome.
4. A branch of ecology that deals with the structure, development and distribution of ecological communities.

## Q. 12 'Thaipoosam' festival is celebrated in which state of India?

Ans
X 1. Bihar
2. Andhra Pradesh
3. Tamil Nadu

X 4. Goa
Q. 13 The Kuchipudi dance form originated in which of the following states of India?

Ans

1. Uttar Pradesh
2. Kerala
$\times$ 3. Assam
3. Andhra Pradesh
Q. 14 The SI unit of speed is $\qquad$ .
Ans

- $1 . \mathrm{m} / \mathrm{s}$
$\times 2 . \mathrm{km} / \mathrm{s}$
$\times 3 . \mathrm{km} / \mathrm{hr}$
X $4 . \mathrm{m} / \mathrm{hr}$
Q. 15 On the occasion of teacher's day 2022, the Indian Science Technology and Engineering facilities Map (I-STEM) launched an initiative to strengthen the efforts of scientifically inclined women. What is the name of this initiative?
Ans
X 1. KUSUM

2. KALYAN
3. WEST

- 4. namASte
Q. 16 The first English Factory in Bengal set up on the banks of river "Hugli" in $\qquad$ .
Ans
X 1.1671
- 2. 1641

3. 1661
4. 1651
Q. 17 In which of the following cities did Prime Minister Narendra Modi participate in 2019 as part of the celebration of International Day of Yoga on June 21?

Ans

1. Ranchi
2. Lucknow
3. New Delhi
4. Chandigarh
Q. 18 What should be the standard length of a tennis court according the laws of the International Tennis Federation (ITF), 2021?
Ans
5. 23.77 m
6. 22.45 m
7. 26.42 m

X 4.25 .34 m
Q. 19 Article 20 of the Constitution of India deals with $\qquad$ .
Ans $\times 1$. protection of life and personal liberty
2. protection in respect of conviction for offences

X 3. abolition of untouchability
4. right to education
Q. 20 Who is the father of the modern ecology?

Ans
X 1. Robert Brown
2. Charles Darwin
3. E P Odum
4. Robert Hook

Question ID : 26433089653
Status : Not Answered
Chosen Option : --
Q. 21 Which of the following Indian states receive rainfall during October and November due to the North-East monsoon?
Ans

1. Uttar Pradesh
2. Maharashtra
3. Madhya Pradesh
4. Tamil Nadu

## Q. 22 Who is the Ex-officio Chairman of NITI Aayog?

Ans
$X$ 1. President
2. Prime Minister

X 3. Home Minister
4. Finance Minister
Q. 23 Which of the following statements is true?
A)Wage bill of the government is a capital expenditure.
B) Disinvestment by the government in a company is a capital receipt.

Ans
$X$ 1. Only (A)
$X$ 2. Neither (A) nor (B)
X 3. Both $(A)$ and (B)
4. Only (B)
Q. 24 Who has been appointed as the 37th CRPF Director General?

Ans
X 1. Rajendra Kumar
2. Sujoy Lal Thaosen

X 3. Anil Chauhan
X 4. Vijay Jasuja
Q. 25 Who among the following gave up his traditional professions and took to arms, successfully established kingdom in Karnataka?
Ans

1. Vasudeva Kanva
2. Gurjara-Pratihara Harichandra
3. Pushyamitra Shunga
4. Kadamba Mayurasharman

Section : Quantitative Aptitude
Q. $1 \triangle \mathrm{ABC} \sim \triangle \mathrm{DEF}$ and the perimeters of these triangles are 32 cm and 12 cm , respectively. If $\mathrm{DE}=6 \mathrm{~cm}$, then what will be the length of $A B$ ?

Ans 1.16 cm
X 2. 14 cm
X 3.12 cm
$\times 4.18 \mathrm{~cm}$
Q. 2 The bar graph given below shows the percentage distribution of the total production of six different types of cars by a car manufacturing company over 2 years.

Percentage of Six different types of Cars manufactured by a Company over Two Years


If $75 \%$ of the $T$ type cars produced in each year were sold by the company, how many T type cars remain unsold?

Ans
X 1.23500
$\times 2.22000$
-3. 24125
4. 25000

Q. 3 The table given below shows the number of working days of a company in 5 years.

| Years | Working days |
| :---: | :---: |
| P | 110 |
| Q | 310 |
| R | 160 |
| S | 60 |
| T | 210 |

What are ratio of number of working days in year R to the number of working days in year $T$ ?
Ans

1. $16: 21$
$\times 2.15: 22$
$\times 3.21: 17$
X. $21: 16$
Q. 4 The monthly income of Mr. Roy is Rs. 18,000 . He took a loan of Rs. 30,000 on simple interest for 3 years at the rate of $5 \%$ per annum. The amount that he will be paying as simple interest in 3 years is what percent of his monthly salary?

Ans
X $1.30 \%$

- 2. $35 \%$

3. $20 \%$
4. $25 \%$
Q. 5 When $m^{12}-1$ is divided by $m+1$, the remainder is:

Ans
$\times 2.2$
3.0
X4. -1
Q. 6 The table given below shows the number of salesman in five companies.

| Companies | Salesman |
| :---: | :---: |
| J | 45 |
| K | 20 |
| L | 40 |
| M | 15 |
| N | 25 |

Number of salesman in $J$ is what percent of the number of salesman in $K$ ?
Ans
X 1.250 percent
2. 150 percent
3. 125 percent
4. 225 percent
Q. 7 Ramesh purchases a table and a chair for Rs.3,900. He sells the table at a profit of 8\% and the chair at a profit of $16 \%$. He earns a profit of Rs. 540 . What is the difference between the original price of the table and the chair?

Ans
X 1. Rs.2,000
2. Rs. 1,800
3. Rs. 1,900
4. Rs.1,700

## Q. 8 Which of the following statement is correct?

I. If $x=12, y=-2$ and $z=-10$, then $x^{3}+y^{3}+z^{3}=360$.
II. If $x+y=48$ and $4 x y=128$, then $4 x^{2}+4 y^{2}=4480$.

Ans

1. Neither I nor II
2. Only I

X 3. Both I and II
4. Only II
Q. 9 The number of units manufactured by a company A was 12500 units in 2019 and 10625 units in 2020. While in company B, the production fell from 34000 units in 2019 to 30600 units in 2020. If $X$ and $Y$ are the percentage decrease in the number of units manufactured by company A and B respectively from 2019 to 2020, then what will be the ratio of X and Y ?

Ans
1.5:3

- $2.3: 4$

3. $3: 2$
4. $8: 5$
Q. 10 Study the given graph and answer the following question


The number of lecturers rectuited in state $B$ in the year 2019 was what percentage of the number of lecturers recruited in state C in the year 2021 ? (Correct to 2 decimal places.)
Ans

1. $56.25 \%$
2. $50.25 \%$
3. $48.62 \%$
4. $57.89 \%$
Q. 11 The circumference of the two circles is 110 cm and 330 cm respectively. What is the difference between their radii?
Ans
$\times 1.70 \mathrm{~cm}$
5. 15 cm
3.46 cm
4.35 cm
Q. 12

If $\mathrm{K}+\frac{1}{\mathrm{~K}}+2=0$ and $\mathrm{K}<0$, then what is the value of $\mathrm{K}^{11}+\frac{1}{\mathrm{~K}^{4}}$ ?
Ans
$\times 2 .-2$
X 3. -1
-4. -17
Q. 13 If $\sec ^{2} \mathrm{~A}+\tan ^{2} \mathrm{~A}=3$, then what is the value of $\cot \mathrm{A}$ ?

Ans
X1. $\frac{1}{\sqrt{3}}$
-2. 0
3. 1
4. $\sqrt{3}$
Q. 14 An article costs Rs. 4,000 to a shopkeeper, who marks its price at Rs.8,400. The shopkeeper sells it to a customer at a discount of $25 \%$. The customer gets a further discount of $15 \%$ on the discounted price if the customer redeems a coupon issued by the store previously. What is the profit percentage (to the nearest integer) earned by the shopkeeper in this transaction?
Ans

- $1.34 \%$
< $2.51 \%$
< $3.42 \%$
$\times 4.36 \%$
Q. 15 If the numerical value of twice the curved surface area of a right circular cylinder is equal to the numerical value of its volume, then what is the numerical value of the radius of the base of the cylinder?

Ans
$\times 1.2$
$\times 2.3$
$\times 3.5$

- 4.4
Q. 16 If $x+\frac{1}{x}=6$, then find the value of $\frac{3 x}{2 x^{2}-5 x+2}$.

Ans
$\times 1.1$
2. $\frac{3}{7}$

2
*. $\overline{3}$
4. 0
Q. 17 The hour hand moves through 4 hours and has a length of 6 cm . Find the area (in $\mathbf{c m}^{2}$,rounded off to two decimal places) of the sector covered by the hour hand.

Ans

1. 32.69

- 2.30 .67

3. 37.71
4. 35.75
Q. 18 If $\theta$ is an acute angle and $\tan \theta+\cot \theta=2$, then the value of $\tan ^{200} \theta+\cot ^{200} \theta$ is:

Ans
$\times 1.1$

- 2.2

X 3.-1
$\times 4.0$
Q. 19 In the figure BCDE is a square and ABC is equilateral triangle then $\angle \mathrm{ADC}$ is:


Ans
$\times 1.45^{\circ}$
$\times 2.30^{\circ}$
$\times 3.60^{\circ}$
4. $15^{\circ}$
Q. 20 Salaries of Rida and Riya are in the ratio of $3: 5$, respectively. If the salary of each one is increased by Rs.5,000, then the new ratio becomes $5: 7$. What is Riya's present salary?
Ans

1. Rs. 12,500

X 2. Rs.7,500
X 3. Rs.2,500
X 4. Rs. 10,000
Q. 21 Ram, Shyam, Rohan, Reeta and Mukesh are five members of a family who are weighed consecutively and their average weight is calculated after each member is weighed. If the average weight increases by $\mathbf{2 k g}$ each time, how much heavier is Mukesh than Ram?

Ans
X 1.14 kg
X 2.18 kg
3. 16 kg

X 4.12 kg
Q. 22 A is $20 \%$ more efficient than B. How much time will they working together take to complete a job which $A$ alone could have done in 29 days?
Ans
$\times 1 . \frac{145}{11}$$\frac{116}{11}$$\frac{203}{11}$
$\frac{174}{11}$
Q. 23 Determine the LCM of two numbers if their HCF is 9 and their ratio is $14: 19$.

Ans

1. 2394

X 2.3990
3. 1596
$\times 4.3192$
Q. 24 In $\triangle P Q R, \angle Q=90^{\circ}, P Q=8 \mathrm{~cm}$ and $\angle P R Q=45^{\circ}$. Find the length of $Q R$.

Ans
$X 1.6 \mathrm{~cm}$
2. 3 cm
$\times 3.5 \mathrm{~cm}$
4.8 cm
Q. 25 In a 1000 m race, Arjun, Balaji and Charan are running. Arjun beats Balaji by 100 m , and Balaji beats Charan by 100 m . In the next 1000 m race (the speeds are the same as in the previous), Balaji gives Charan a head start of 100 m , and Arjun gives Balaji a head start of 100 m . Find the distance by which the winner is ahead of the person just behind him.

Ans

1. 100 m
2.40 m
3.30 m
2. 20 m
Q. 1 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

One of the students is always / late to the class; he has been warn / by the teacher many times; / but still, he keeps on being late.
Ans
X 1. One of the students is always
2. but still, he keeps on being late
3. by the teacher many times;
4. late to the class; he has been warn
Q. 2 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully.

The percentage of employees who called in sick and the number of employees who left their jobs within 2 years (were reflective of the level of job satisfaction).
Ans

1. are reflective of the level of job satisfaction
2. is reflective of the level of job satisfaction
3. has reflected the level of job satisfaction
4. were reflective on the level of job satisfaction
Q. 3 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. Omnivores get energy and nutrients from plant and animal materials by digesting carbs, protein, fat and fibre and metabolising the nutrients and energy of the sources ingested.
B. The many diverse animals categorised as omnivores may be divided into subcategories based on their dietary habits.
C. An omnivore is an animal that can feed and thrive on both, plant and animal substances.
D. They also have the capacity to integrate food sources like algae, fungus and bacteria into their diet.
Ans
$\times 1$. CABD
$\times 2$. ACDB
5. CADB

- 4. DCBA
Q. 4 Select the most appropriate synonym of the underlined word in the following sentence.
Roads in villages during rainy seasons become muddy.
Ans
X 1. fuzzy

2. filthy

X 3. blurred
4. unsoiled

## Q. 5 Select the most appropriate synonym of the underlined word.

The poet managed to paint a vivid picture of the landscape by the river through words.
Ans
X 1. Metaphoric
2. Evocative

X 3. Contemporary
4. Blurred
Q. 6 Select the option that expresses the given sentence in active voice.

I was fascinated by the novel.
Ans
$\times 1$. The novel was fascinated to me.

- 2. The novel fascinated me.

3. The novel fascinate me.
$\times 4$. The novel fascinates me.

Q. 7 Select the INCORRECTLY spelt word in the following sentence.

There lies no guarantee that the hierchical structural framework between the elite and downtrodden sections of the society is right.
Ans

1. hierchical
2. guarantee
3. structural
4. downtrodden
Q. 8 Select the sentences that contains no spelling errors.

Ans $\times 1$. Diabeties is a chronic disease.
2. Diabetes is a chronic disease.
< 3. Daibetes is a chronic disease.
4. Diabites is a chronic disease.
Q. 9 The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The man who / was committed / the theft last night / was caught this evening.
Ans
X 1. was caught this evening.
2. was committed
< 3. The man who
4. the theft last night
Q. 10 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Health club membership has grown by leaps and bounds after the pandemic.
Ans
$\times 1$. slowly and gradually
2. full of speed and excitement
3. hurriedly
4. very quickly
Q. 11 Select the most appropriate meaning of the given idiom. Steer clear of
Ans

1. Show someone how to do a job or activity
2. Be very easy
3. Avoid someone or something because it is dangerous for you
4. Be mentally and physically exhausted

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'.

The students decided to surprise their teacher on her birthday.
Ans
$X$ 1. their teacher at her birthday
X 2. there teacher on her birthday
X 3. her teacher on her birthday
4. No substitution
Q. 13 Select the option that expresses the given sentence in active voice.

The driver was taken to the nearest dispensary by the beggars.
Ans
$X$ 1. The beggars take the driver to the nearest dispensary.
2. The beggars took the driver to dispensary.
3. The beggars took the driver to the nearest dispensary.
4. To the nearest dispensary, the beggars took the driver.
Q. 14 Select the most appropriate option that can substitute the underlined segment in the given sentence.
He was sitting besides his best friend during the event.
Ans
$X 1$. was sitting about his
2. was sitting beside his
3. were sitting besides his
4. was sitting besides her
Q. 15 Select the most appropriate synonym of the underlined word in the given sentence.

The efforts of the doctors came to a futile end with the death of the patient.
Ans

1. Fruitless
< 2. Enriching
2. Startling
3. Terrifying
Q. 16 Complete the following collocation.

When I got the job, I knew what $\qquad$ money really is.
Ans
< 1. effort-earned
2. soft-earned
3. hard-earned
4. honest-earned
Q. 17 Rearrange the parts of the sentence in correct order.

Russell Wilson, an NFL
P. about Naomi Osaka saying that her
Q. has been spectacular to watch
R. humility and dedication to others
S. player for the Seattle Seahawks, wrote

Ans

- 1. SPRQ
< 2. PRQS
X 3.RPQS
<4. QPRS


## Q. 18 Select the most appropriate collocating word to fill in the blank.

This statement of the political leader has created $\qquad$ confusion.

Ans

1. utter
$X 2$. heavy
$X 3$ weighty
X 4. vast
Q. 19 Select the most appropriate synonym of the underlined word.

Marcella seemed morose and downcast when she refused to have dinner.
Ans
$\times 1$. Jocund
2. Excited
3. Gloomy
4. Liberal

## Q. 20 Select the correct direct form of the given sentence.

Shravan said that the prisoner had slept throughout the journey.
Ans

1. Shravan said, "The prisoner sleeps throughout the journey."
2. Shravan said, "The prisoner had been sleeping throughout the journey."
3. Shravan says, "The prisoner has slept throughout the journey."
4. Shravan said, "The prisoner had slept throughout the journey."

## 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.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the
year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj, Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).

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

Ans
X 1. built
2. produced

X 3. fabricated
4. manufactured

## 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.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the
year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 22
Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
$X 1$. generated
2. inspired

X 3. promoted
4. created

## 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.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the
year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3)
$\qquad$ Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta
and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No: 23
Q. 23 Select the most appropriate option to fill in blank number 3.

Ans

1. employed
$X$ 2. ordered
$X$ 3. contracted
$X$ 4. authorised

## 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.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the
year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3)
$\qquad$ Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) $\qquad$ toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 24
Q. 24 Select the most appropriate option to fill in blank number 4.

Ans
$X$ 1. invaded
2. penetrated
3. entered
4. pierced

## 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.

Comics have (1) $\qquad$ many superheroes. Bantul, the great was (2) $\qquad$ in the year 1965 in the backdrop of the Indo-Pak war. Indrajal comics was set up in 1964 and (3) Aabid Surti, who gave birth to a character called Bhadur in 1976 wearing kurta
and jeans. Raj comics too (4) $\qquad$ into this sphere with their (5) toons Nagraj,
Tiranga and Shakti together called Brahman Rakshak (protectors of the universe).
SubQuestion No : 25
Q. 25 Select the most appropriate option to fill in blank number 5 .

Ans
$X$ 1. noted
X 2. influential
3. famous

X 4 . good

| Exam Date | $13 / 12 / 2022$ |
| :--- | :--- |
| Exam Time | $11: 45$ AM - 12:45 PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

## Section : General Intelligence and Reasoning

Q. 1 Which two numbers from amongst the given options should be interchanged to make
the given equation correct?
$168 \div 4+216 \div(78 \times 1-8)=14$
Ans

1. 78 and 216
2. 14 and 8
3. 78 and 14
4. 216 and 168
Q. 2 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Bees: Swarm :: Monkeys : ?
Ans
5. Troop
< 2. Colony
6. Shoal
7. Herd
Q. 3 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Calf : Cattle :: Foal : ?
Ans
X 1. Elephant
8. Horse
9. Deer
10. Kangaroo
Q. 4 Which figure should replace the question mark (?) if the series were to be continued?


Ans

Q. 5 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 6 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(9,343,2)$
$(12,729,3)$
Ans $\times 1 .(98,49,92)$
< 2. $(13,4,89)$
(3. $(12,66,20)$
4. $(12,125,7)$
Q. 7 In a certain code language, 'ORGANIZATION' is written as 'ORGANINOITAZ', 'MANAGEMENT' is written as 'MANAGTNEME'. How will 'RESOURCE' be written in that language?
Ans
X 1. RESOECUR
X 2. RESOCERU
X 3. RESEOCRU
4. RESOECRU

## Q. 8 Which number will replace the question mark (?) in the following series?

12, 25, 51, 103, ?, 415, 831
Ans

1. 208
2. 207
3. 206
4. 200
Q. 9 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $Z$ are $X$.
II. Some W are Z.

Conclusions:
I. Some $X$ are not W.
II. Some $X$ are not $Z$.

Ans
X 1. Only conclusion I follows
X 2. Only conclusion II follows
X 3. Both conclusions I and II follows

* 4. Neither conclusion follows
Q. 10 In a certain code language, 'ANNUAL' is written as 'CPRYGR' and 'AMOUNT' is written as 'COSYTZ'. How will 'AGENDA' be written in that language?
Ans
X 1. CIIRHE

2. CIIRJG
3. CIKTJG
4. CIGPFC
Q. 11 Select the option figure in which the given figure ( X ) is embedded as its part (rotation is NOT allowed).
(x)


Ans
$\times 1$

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 12 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans

1. FHG

X 2. WZY
X 3.LON
$\times 4$. ADC
Q. 13 If $P \times Q$ means that $P$ is the mother of $Q, P+Q$ means that $P$ is the father of $Q, P \div Q$ means that $P$ is the sister of $Q$, then which of the following expression shows that $A$ is the maternal aunt of $C$ ?

Ans

1. $A \div B+C$

- 2. $C \times B \div A$

3. $A \div B \times C$
4. $B \div C \times A$
Q. 14 Which of the following letter-clusters will replace the question mark (?) in the given series?
TYG, ?, PSM, NPP, LMS
Ans
X 1. SVK
X 2. suJ
3.RVJ
4.RUK
Q. 15 A - $B$ means ' $A$ is the mother of $B$ ' $A$ * $B$ means ' $A$ is the husband of $B$ ' $A \% B$ means ' $A$ is the brother of $B$ '
$A \$ B$ means ' $A$ is the sister of $B$ '
If $I^{*} J-K$ \% $L \$ M^{*} N$, then how is I related to $N$ ?
Ans
5. Brother-in-law
6. Father-in-law
7. Brother
8. Father
Q. 16 Select the option figure that is embedded in the given figure. (Rotation is not allowed).


Ans
1.

2.

$\times 3$.

4.
Q. 17 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1- Thresh
2- Threadbare
3- Thrice
4- Threw
5- Threat
Ans

1. $2,4,5,1,3$
2. $2,5,1,4,3$
3. $2,5,4,1,3$
4. $2,1,5,4,3$
Q. 18 Select the correct combination of mathematical signs to sequentially replace the \& signs, and to balance the given equation. $[\{(42 \& 26) \&(12 \& 2)\} \&(4 \& 5)] \& 5 \& 10$
Ans


人2. $\times,-,+, \times, \div, \times,=$
X $3 .-,+, x, \times, \div, x,=$
4.,,$-+ \times, \div, \times, \times=$
Q. 19 Three Statements are given followed by Three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

## Statements:

Some mobiles are flat.
All flats are TVs.
Some TVs are plastic.
Conclusions:
. Some mobiles are TVs.
II. Some flats are plastic.
III. All plastic are TVs.

Ans

1. All conclusions follow.
2. Only conclusion I follows.
3. Only conclusion III follows.
4. Only conclusion II follows.
Q. 20 By Interchanging the given two numbers which of the following equation will be not correct?
7 and 4
Ans
5. $8 \div 6 \times 9+7-4=12$
$2.7 \times 8+4-6 \div 3=37$
$3.9-4 \times 3+6 \times 7 \div 1=12$
$4.4 \times 8-9 \div 3+7=57$
Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(3,16,6)$
$(4,22,6)$
Ans
X 1. $(12,50,5)$
6. $(9,70,8)$

X 3. $(7,43,6)$
X4. $(9,10,11)$
Q. 22 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
TTDS, VMLP, XFTM, ZYBJ, ?
Ans
X 1. NDMO
$\times$ 2. ттмо

- 3. BQRT

4. BRJG
Q. 23 Six letters T, P, K, G, R and U are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the letter on the face opposite to K .

Q. 24 Select the set in which the numbers are related in the same way as are the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(4,7,165)$
$(14,26,600)$
X 1. $(23,29,567)$
X 2. $(5,19,225)$
5. $(3,6,135)$

X 4. $(17,6,325)$
Q. 25 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

- $1.22-40$

X 2. $24-47$
$\times 3.18-35$
4. 16-31

## Section: General Awareness

Q. 1 The Nobel Prize in Chemistry 1951 was awarded jointly to Edwin Mattison McMillan and $\qquad$ for their discoveries in the chemistry of the transuranium elements
Ans

- 1. Jacob Berzelius
$X$ 2. Leon Jouhaux

3. Glenn T Seaborg

X 4. Albert Schweitzer
Q. 2 The folk dance Hojagiri originated and is associated with which part of India?

Ans $\times 1$. South
2. North-East
$X$ 3. North
X 4. West

## Q. 3 Which of the following states has maximum literacy rate according to census 2011?

Ans

- 1. Mizoram
$\times 2$. Arunachal Pradesh
X 3. Rajasthan
X 4. Bihar
Q. 4 In hockey, what is the meaning if the umpire signals by pointing both arms horizontally toward the centre of the field?

Ans

1. Goal scored
2. Timing
$\times$ 3. Ball out of play
3. Bully
Q. 5 Who among the following revolutionaries was associated with Swadesh Bandhav Samiti?

Ans

1. Chandrasekhar Azad
2. Bhagat Singh

X 3. Rajguru
4. Ashwini Kumar Dutta
Q. 6 Based on Macaulay's Minute, the English Education Act was introduced in $\qquad$ -

Ans
X 1.1875

- 2.1835

X 3.1855
$\times 4.1815$
Q. 7 Which ministry organized 'Nari Shakti of North East' on the occasion of International Women's Day 2022?
Ans 1. Ministry of Development of North Eastern Region
X 2. Ministry of Tribal Affairs
3. Ministry of Women and Child Development
4. Ministry of Social Justice and Empowerment

## Q. 8 Mrinalini Sarabhai was awarded which of the following awards in 1992?

Ans
X 1. Padma Shri
2. Padma Bhushan
$X$ 3. Kalidas Samman
X 4. Padma Vibhushan
Q. 9 The $\qquad$ and $\qquad$ determine the corridor for the daily movement in the weighted average call money rate.
Ans

1. Reverse repo, discount rate
2. Marginal standing facility, Reverse repo rate
$X$ 3. Liquidity adjustment facility, repo rate
X 4. Bank rate, repo rate
Question ID: $\mathbf{2 6 4 3 3 0 1 0 5 3 7 8}$
Status : Not Answered
Chosen Option: --
Q. 10 Which of the following countries lies in the east of India?

Ans
X 1. Sri-Lanka
X 2. Nepal
3. Bangladesh
4. Afghanistan
Q. 11 Which freedom is considered as the 'Hallmark of Democracy'?

Ans
< 1. Right against exploitation
2. Right to freedom of religion
$\times 3$. Freedom of assembly
X 4. Freedom of speech and expression
Q. 12 Which state government has launched the Kaushalya Matritva Yojana in September 2022?
Ans

1. Chhattisgarh
2. Odisha

X 3. Himachal Pradesh
4. Kerala
Q. 13 Who among the following was popularly called the 'Australian Mother of Kathakali'?

Ans $\mathbf{X}$ 1. Margot Fonteyn
X 2. Anna Pavlova
X 3. Yelena Andreyanova
4. Louise Lightfoot
Q. 14 Xuan Zang and other pilgrims spent time studying in Nalanda, the most famous Buddhist monastery, located in which of the following Indian state?

Ans

1. Odisha
2. Bengal
3. Bihar
4. Sikkim
Q. 15 Which of the following is NOT correct about the eligibility criteria for being elected as Vice President of India?

Ans

1. He/She should be a citizen of India.
2. He/She should have completed 35 years of age.
3. He/She should not hold any office of profit under the Union Government/state
government or any subordinate local authority.
4. He/She should be qualified for election as a member of the Lok Sabha.

## Q. 16 Baking soda is

$\qquad$ .
Ans $\quad \times 1$. sodium carbonate
$X$ 2. sodium sulphate
3. sodium hydrogencarbonate
4. sodium hydroxide
Q. 17 Which of the following is NOT 'The Great Lakes' of North America?

Ans
$X$ 1. Superior
$X 2$. Huron
$\times$ 3. Erie
4. Victoria
Q. 18 Which of the following is a plant tissue?
I. Meristematic tissue
II. Permanent tissue

Ans

1. Only II
2. Both I and II
3. Neither I nor II
4. Only I
Q. 19 In Triple Jump, white flag indicates:

Ans

1. trail is valid
$X$ 2. trail is failure
$X 3$. trail with wind support
$\times$ 4. allow to trial
Q. 20 Which of the following substance has a pH value of about 14?

Ans
X 1. Blood
2. Sodium hydroxide

X 3. Milk of magnesia
4. Lemon Juice
Q. 21 Which of the following folk dances does NOT belong to the state of Mizoram?

Ans

1. Munari
2. Chailam
3. Zangtalam
4. Cheraw

## Q. 22 Which crop grows best on black soil?

Ans

1. Cotton
2. Coffee
$\times$ 3. Maize
3. Millets
Q. 23 Who has been appointed as Secretary to President Droupadi Murmu in August 2022?

Ans
X 1. Ranjit Rath
2. Rajesh Verma
< 3. Suresh N Patel
4. Santosh Iyer
Q. 24 Identify the freedom fighter who, as a child, hated going to school and found it suffocating and oppressive.
Ans
X 1. Mahatma Gandhi
$\times$ 2. Jawaharlal Nehru3. Jyotiba Phule
4. Rabindranath Tagore
Q. 25 Choose the correct pair from the following options.

Ans

1. Sixth Five-Year Plan - Rajiv Gandhi
2. Fifth Five-Year Plan - Indira Gandhi
3. Fourth Five-Year Plan - Jawaharlal Nehru

X 4. Seventh Five-Year Plan - PV Narasimha Rao

Section : Quantitative Aptitude
Q. 1

If $\mathrm{a}=45^{\circ}$ and $\mathrm{b}=15^{\circ}$, what is the value of $\frac{\cos (\mathrm{a}-\mathrm{b})-\cos (\mathrm{a}+\mathrm{b})}{\cos (\mathrm{a}-\mathrm{b})+\cos (\mathrm{a}+\mathrm{b})}$ ?
Ans
X1. $2-2 \sqrt{2}$
X2. $3-\sqrt{6}$
X 3. $3-\sqrt{2}$
4. $2-\sqrt{3}$
Q. 2 The table given below shows the sales turnover of 5 different companies.

| Company | Sales turnover |
| :---: | :---: |
| A | 120 |
| B | 80 |
| C | 200 |
| D | 250 |
| E | 150 |

The sales turnover of company $\mathbf{A}$ is what percent of the sales turnover of company $\mathbf{C}$ ?
Ans

- 1.60 percent

X 2.50 percent
X 3.40 percent
X 4.75 percent
Q. 3 A triangle and a parallelogram have the same base 28 cm and the same area. If the height of the parallelogram is 12 cm , then find the length of the altitude of the triangle.

Ans
X 1.28 cm
X 2.23 cm
3. 24 cm
4.21 cm
Q. 4 Choose the option in which the numbers are in correct ascending order.

Ans

1. $\frac{4}{5}, \frac{2}{3}, \frac{1}{11}$ and $\frac{2}{9}$
2. $\frac{1}{11}, \frac{2}{9}, \frac{2}{3}$ and $\frac{4}{5}$
×3. $\frac{2}{9}, \frac{1}{11}, \frac{4}{5}$ and $\frac{2}{3}$
3. $\frac{2}{3}, \frac{4}{5}, \frac{1}{11}$ and $\frac{2}{9}$
Q. 5 The length of the chord of a circle is 24 cm , and the perpendicular distance between the centre and the chord is 5 cm . The radius of the circle is:
Ans
$X 1.10 \mathrm{~cm}$
4. 13 cm

X 3.12 cm
X. 24 cm
Q. 6 A student walked 6 km from his house to reach the metro station, then boarded a metro that has an average speed of $60 \mathrm{~km} / \mathrm{h}$, and reached the destination. It took 3 hours for the entire journey. If the average speed of the entire journey is $\mathbf{3 2} \mathbf{~ k m} / \mathrm{h}$, then the speed of walking is $\qquad$ -.
Ans
Х $1.1 .5 \mathrm{~km} / \mathrm{h}$
$2.3 \mathrm{~km} / \mathrm{h}$
3. $2 \mathrm{~km} / \mathrm{h}$
$4.4 \mathrm{~km} / \mathrm{h}$

Status : Not Answered
Chosen Option : --
Q. 7 A, B and C can all together do a piece of work in 10 days, in which $B$ takes 3 times as long as $A$ and $C$ together to do the work. In how many days can $B$ alone do the work?
Ans
$\times 1.50$ days
2. 40 days
3. 10 days
4. 15 days
Q. 8 A sum of Rs. 10 is lent by a child to his friend to be returned in 11 monthly instalments of Rs. 1 each, the interest being simple. The rate of interest is:
Ans

1. $11 \frac{9}{11} \%$
2. $21 \frac{9}{11} \%$
3. $10 \frac{2}{11} \%$
4. $9 \frac{1}{11} \%$
Q. 9 The sum of two numbers is 680 . If the bigger number is decreased by $15 \%$ and the smaller number is increased by $15 \%$, then the resultant numbers are equal. Find the smaller number.
Ans
$\times 1.307$
< 2.285
-3. 291
5. 304
Q. 10 If $a-b=8$ and $a b=9$, then the value of $a+b$ is $\qquad$ -

Ans $\times 1 . \pm 9$
$\times 2 . \pm 7$
X $3 . \pm 8$
4. $\pm 10$
Q. 11 Select the INCORRECT statement with respect to the properties of a circle.

Ans $\quad \times 1$. Two tangents drawn at the end of the diameter of a circle are parallel.
$X$ 2. The radius drawn perpendicular to a chord bisects the chord.
$\times 3$. The diameter of a circle is the longest chord of a circle.
4. The perpendicular distance from the centre of a circle increases when the length of a chord increases.
Q. 12 Sita gets a discount of $20 \%$ on $₹ 3,000$ juicer mixer machine. Since she pays cash, she gets additional $5 \%$ discount too. How much does she pay?

Ans

1. ₹2,280

- 2. ₹2,276

X 3. ₹2,282
4. ₹2,278
Q. 13 What is the value of $\operatorname{cosec} 15^{\circ} \sec 15^{\circ}$ ?

Ans
$\times 1.0 .5$
2. 4
$\times 3.2$
4.1
Q. 14 The pie chart given below shows the production of 6 different factories. The total production of all these 6 factories is 15000 . The production of a particular factory is shown as a percent of total production of all these 6 factories.

F6


J1 = The value of average production of factory F3 and F6.
$\mathrm{J} 2=$ The difference between the production of factory F1 and F4.
What is the value of $(\mathrm{J} 2-\mathrm{J} 1)$ ?
Ans
$\times 1.385$
$\times 2.395$
3.375
X. 305
Q. 15 The HCF of two numbers is 17 and the other two factors of their LCM are 11 and 19.

The smaller of the two numbers is:
Ans
X 1.209
2. 187
$\times 3.323$
4.306
Q. $16 \frac{\cos A}{1-\tan A}+\frac{\sin A}{1-\cot A}=$ $\qquad$ .

Ans

1. $\tan A-\cot A$
$\times 2 . \tan A+\cot A$
X 3. $\sin A-\cos A$
2. $\sin A+\cos A$
Q. 17 If $2 p+q=19$ and $8 p^{3}+q^{3}=361$, then find the value of $p q$.

Ans $\times 1.56$
X 2.59
$\times 3.58$
4.57
Q. 18 Which of the following statement is correct?
I. If $x=12, y=-2$ and $z=-10$, then $x^{3}+y^{3}+z^{3}=720$
II. If $x+y=48$ and $4 x y=128$, then s the value of $4 x^{2}$
$+4 y^{2}$ is 8960
Ans
X 1. Neither I nor II
X 2. Only I
3. Both I and II

X 4. Only II
Q. 19 A girl purchases 9 mangoes for Rs. 90 and sells 10 mangoes for Rs.95. Find the gain or loss percentage.
Ans
X 1.2.5\% loss
2. $5 \%$ loss
3. $2.5 \%$ gain
4. $5 \%$ gain
Q. 20 In the following bar diagram, there are $5 \operatorname{companies} \mathrm{~A}, \mathrm{~B}, \mathrm{C}, \mathrm{D}$ and E . The diagram shows the demand of a product and its production the above five companies.


If $\mathrm{x} \%$ of the demand of the product by Company C is equal to that of the Company B , then find the value of x .
Ans

1. 24

- 2.22
$\times 3.23$
4.21
Q. 21 A four-digit pin, say abcd, of a lock has different non-zero digits. The digits satisfy $\mathbf{b}=$ $2 \mathrm{a}, \mathrm{c}=2 \mathrm{~b}, \mathrm{~d}=2 \mathrm{c}$. The pin is divisible by $\qquad$ .
Ans
X 1.2,3,5

2. 2, 3, 7
3. $2,3,13$
4. 2, 3, 11
Q. 22 A horse is grazing in a field. It is tied to a pole with a rope of length 6 m . The horse moves from point $A$ to point $B$ making an arch with an angle of $70^{\circ}$. Find the area of the sector grazed by the horse.
Ans
$\times 2.21 \mathrm{~m}$
$\times 3.23 \mathrm{~m}$
X. 20 m
Q. $23 \triangle A B C$ and $\triangle D E F$ are similar triangles and their areas are $49 \mathrm{~cm}^{2}$ and $144 \mathrm{~cm}^{2}$ respectively. If $E F=16.80 \mathrm{~cm}$, then find BC .
Ans
$X 1.7 .5 \mathrm{~cm}$
5. 9.8 cm
$\times 3.8 .7 \mathrm{~cm}$
4.11 .4 cm
Q. 24 A can of water and milk mixture contains $60 \%$ milk. A part of this mixture is replaced by another mixture containing $50 \%$ milk and the percentage of milk was found to be $52 \%$. The quantity of mixture replaced is:

Ans

1. $\frac{1}{5}$
2. $\frac{3}{5}$
3. $\frac{4}{5}$
4. $\frac{2}{5}$


In which State UT is there the smallest number of owners of the BSNL Sim-card?
Ans
$X$ 1. Punjab
$\times 2$. UP
3. Delhi

X 4. Bihar

Section: English Comprehension
Q. 1 Select the option that can be used as a one-word substitute for the given group of words.

A poll taken of voters leaving the voting place that is usually used for predicting the winners.
Ans

1. Consensus
( 2. Results
$\times$ 3. Census
2. Exit poll
Q. 2 Select the most appropriate ANTONYM of the given word.

## Intense

Ans
X 1. Thrifty
2. Moderate
$\times 3$. Stately
X 4. Lavish
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Usually, Ratheesh hasn't / take part in these types / of events because of / his hectic schedule.
Ans
X 1. take part in these types
2. of events because of
3. his hectic schedule
4. Usually, Ratheesh hasn't
Q. 4 Select the most appropriate option to fill in the blank.

There was a $\qquad$ accident last night and the inspector on deputy was unable to raise help when she called from the mountains.
Ans
$X 1$. goofy
X 2. gloomy
3. serious
$\times 4$. harsh
Q. 5 Select the most appropriate synonym of the given word. Distant
Ans
$X$ 1. Farsighted
2. Faraway
$\times$ 3. Futuristic
X 4. Forward
Q. 6 Select the most appropriate option that can substitute the underlined segment in the given sentence.
They decided to have a meeting to discuss about the project.
Ans
$X$ 1. to discuss through the project
2. to discuss the project
$X$ 3. to discuss over the project
4. to discuss beyond the project
Q. 7 Select the option that can be used as a one-word substitute for the given group of words.

A formal statement testifying to someone's character and qualifications
Ans
$\times 1$. Document
2. Affidavit
3. Testimonial
4. Manuscript
Q. 8 Select the INCORRECTLY spelt word in the following sentence.

The poor woman is in excruciating mental anguish, and her loved ones appear to have
assisted in exarcerbating her traumatic experiences.
Ans
<1. anguish
(2. excruciating
3. exarcerbating
4. traumatic
Q. 9 Select the most appropriate option to fill in the blank.

As there were reports of manipulation of scores in the previous exams, the aspirants demanded a process to ensure $\qquad$ assessment for selection.

Ans
X 1. will o' the wisp
$\times 2$. hole and corner3. well off
4. fair and square
Q. 10 Select the most appropriate option to fill in the blank.

The party was a $\qquad$ hour for everyone, except Mukesh.
Ans
$\times 1$. welcome
2. happy
3. dry
4. stable

## Q. 11 Select the option that expresses the given sentence in passive voice.

Suman was taking a nap
Ans

1. A nap was being taken by Suman.

X 2. A nap has been taken by Suman.
3. A nap is being taken by Suman.
4. A nap was taken by Suman.
Q. 12 Select the most appropriate meaning of the given idiom. Hold water

Ans
X 1. A diluted argument
X 2. Appear to be of no value3. Stop emphasising a point
4. Appear to be valid or reasonable
Q. 13 Select the INCORRECTLY spelt word in the following sentence.

Rajib's research aims to identify the strings that connect man and nature in order to provide a comprehensive examination and asessment of a variety of ecological issues.
Ans

1. strings
2. ecological
3. asessment
<4. comprehensive
Q. 14 Select the most appropriate ANTONYM of the underlined word.

The concert sounded was in cacophony with every instrument playing in synchronisation.
Ans

1. harmony
< 2. alimony
X 3. bedlam
2. euphony
Q. 15 Rearrange the parts of the sentence in correct order.

Back in April
P. an afternoon walking around
Q. the Tillman Sand Ridge Heritage Preserve
R. I was visiting family in South Carolina
S. and my brother and I spent

Ans

- 1. RSPQ
(2. QPRS

X 3. PQRS
X4.RQPS
Q. 16 Select the appropriate adverb for the underlined word in the sentence.

I complete forgot her birthday, and I don't know how to make it up to her.
Ans
X 1. completeness
$\times 2$. completed
X 3 completing
4. completely

Q. 17 Select the correct direct form of the given sentence. My teacher forbids to trust one's relatives.

Ans

1. My teacher says, "Never trust your relatives."
2. My teacher says, "Never trust my relatives."
3. My teacher says, "Never trusted your relatives."
4. My teacher said "Never trust your relatives."
Q. 18 Select the most appropriate ANTONYM of the given word.

## Repulsive

Ans

1. Steadfast
2. Superfluous
3. Pleasant
4. Hopeless

## Q. 19 Select the correct passive voice form for the given sentence.

Sudha was writing a letter to her husband.
Ans $\quad \times 1$. A letter were been written by Sudha to her husband.
X 2. A letter were being written by Sudha to her husband.
X 3. A letter was been written by Sudha to her husband.

* 4. A letter was being written by Sudha to her husband.
Q. 20 Select the option that can be used as a one-word substitute for the given group of words.

Something that is very small/little
Ans

1. Few
2. Tiny
(3. Thin
3. Slender

## 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 great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) ___ with wider streets and improved water supplies. New buildings were (5)__ using bricks instead of wood.

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

Ans
$X$ 1. broke for
2. broke in
3. broke out
$X$ 4. broke at

## 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 great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) _ with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

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

Ans 1. destroyed
$\times 2$. smashed
$\times 3$. shattered
4. demolished

## 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 great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around $1,00,000$ people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) $\qquad$ with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

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

Ans
$X 1$. glided
2. carried
3. swept
4. pulled

## 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 great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the crowded streets and wooden houses. However, after the fire, London was (4) __ with wider streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

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

Ans 1. rebuilt
$X 2$ innovated
$X$ 3. modelled
4. restored

## 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 great fire (1) $\qquad$ in London in 1666 which (2) $\qquad$ the city and made around 1,00,000 people homeless. This fire is said to have begun in a pudding lane. It (3) $\qquad$ through the with wider crowded streets and wooden houses. However, after the fire, London was (4) streets and improved water supplies. New buildings were (5) $\qquad$ using bricks instead of wood.

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

Ans $\times 1$. organised
2. erected

X 3. fabricated
$\times 4$. located

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

Section: General Intelligence and Reasoning
Q. 1 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 1 '.


Ans
$\times 1.4$
$\times 2.3$
3. 2
4. 6
Q. 2 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. Some $P$ are $K$.
II. No $K$ is $T$.

Conclusion:
I. All P are T.
II. All $T$ are $K$.
III. Some $P$ are not T.

Ans $\quad \times 1$. Only conclusion II follows
2. Only conclusion III follows
$X$ 3. All conclusion follows
4. Both conclusions II and III follows
Q. 3 In a certain code language, ' $F R O S T$ ' is written as ' 156 ' and 'CANDLE' is written as ' 78 '. How will 'SCREAM' be written in that language?

Ans

1. 115
2. 89
3. 118
4. 59
Q. 4 Study the given pattern carefully and select the number that can replace the question mark (?) in it.
First row - 12, 7, 32
Second row - 17, 13, 33
Third row-14, 8, ?
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans
$\checkmark 1.38$
$\times 2.35$
$\times 3.43$
5. 42
Q. $5 P+Q$ means ' $P$ is the father of $Q$ ' $P-Q$ means ' $P$ is the mother of $Q$ ' $P$ * $Q$ means ' $P$ is the sister of $Q$ '
$\mathbf{P} \% \mathbf{Q}$ means ' $P$ is the brother of $Q$ '
If $A-B \% C$ * $D+E$, then how is $A$ related to $E$ ?
Ans
X 1. Mother
6. Father's sister
7. Sister
8. Father's mother
Q. 6 By Interchanging the given two numbers which of the following equation will be not correct?
9 and 6
Ans
$1.7+6 \times 4 \div 9-8=5$
X2. $6 \times 8-9 \div 3+5=75$
-3. $9 \times 7+4 \div 1-6=38$
$4.7 \times 6 \div 3+9-8=19$
Q. 7 Which of the following calendars will be the same as the calendar for the year 2003?

Ans

- 1.2014

X 2.2013
$\times 3.2012$
+4.2011
Q. 8 Which of the following letter clusters will replace the question mark (?) and complete the following letter cluster series?
DW, FU, HS, JQ, LO, ?
Ans
X 1.NN
$\times 2$. MN
3. NM
$\times 4$. NO
Q. 9 If $\mathrm{S}-\mathrm{T}$ means that S is the mother of $\mathrm{T}, \mathrm{S} \times \mathrm{T}$ means that S is the father of $\mathrm{T}, \mathrm{S}+\mathrm{T}$ means that $S$ is the sister of $T$, then which of the following expression shows that $P$ is the mother of $R$ ?
Ans
$X 1 . Q-P+R$
2. $P-Q+R$

X 3. $\mathrm{P} \times \mathrm{Q}+\mathrm{R}$
X4.R+Q-P
Q. 10 Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.


Ans




Q. 11 Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)
Flock : Birds :: Swarm : ?
Ans
X 1. Rain
2. Bees
3. Trees
$\times 4$. Flowers
Q. 12 Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
8 : 48 :: ? : 143 :: 15 : 195
Ans

1. 13

X 2.17
X 3.19
4. 11
Q. 13 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:

- All toys are Lego.
- No block is Lego.
- Some puzzles are blocks.

Conclusions:
I. Some Lego are puzzles.
II. No Lego is a block.
III. Some toys are blocks.

Ans

1. Only conclusion II follows

人 2. Only conclusion I follows
X 3. Only conclusion I and II follow
X 4. Only conclusion I and III follow
Q. 14 Select the set in which the numbers are related in the same way as are the numbers of the following set
(5, 2, 23)
$(6,2,34)$
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
Ans
X $1 .(3,3,3)$
X 2. $(3,2,9)$
X $3 .(3,5,11)$
4. $(3,2,7)$
Q. 15 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)
Drama : Stage :: Trial : ?
Ans

1. Police station
$\times$ 2. Jail
X 3. Platform
2. Court
Q. 16 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans

1. OQS
$\times$ 2. JLN
2. HJL
3. MOP
Q. 17 Select the figure that will replace the question mark (?) in the following figure series.


Ans
$\times 1$.

$\times 4$.

Q. 18 In a certain code language, 'YOU' is written as ' 71 ' and ' TOO ' is written as ' 60 '. How will 'SIT' be written in that language?
Ans
$\times 1.90$
$\times 2.96$
3.58
$\times 4.94$
Q.19 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, CTFZ, ELIV, GDLR,?
Ans
X 1. ITOQ
X 2. QMQR
X $3 . \mathrm{IMOQ}$
4. IVON
Q. 20 In the following question, four number pairs are given. In each pair the number on left side of $(-)$ is related to the number of the right side of $(-)$ with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans
X 1.10-100
2. 8-62
3. 6-36
4. 4-16
Q. 21 Which of the following numbers will replace the question mark (?) in the given series?

31, ?, 40, 49, 61, 76
Ans
$\times 1.36$
2. 34
3. 35
4. 37
Q. 22 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans
1.

$\times 2$.

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


Ans
1.

$\checkmark 2$.

$\times 3$.

$\times 4$.
4.

Q. 24 By Interchanging the given two numbers which of the following equation will be correct?
2 and 8
Ans
(1.8 $8 \div 1+4 \times 2-3=18$

人2.7 $\times 2+6 \div 3-8=60$

- $3.2 \times 4-8+6 \div 3=33$

4. $8 \times 4+6-2 \div 1=6$
Q. 25 Which two signs should be interchanged to make the given equation correct?

95 * $5+19 \div 2-21=36$
Ans

1. $\div$ and *
2.     + and -
$3 . \div$ and -
3.     + and *

Section: General Awareness
Q. 1 $\qquad$ is the only continent through which the tropic of cancer, the equator and the tropic of capricorn passes.
Ans
X 1. North America
2. Africa
3. Europe
$\times 4$. Asia

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

Ans $\quad \times 1$. It controls the subordinate courts within its jurisdiction.
2. It has the power of judicial review.
3. It provides advisory opinion to the President of India.
4. It has writ jurisdiction.
Question ID: $\mathbf{2 6 4 3 3 0 6 9 8 9 6}$
Status : Not Answered
Chosen Option: --
Q. 3 Who released a special stamp entitled 'Wheat Revolution' in July 1968?

Ans $\times 1$. Mahatma Gandhi
X 2. Jawaharlal Nehru
3. Indira Gandhi
4. Motilal Nehru
Q. 4 Who among the following ruled in India between 1266 and $1287 ?$

Ans
X 1. Qutub-ud-din-Aybak
$X$ 2. Aram Shah
X 3. Shams-ud-din-Iltutmish
4. Ghiyasuddin Balban
Q. 5 Which of the following is NOT mentioned as a Fundamental Right in the Constitution of India?
Ans
$X$ 1. Right to education
2. Right to property
$\times$ 3. Right to freedom
$X$ 4. Right against exploitation
Question ID: $\mathbf{2 6 4 3 3 0 8 6 7 9 7}$
Status : Answered
Chosen Option: $\mathbf{2}$
Q. 6 In February 2022, Maharashtra government announced 'Hope Express' initiative to
$\qquad$
Ans

1. prevent cancer
$\times 2$. improve drainage system
X 3. manage industrial waste
< 4. improve air quality

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

Ans
X 1. Radha Reddy
2. Aparna Satheesan
$\times$ 3. Usha Srinivasan
4. Deepa Sashindran

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

Ans $\times 1$. Lamb
X 2. Eggs
3. Grass
4. Chicken

## Q. 9 Yellow card in badminton indicates:

Ans

1. fault for misconduct
2. suspension for misconduct
3. warning for misconduct
4. disqualified for misconduct
Q. 10 The national Archives of India came up in the $\qquad$ .
Ans $\times 1.1930$ s
$\times 2.1910$ s
5. 1920s
6. 1900s
Q. 11 Personal disposable income (PDI) can be defined as $\qquad$ -.
Ans $\times 1$. PI + Personal tax payments +Non-tax payments
X 2. PI + Personal tax payments - Non-tax payments
7. PI - Personal tax payments - Non-tax payments
8. PI - Personal tax payments + Non-tax payments
Q. 12 In India the 1st census was held in the year $\qquad$ .
Ans
9. 1872
10. 1860

X 3.1900
4. 1920
Q. 13 The Kunbi dance is performed by the tribal community of $\qquad$ .
Ans $\times$ 1. Sikkim
$X$ 2. Tamil Nadu
X 3. Uttar Pradesh
4. Goa
Q. 14 A cyclone is known by different names in different parts of the world. In Philippines it is called as $\qquad$ .

Ans

1. willy-willy
2. hurricane
3. typhoon
4. mango shower
Q. 15 Who among the following defeated Mughal emperor Humayun at Chausa?

Ans
$X$ 1. Mirza Hakim
X 2. Safavid Shah
3. Sher Khan
4. Mirza Kamran
Question ID: $\mathbf{2 6 4 3 3 0 1 0 5 4 3 4}$
Status: Answered
Chosen Option : $\mathbf{3}$
Q. 16 Prime Minister Narendra Modi said, "Seema Darshan Project adds a new dimension to the tourism sector". This project will boost tourism in $\qquad$ -
Ans

1. Gujarat
2. Uttar Pradesh
$X$ 3. Rajasthan
X 4. Jammu and Kashmir
$\qquad$ has become the first city in the country to get a processed steel slag (industrial
waste) road.
Ans 1. Surat
$X$ 2. Chennai
3. Kanpur
4. Shimla

Status : Not Answered
Q. 18 Which country hosted the first ever Commonwealth Games in 1930?

Ans $\times 1$. Australia
$X$ 2. New Zealand
$X$ 3. England
4. Canada
Q. 19 The theory of plate tectonics proposes that the earth's lithosphere is divided into
$\qquad$ major and some minor plates.
Ans

- 1.7
$\times 2.6$
$\times 3.12$
X4. 16


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

Ans $\quad \times 1$. The build-up of hydrochloric acid in our muscles during sudden activity causes cramps.
$X$ 2. The pepsin enzyme releases chemicals that lead to cramps.
$X$ 3. The oxygen molecules breaks down.
4. The build-up of lactic acid in our muscles during sudden activity causes cramps.
Q. 21 Match the elements in column A with the element group they belong to, in column B

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

Ans

1. i-a, ii-d, iii-b, iv-c
2. i-a, ii-b, iii-c, iv-d
3. i-a, iiic, iii-b, iv-d
4. i-d, ii-a, iii-b, iv-c
Q. 22 Abdul Karim Khan and Abdul Wahid Khan were the founders of the $\qquad$ gharana.
Ans
X 1. Jaipur - Atrauli
5. Gwalior
$\times$ 3. Agra
6. Kirana

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

 'Bharatanatyam'?Ans

1. Yamini Krishnamurthy
2. Dr Padma Subrahmanyam

X 3. Rukmini Devi Arundale
X 4. Chinta Ravi Bala Krishna
Question ID : 26433082129
Status: Answered
Chosen Option : 3
Q. 24 Puhar or Kaveripattinam, was the port of which of the following dynasty?

Ans
$\times 1$. Cheras
2. Cholas

X 3. Pandyas
4. Vakatakas

## Q. 25 National Dairy Research Institute is located at:

Ans

1. Karnal
2. Anand

X 3. Lucknow
4. Palampur

## Section : Quantitative Aptitude

Q. 1 The HCF of three numbers $\mathbf{7 2}, 108$ and 2010 is:

Ans
$\times 1.18$
2. 6
3. 12
4.5
Q. 2 If $\sec \theta+\frac{1}{\cos \theta}=2$, find the value of $\sec ^{55} \theta+\frac{1}{\sec ^{55} \theta}$.

Ans
-1.2
$\times 2.0$
3.1
-4.55
Q. 3 The following bar chat shows the export of a certain commodity P in crore rupees between 2014 and 2020.


For how many years, there was less export of P than the average export of P ?
Ans
$\times 1.2$
$\times 2.1$
$\times 3.4$

- 4.3
Q. 4 The cost price of an article is ₹ 800 . After allowing a discount of $10 \%$, a gain of $\mathbf{1 2 . 5 \%}$ was made. The marked price of the article is:
Ans
X 1. ₹ 1,300
- 2. ₹1,200

3. ₹ 1,000
4. ₹ 1,100
Q. 5 The side of an equilateral triangle is 9 cm . What is the radius of the circle circumscribing this equilateral triangle?

Ans
$\times 1.2 \sqrt{3} \mathrm{~cm}$
2. $5 \sqrt{3} \mathrm{~cm}$
3. $4 \sqrt{3}$ cm
4. $3 \sqrt{3} \mathrm{~cm}$
Q. 6 Shiva's monthly salary is Rs. 75,000 . He spends Rs. 12,000 on household items, Rs. 14,000 on LIC and mutual funds, Rs.15,000 on his children's education, and keeps Rs. 10,000 for miscellaneous expenses. His savings are Rs.21,000 per month and he donates the rest of the amount to an orphanage. The percentage of his income that he donates is:

Ans
$\times 1.3 \%$
$\times 2.6 \%$3. $8 \%$
4. $4 \%$
Q. 7 The following line graph displays the ratio of exports to imports (in terms of money in ₹ crores) of company A
from 2010 to 2015.
Study the graph carefully and answer the question based on the given line graph.


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

1. Four
2. Two
$\times$ 3. Six
X 4. Three
Q. 8 If $\tan 40^{\circ}=\alpha$, then find $\frac{\tan 320^{\circ}-\tan 310^{\circ}}{1+\tan 320^{\circ} \cdot \tan 310^{\circ}}$.

Ans
$X_{1} \cdot \frac{1-\alpha^{2}}{\alpha}$
2. $\frac{1+\alpha^{2}}{2 \alpha}$
-3. $\frac{1-\alpha^{2}}{2 \alpha}$
X4. $\frac{1+\alpha^{2}}{\alpha}$
Q. 9 The table given below shows the foreign trade by two countries in 5 different years.

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

What is the total foreign trade by country M in all the 5 years?
Ans
. 1.1010
2. 1215
3. 505
4. 1005
Q. 10 A train travels at a speed of $18 \mathrm{~m} / \mathrm{s}$ in the first 5 minutes, covers 7.5 km in the next 10 minutes and covers 12 km in another 10 minutes. What is its average speed (in $\mathrm{km} / \mathrm{h}$, rounded off to 1 decimal place) for the entire journey?
Ans

1. 59.8
2. 71.2

X 3.45 .7
4. 64.6
Q. 11

If, $\frac{r}{13}+\frac{13}{r}=1$ then the value of $r^{3}$ is:
Ans
$\times 1 .-2157$
$\times 2.2197$
$\times 3.2157$
4. -2197
Q. 12 If $\frac{a}{b}+\frac{b}{a}=-1$ and $a-b=2$, then the value of $a^{3}-b^{3}$ is:

Ans

1. 0
2. $\frac{1}{2}$
3. 1
4. -1
Q. 13 A person borrowed ₹ 2,000 at $5 \%$ annual simple interest repayable in 3 equal annual installments. What will be the annual installment?
Ans
5. $₹ 730 \frac{10}{63}$
6. ₹ $840 \frac{9}{61}$
× 3. ₹ $640 \frac{11}{63}$
X4. ₹ $250 \frac{10}{63}$
Q. 14 Two persons $A$ and $B$ working separately can sanitise a building in 6 and 10 hours,
respectively. They work in stretches of one hour alternately. If $\mathbf{A}$ begins at 8 a.m., then when will the work be finished?
Ans
$\times 1.9 \frac{1}{3} \mathrm{~h}$$7 \frac{1}{3} \mathrm{~h}$
7. $6 \frac{1}{3} \mathrm{~h}$
$\times 4.8 \frac{1}{3} \mathrm{~h}$
Q. 15 The area of two similar triangles are $324 \mathrm{~cm}^{2}$ and $289 \mathrm{~cm}^{2}$, respectively. What is the ratio of their corresponding altitudes?
Ans
$\times 1 . \frac{17}{18}$2. $\frac{17}{19}$
8. $\frac{19}{17}$
-4. $\frac{18}{17}$
Q. 16 The pie-chart shows marks of a student in different subjects out of 100 .


The marks scored in Hindi and Mathematics are more than the marks scored in English and Science by:
Ans
$\times 1.35$
2. 25
$\times 3.20$
$\times 4.30$
Q. 17 Train A running at $81 \mathrm{~km} / \mathrm{h}$ takes 72 sec to overtake train B , when both the trains are running in the same direction, but it takes 36 sec to cross each other if the trains are running in the opposite direction. If the length of train B is $\mathbf{6 0 0}$ metres, then find the length of train $A$. (in metres)
Ans
$\times 1.600$
2. 480
X. 590
$\times 4.900$

Status : Not Answered
Q. 18 An airplane goes 14 km due east and then 48 km due north. How far is it from its initial position?
Ans
X 1.14 km2. 48 km
3.50 km
4.28 km
Q. 19 If $\triangle A B C \cong \triangle P Q R$ and $\angle A B C=(x+60)^{\circ}, \angle P Q R=(85-4 x)^{\circ}$, and $\angle R P Q=(3 x+65)^{\circ}$, then the value of $\angle A B C$ in degree is:

Ans

1. 15
$\times 2.5$
2. 45
3. 65
Q. 20 If the number 6788934 a 4 is divisible by 11 ,then find the smallest whole number in the place of a.
Ans
1.3
4. 4
5. 5
6. 2
Q. 21 Ram sold an item costing Rs.1,250 at a gain of $18 \%$ to Ramesh. It was again sold by Ramesh to Shyam at a loss of $10 \%$. Find the selling price of Ramesh.
Ans
7. Rs. $1,328.50$
8. Rs. 1,428.50
9. Rs. 1,427.50
10. Rs. 1,327.50
Q. 22 The ratio of the present age of father to that of his son is 7:2. If after 10 years the ratio of their ages will become $9: 4$, then the present age of the father is:
Ans
11. 43 years
12. 35 years

X 3.37 years
4. 40 years
Q. 23 If $\tan ^{2} \theta+\tan ^{4} \theta=1$, then:

Ans

1. $\cot ^{2} \theta+\cot ^{4} \theta=1$
2. $\cos ^{2} \theta+\cos ^{4} \theta=1$
3. $\sin ^{2} \theta+\sin ^{4} \theta=1$
4. $\operatorname{cosec}^{2} \theta+\sec ^{4} \theta=1$
Q. 24 If the diameter of a solid hemisphere is 12.6 cm , then its volume is (take $\pi=\frac{22}{7}$ ):

Ans
X 1. $1,259 \mathrm{~cm}^{3}$
X 2. $987 \mathrm{~cm}^{3}$
З. $523.908 \mathrm{~cm}^{3}$

X 4. $1,235.621 \mathrm{~cm}^{3}$

## Q. 25 Which of the following statement is correct?

I. The value of $100^{2}-99^{2}+98^{2}-97^{2}+96^{2}-95^{2}+94^{2}$
$-93^{2}+\ldots \ldots+22^{2}-21^{2}$ is 4840 .
II. The value of
$\left(\mathrm{k}^{2}+\frac{1}{\mathrm{k}^{2}}\right)\left(\mathrm{k}-\frac{1}{\mathrm{k}}\right)\left(\mathrm{k}^{4}+\frac{1}{\mathrm{k}^{4}}\right)\left(\mathrm{k}+\frac{1}{\mathrm{k}}\right)\left(\mathrm{k}^{4}-\frac{1}{\mathrm{k}^{4}}\right)$ is $\mathrm{k}^{16}-\frac{1}{\mathrm{k}^{16}}$.
Ans
X 1. Neither I nor II
X 2. Both I and II
< 3. Only II
4. Only I
Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

This package is ideal for infant teenager who are just getting started with babysitting.
Ans
$X$ 1. youngest teenagers
< 2. younger teenagers
3. young teenagers
4. No substitution required
Q. 2 Select the option that can be used as a one-word substitute for the given group of words.

Making of a false document with a false signature
Ans
X 1. Ruse
2. Forgery
3. Insincerity
4. Deception
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There can be precious / diamonds and metals / in the surface / just below you.
Ans
X 1. diamonds and metals
2. just below you.
3. in the surface
4. There can be precious
Q. 4 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. A glimpse of its rich cultural heritage can be found through the great monuments and other historical sites it has.
B. India has a vast cultural and linguistic diversity which make the country culturally rich.
C. These monuments and historical sites are the symbols of India's diversity.
D. Several historical sites and monuments are identified as UN Heritage Sites.

Ans

- 1. CDAB

X 2. BADC
3. BACD
4. $A B C D$
Q. 5 Rearrange the parts of the sentence in correct order. apart from generating
P. real income for players, play-to-earn
Q. games also create communities
R. where gamers and creators can meet, share
$S$. wisdom, and do deals with one another
Ans
X 1. RSQP
2. PQRS
$\times$ 3.PRQS
4.SPRQ
Q. 6 Select the correct indirect form of the given sentence.

Farah said to her aunt, "I am studying contemporary art."
Ans

1. Farah told her aunt that she was study contemporary art.
2. Farah told her aunt that she is studying contemporary art.3. Farah told her aunt that she had been studying contemporary art.
3. Farah told her aunt that she was studying contemporary art.

Question ID: $\mathbf{2 6 4 3 3 0 1 0 4 6 0 1}$
Status : Answered
Chosen Option: $\mathbf{4}$
Q. 7 Select the correct passive form of the given sentence. They welcomed Jane and Karan to the gathering.
Ans
$X$ 1. Jane and Karan is welcomed by them to the gathering.
$\times$ 2. Jane and Karan had been welcomed by them to the gathering.
$X$ 3. Jane and Karan are welcomed by them to the gathering.
4. Jane and Karan were welcomed by them to the gathering.
Q. 8 Select the most appropriate ANTONYM of the underlined word in the context of the given sentence.

You should donate your old clothes to the poor.
Ans
$X 1$. young
2. new
$X$ 3. modern
4. fresh

## Q. 9 Select the correct passive form of the given sentence.

Has she completed the record?
Ans 1. Has the record been completed by her?
2. Has the record completed by her?
3. Has the record had been completed by her?
4. Has the record been complete by her?
Q. 10 Select the sentence with the appropriate use of preposition.

Ans $\times 1$. The lion and the unicorn fought between the crown.
2. The lion and the unicorn fought for the crown.
$X$ 3. The lion and the unicorn fought by the crown.
4. The lion and the unicorn fought up the crown.
Q. 11 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative. To make your own gargle, $\qquad$ half a teaspoon of salt in a glass of lukewarm or partly cooled boiled water.
Ans
$X$ 1. cease
$X 2$. cast
$\times$ 3. consolidate
4. dissolve

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

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

Ans
$X$ 1. leave
$\times 2$. pay
3. give
4. deliver

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

Ans $\quad \times 1$. India has started the largest inocultaion drive in the world against Covid.2. India has started the largest inoculation drive in the world against Covid.
3. India has started the largest inculation drive in the world against Covid.
4. India has started the largest inokulation drive in the world against Covid.
Q. 14 Select the option that can be used as a one-word substitute for the given group of words.

A list or collection of books or informative graphics
Ans
$\times 1$. Bale
$\times 2$. Hamlet

- 3. Gallery

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

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

1. slow and steady
2. make a habit
3. in and outs
$\times$ 4. do's and don'ts
Q. 16 Select the most appropriate meaning of the underlined idiom in the given sentence.

The intern aspired to understand the ins and outs of the operating systems of the institution.
Ans
$X$ 1. Stern regulations
X 2. Prior conditions
$X$ 3. Elaborate theories
4. Detailed description
Q. 17 Select the most appropriate synonym for the underlined word in the given sentence.

You also worked with another eccentric genius.
Ans
$X$ 1. Middle
$\times 2$ 2. ecological
3. Peculiar
$X$ 4. elusive

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

Incoherent
Ans
X 1. Gloomy
2. Apparent

X 3. Pensive
4. Rational
Question ID: $\mathbf{2 6 4 3 3 0 7 1 7 8 4}$
Status : Not Answered
Chosen Option: --
Q. 19 Select the option that is similar in meaning to the underlined word.

He declined the offer to join the Board of Directors.
Ans
$X$ 1. Delayed
2. Rejected
3. Modified
4. Deferred

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

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

1. continuous
2. sucsess
3. gaols
4. achivement

## Comprehension:

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

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

Ans
$X$ 1. perspiration
2. deposition
3. sediment
4. pigment

## Comprehension:

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

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

Ans 1.influence
X 2. allure
$X$ 3. intimidate
4. persuade

## Comprehension:

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

SubQuestion No : 23
Q. 23 Select the most appropriate option to fill in blank number 3 .
$X 1$. migrate
$\times$ 2. obtrude
3. forage
4. scoot


## Comprehension:

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

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

Ans
X 1. slipshod
2. efficient
$X$ 3. methodical
4. structured

## Comprehension:

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

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

## Ans

1. preening
2. devouring
$X$ 3. flouncing
X 4. scintillating

| Exam Date | $13 / 12 / 2022$ |
| :--- | :--- |
| Exam Time | $5: 15$ PM $-6: 15$ PM |
| Subject | Combined Graduate Level Examination Tier I 2022 |

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

Ans

1. BNKNQ

X 2. BMKMQ
$\times$ 3.ANKNQ
4. AMKMQ
Q. 2 Three statements are followed by three conclusions numbered I, II and III. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statements.
Statements:
Few chips are cakes.
All cakes are ice creams.
All ice creams are sweets.
Conclusions:
(I) Some sweets are cakes.
(II) Some ice creams are cakes.
(III) All cakes are sweets.

Ans $\times 1$. Only conclusion I follows
X 2. Only conclusion II follows
3. All conclusions I, II and III follow
4. Either conclusion I or conclusion III follows
Q. 3 After arranging the given words according to dictionary order, which word will come at 'Third' position?

1. Unaffected
2. Unarmed
3. Unasked
4. Unattached
5. Unauthorized

Ans $\times 1$. Unauthorized
X 2 . Unarmed3. Unasked
4. Unattached
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
$(60,17,13)$
$(62,14,17)$
Ans

1. $(56,15,13)$
2. $(43,9,12)$
3. $(55,18,9)$
4. $(57,15,14)$

Status: Answered
Q. 5 Which letter cluster will replace the question mark (?) to complete the given series? EDIC, FGJF, ?, HMLL, IPMO
Ans
X 1. GIKI
X 2. GJKJ
X 3. GJLI
4. GJKI
Q. 6 After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
$\div$ and $\times, 1$ and 3
I. $6+4-9 \times 3 \div 1$
II. $4 \times 3-1+8 \div 2$

Ans

- 1. 26,17

2. $-17,17$

- 3.9, 18

4. 11, 15
Q. 7 A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
GAR, AXS, UUT, ORU, ?
Ans
5. IOV

- 2. MOV
$\times$ 3. QRT
X 4. IMR


## Q. 8 Three of the following letter-clusters are alike in some manner and hence form a

 group. Which letter-cluster does not belong to that group?Ans
X 1. WPUQ
X 2. MEKF
3. BXCY

X 4. ZLXM
Q. 9 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans

1. (57-53-49)
2. (60-56-52)

X 3. (50-46-42)
4. (47-43-37)
Q. 10 Which two signs and two numbers should be interchanged in the following equation to make it correct?
$78+456-45 \times 12 \div 4=519$
Ans

1. 12 and $4,-$ and $\times$
2. 78 and $456, \div$ and $\times$
3. 45 and 12 , + and $\div$
4. 456 and $45, \div$ and -
Q. 11 In the following question, select the missing number from the given series.

123, 125, 127, ?, 131, 133
Ans
X 1.128
2. 129
3. 130
$\times 4.145$
Q. 12 Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

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

Ans

1. $P \times Q+R$

X2. $Q \times P+R$
$\times 3 . P+R \times Q$
4. $\mathrm{P} \times \mathrm{Q}-\mathrm{R}$
Q. $14 \mathrm{U} \$ \mathrm{~V}$ means ' U is the sister of V '
$\mathbf{U}$ @ $V$ means ' U is the husband of V '
$U$ * $V$ means ' $U$ is the son of $V$ '
$\mathrm{U} \div \mathrm{V}$ means ' U is the mother of V '
If $O \$ P^{*} B @ F$, how is $O$ related to $F$ ?
Ans

1. Sister
2. Brother
3. Daughter
$\times$ 4. Daughter-in-law
Q. 15 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All O are C .
II. All C are D.

Conclusions:
I. Some $\mathbf{C}$ are 0.
II. Some D are C.
III. NoO is D .

Ans $\times 1$. Both conclusions II and III follows
$X$ 2. All conclusion follows
3. Both conclusions I and II follows
4. Both conclusions I and III follows
Question ID: $\mathbf{2 6 4 3 3 0 1 0 4 9 4 8}$
Status: Answered
Chosen Option: $\mathbf{3}$
Q. 16 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
ABILITY : LIBAYTI :: CHRONIC : ORHCCIN :: HEAVILY : ?
Ans

1. VAEHYLI

X 2. HAVIEYL
X 3.AEVHLYI
X 4. LYIAVHE
Q. 17 Select the figure from among the given options that can replace the question mark (?) in the following series.


Question ID : 26433057792
Status: Answered
Chosen Option: 1
Q. 18 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.

Q. 19 Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?
$[(\sqrt{256}) \div 4]^{3}+(6)^{2}-(12 \times 8)+66+(36 \div 12)=65$
Ans
$X 1.6$ and 8
$\times 2.66$ and 65

- 3.4 and 8
$\times 4.66$ and 36
Q. 20 Select the figure from among the given options that can replace the question mark
(?) in the following series.


Ans
2
$\times 2$.

$\times 3$.

$\times 4$.

Q. 21 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1
and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(4,6,9)$
$(25,10,4)$
Ans
X 1. $(23,3,32)$
X 2. $(45,20,19)$
3. $(6,36,216)$

- 4. $(98,7,89)$
Q. 22 In a certain code language, 'TOP' is coded as '102' and 'BAD' is coded as ' 14 '. How will 'DOG' be coded in that language?
Ans

1. 51
2. 52
3. 53
4. 50
Q. 23 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
LAMP : RQGT :: GAME : GQGO :: GOAT : ?
Ans
X 1. OUEV
X 2. EVUO
5. VEUO

- 4. ACDF
Q. 24 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.
6:12:: 9 : 21 :: 3 : ?
Ans
- 1.3
$\times 2.7$
$\times 3.5$
$\times 4.8$
Q. 25 Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).


Ans
$\times 1$.
$\times 2 . \square$
$\times 3 . \sqrt{\sim}$


Section: General Awareness

## Q. 1 Who among the following won the Best Music Director award at the $67^{\text {th }}$ National Film Award Ceremony?

Ans
X 1. Gopi Sundar
2. D. Imman
3. Mani Sharma
4. Devi Sri Prasad
$\qquad$ are known as narrow money.
Ans

1. M1 and M2

X 2. M2 and M4
X 3. M3 and M2
X 4. M1 and M4
Q. 3 Samudragupta's mother belonged to which of the following gana?

Ans $\times 1$. Koliya
2. Lichchhavi
3. Sakya
4. Vajji
Q. 4 Padma Subrahmanyam is the exponent of which of the following Indian dance forms?

Ans
$\times$ 1. Kathakali
2. Bharatanatyam

X 3. Kathak
4. Mohiniattam
Q. 5 The crust is the Earth's outermost layer that is less than percent of Earth by mass, with oceanic crust and continental crust often consisting of more felsic rocks.
Ans
$\times 1.5$

- 2.1
$\times 3.2$

4. 10

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

Ans

1. Appellate
2. Advisory

X 3. Writ
4. Original

## Q. 7 Cells of meristematci tissue lack

$\qquad$ -

Ans

1. Cellulose wall
2. Vacuoles
< 3. cytoplasm
3. Nuclei
Q. 8 The upper portion of the mantle is called $\qquad$ .

Ans
X 1. lithosphere
2. stratosphere
3. mesosphere
4. asthenosphere
Q. 9 Guru Purnima, a festival celebrated by Hindus, Jains and Buddhists in India falls in which month of Hindu calendar?

Ans

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

Ans

1. President of India
2. Chief Justice of India
3. Prime Minister of India
4. Finance minister of India
Q. 11 Which of the following festivals is mainly celebrated in Arunachal Pradesh?

Ans
< 1. Hornbill
2. Ambubachi
3. Wangala
4. Solung
Q. 12 The poverty ratio has declined to $\qquad$ in 2011-12 in Urban India.
Ans
X 1. 21.4 percent
2. 26.4 percent
$\times 3.23 .4$ percent
4. 28.4 percent
Q. 13 At which of the following places was the FIFA Men's World Cup, held in 2018?

Ans
Q. 14 In which year, James Mill Published a massive three-volume work, "A History of British India"?
Ans
$\times 1.1815$
2. 1807
3. 1805
4. 1817
Q. 15 The ISSF Junior World Cup 2022 was held in $\qquad$ -
Ans

1. Germany
2. Iran
$X$ 3. Turkey
3. UAE

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

Ans
X 1.62
$\times 2.78$
3.68
4.72
$\qquad$ .
Ans

1. industries started to get diversified
2. India become self-sufficient in industrial goods

X 3. imports of those goods which could be produced in India itself was avoided
X 4. industries share fell in the GDP during 1991
Q. 18 Which of the following revolutionary groups' members assassinated Assistant Superintendent of Police John Saunders in 1927?
Ans
$X$ 1. Hindustan Sewa Dal
2. Hindustan Republican Association

X 3. Abhinav Bharat Secret Society
4. Anushilan Samiti
Q. 19 What is the correct percentage by volume of various gases in Earth's atmosphere?

Ans $\times 1.20 .95 \%$ nitrogen, $78.09 \%$ oxygen, and $0.04 \%$ carbon dioxide and other greenhouse gases.
X 2. 10.95\% nitrogen, $88.09 \%$ oxygen, and $0.09 \%$ carbon dioxide and other greenhouse gases.

X 3. $10.95 \%$ nitrogen, $78.09 \%$ oxygen, and $0.03 \%$ carbon dioxide and other greenhouse gases.
4. $78 \%$ nitrogen, $21 \%$ oxygen, and $0.03 \%$ carbon dioxide and other greenhouse gases.
Q. 20 The Indian Antarctic Bill, 2022 prohibits which of the following activities in Antarctica?
I. Nuclear explosion
II. Introduction of non-sterile soil
III. Discharge of garbage

Ans X1. I and II
2. I, II and III
$X$ 3. Only III
X. II and III
Q. 21 In organic chemistry, which of the following is an empirical rule used to predict the regioselectivity of electrophilic addition reactions of alkanes and alkynes?
Ans
$X 1$. Cornforth's rules
2. Bredt's rule
3. Markovnikov's rule
4. Baldwin's rules

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

Ans
X 1. Rice
2. Jute
3. Maize
4. Cotton
Q. 23 India's first Olympic Values Education Programme (OVEP) was launched in $\qquad$ .
Ans
X 1. Uttar Pradesh
2. Punjab
3. Odisha
4. Haryana
Q. 24 According to Article 51 A (a) of the Constitution of India, it shall be the duty of every Indian citizen to abide by the $\qquad$ and respect its ideals and institutions.

Ans

1. constitution
2. secularism
3. socialism
4. democracy
Q. 25 In which of the following states of India is "MANAS" biosphere Reserve located?

Ans
$X$ 1. Tripura
X 2. Manipur
$X$ 3. Meghalaya
4. Assam
Q. 1 The table given below shows the cost price and selling of four different articles.

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

What is the difference between the average selling price and average cost price of all the articles?
Ans
1.110
$\times 2.160$
$\times 3.710$
$\times 4.140$
Q. 2 Two stations $R$ and $S$ are 400 km apart from each other. A train leaves from $R$ to $S$ and simultaneously another train leaves from $S$ to $R$. Both trains meet after 10 hours. If the speed of the first train is $4 \mathrm{~km} / \mathrm{hr}$ more than the second train, then what is the speed of the slower train?
Ans

- $1.18 \mathrm{~km} / \mathrm{hr}$

X $2.26 \mathrm{~km} / \mathrm{hr}$
X $3.16 \mathrm{~km} / \mathrm{hr}$
4. $22 \mathrm{~km} / \mathrm{hr}$
Q. 3 If $\tan (\alpha+\beta)=a, \tan (\alpha-\beta)=b$, then the value of $\tan 2 \alpha$ is :

Ans

1. $\frac{a+b}{1-a b}$
2. $\frac{a+b}{1+a b}$
$\times 3 \cdot \frac{a-b}{1+a b}$
X4. $\frac{a-b}{1-a b}$
Q. $4 \quad \mathrm{P}$ and Q are two alloys of aluminium and copper. The ratios of aluminium and copper in $P$ and $Q$ are 5:11 and 3:5, respectively. If a third alloy is formed by mixing alloys $P$ and $Q$ in the ratio of $1: 3$, then aluminium is what percentage (rounded off to the nearest integer) of the copper in the third alloy?
Ans
3. 63 Percent
4. 52 Percent
5. 48 Percent
6. 56 Percent

## Q. 5 A certain sum of money lent at simple interest amounts to ₹ 1,200 in 2 years and ₹1,600

 in 4 years. The rate per cent per annum is:Ans
X $1.20 \%$
2. $30 \%$
3. $25 \%$
4. $16 \%$
Q. 6 If the nine-digit number $3422213 A B$ is divisible by 99 , then what is the value of $2 \mathrm{~A}+\mathrm{B}$ ?

Ans

1. 11

X 2. 12
$\times 3.10$
4. 13
Q. 7 The pie chart given below shows the number of boys in 8 schools. The total number of boys in all these $\mathbf{8}$ school is 5000 . Number of boys in a particular school is shown as a percent of total number of boys in all these 8 schools.


What is the ratio of total number of boys in $B, D$ and $E$ to the total number of boys in $A$, C and F ?
Ans
X $1.37: 57$
2. 42 : 41
$\times 3.57: 38$
4. $41: 42$


In the given figure, if $\mathrm{KI}=\mathrm{IT}$ and $\mathrm{EK}=\mathrm{ET}$, then $\angle \mathrm{TEI}=$ $\qquad$ .

Ans
$\times 1.75^{\circ}$
$\times 2.125^{\circ}$
3. $105^{\circ}$
4. $150^{\circ}$
Q. 9 The pie chart given below shows the number of car sold by 8 different companies. The total number of car sold by all these 8 companies are 5,000. Number of cars sold by a particular company is shown as a percent of total number of cars sold by all these 8 companies.


What is the ratio of total central angle formed by sector $R$ and $S$ to the total central angle formed by sector $U$ and $V$ ?
Ans
X 1.1:4
2. $2: 1$
< $3.1: 2$
<4.3:1
Q. 10 In a $\triangle A B C \quad \angle B+\angle C=110^{\circ}$, then find the measure of $\angle A$.

Ans
$\times 1.90^{\circ}$
-2. $70^{\circ}$
$\times 3.80^{\circ}$
X4. $60^{\circ}$
Q. 11

In the given figure, $\angle \mathrm{ABC}=81^{\circ}$ and $\angle \mathrm{ACB}=9^{\circ}$. What is the value of $\angle \mathrm{BDC}$ ?


Ans
$\times 1.80^{\circ}$
2. $90^{\circ}$
$\times 3.70^{\circ}$
$\times 4.60^{\circ}$
Q. 12 If $x=2-2^{\frac{1}{3}}+2^{\frac{2}{3}}$, then find the value of $x^{3}-6 x^{2}+18 x$.

Ans $\times 1.40$
$\times 2.33$
$\times 3.45$

- 4.22
Q. 13 If A is an acute angle, the simplified form of
$\frac{\cos (\pi-A) \cdot \cot \left(\frac{\pi}{2}+\mathrm{A}\right) \cos (-\mathrm{A})}{\tan (\pi+\mathrm{A}) \tan \left(\frac{3 \pi}{2}+\mathrm{A}\right) \sin (2 \pi-\mathrm{A})}$ is:

Ans
$\times 1 . \operatorname{Cos}^{2} \mathrm{~A}$
2. $\operatorname{Sin} A$
3. $\operatorname{Sin}^{2} A$
4. $\operatorname{Cos} \mathrm{A}$
Q. 14 If $a+b+c=5, a^{3}+b^{3}+c^{3}=85$ and $a b c=25$, then find the value of $a^{2}+b^{2}+c^{2}-a b-$
$b c-c a$.
Ans

1. 2
< 2.4
3.6
4.8
Q. 15 Find the area of the shaded portion of an equilateral triangle with sides 6 units shown in the following figure. A circle of radius 1 unit is centred at midpoint of a side of the triangle.


Ans

1. $\frac{1}{2}\left(9 \sqrt{3}-\frac{11}{7}\right)$ unit $^{2}$
2. $\frac{1}{4}\left(9 \sqrt{3}-\frac{11}{7}\right)$ unit $^{2}$
$X$ 3. $\frac{1}{2}\left(6 \sqrt{3}-\frac{11}{7}\right)$ unit $^{2}$
X 4. $\frac{1}{2}\left(9 \sqrt{3}-\frac{22}{7}\right)$ unit $^{2}$
Q. 16 The table given below shows the sales turnover of 5 different companies.

| Company | Sales tumover |
| :---: | :---: |
| E | 270 |
| F | 230 |
| G | 350 |
| H | 400 |
| I | 300 |

What is the difference between the sales turnover of company H and F ?
Ans
X 1.190
$\times 2.210$

- 3.170
+4.230
Q. 17 If $a=-12, b=-6$ and $c=18$, then what is the value of $(2 a b c) / 9$

Ans $\times 1.554$
2. 288

X 3. -288
-4. 144
Q. 18 By selling an article for Rs. 33,000 a man gains $10 \%$. To get a profit of $\mathbf{2 0 \%}$, he has to sell it for:
Ans

1. Rs.30,000

X 2. Rs.35,000
3. Rs.36,000
4. Rs.36,600
Q. 19 In nine innings of cricket, the average of a batsman is 58 runs. How many runs does he need to make in the tenth innings to get the average score 61?
Ans

1. 88
2. 69
3.79
-4.100

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

Ans
$\times 1.65$
X 2.25
3. 75
4. 85
Q. 21 Pawan can do a piece of work in 32 days. He worked for 8 days and left the work. Thereafter Sandeep finished the remaining work in 27 days. In how many days can Pawan and Sandeep together do the whole work?
Ans

1. $16 \frac{16}{17}$ days
$\times 2.16 \frac{13}{17}$ days
$\times 3.16 \frac{15}{17}$ days
X4. $16 \frac{14}{17}$ days
Q. 22 The ratio of two numbers is $6: 7$ and their HCF is 3 . Their LCM is $\qquad$ -
Ans
X 1.124
2. 128
3. 122
4. 126

## Chosen Option: 4

Q. $23 \triangle P Q R$ is right-angled at $Q$. The length of $P Q$ is 5 cm and $\angle P R Q=30^{\circ}$. Determine the length of side QR.
Ans

1. $5 \sqrt{3} \mathrm{~cm}$
2. $3 \sqrt{3} \mathrm{~cm}$
3. $\frac{1}{\sqrt{3}} \mathrm{~cm}$

X4. $\frac{5}{\sqrt{3}} \mathrm{~cm}$
Q. 24 A shopkeeper allows a discount of $12 \%$ to his customers and still gains $18 \%$. Find the marked price of an article which costs Rs. 528 to the shopkeeper. (Answer to the nearest rupees)
Ans
X 1. Rs. 728
2. Rs. 708

X 3.Rs. 695
X 4.Rs. 798
Q. 25
' $O$ ' is a point in the interior of an equilateral triangle. The perpendicular distance from ' $O$ ' to the sides are $\sqrt{3} \mathrm{~cm}, 2 \sqrt{3} \mathrm{~cm}, 5 \sqrt{3} \mathrm{~cm}$. The perimeter of the triangle is:

Ans

1. 48 cm
2. 32 cm
3. 24 cm
4. 64 cm

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

1. vitality
2. stretch
3. trench
4. emancipation
Q. 2 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Within an hour, he was in jail.
Q. He made no attempts to hide his identity and even looked directly into the security camera and smiled.
R. On Jan 6, 1995, McArthur Wheeler boldly robbed two banks in broad daylight with no disguise.
S. By 11:00 at night, his picture was all over the news, leading an informant to identify Wheeler to the police.
Ans
X 1.RPSQ
$\times 2$. SPQR
5. RQSP
6. PRQS
Q. 3 Select the most appropriate synonym of the underlined word in the given sentence.

Isn't knowledge supposed to make life sweeter and happier?
Ans
$X$ 1. Curriculum
$\times 2$. Profession
3. Wisdom

X 4. Superiority
Q. 4 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The man which was present at the meeting spoke against the chairperson.
Ans
$X 1$. The man which were present
X 2. The men which was present
3. The man whom was present
4. The man who was present

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

They were not able to get the item from the store because it was $\qquad$ .
Ans
$X 1$. in fashion
2. in vain
3. out of stock
4. on leave
Q. 6 Select the most appropriate meaning of the underlined idiom in the given sentence. I must tell you that it all went pear-shaped after you left the meeting in the middle.
Ans

1. Went terribly wrong
$X$ 2. Became very entertaining
X 3. Became tragic
2. Turned out fine
Q. 7 Select the most appropriate ANTONYM of the word 'dwindle' in the sentence given below.

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

1. deprecate
2. complement
3. motivate
4. neglect
Q. 8 Select the most appropriate option to substitute the underlined segment in the given sentence.

The bus is now full of passengers, it will leave soon.
Ans
$\times 1$. leaves
$\times 2$ is leaving3. is going to leave
4. has to leave
Q. 9 Select the option that expresses the given sentence in active voice.

Where was this pen found by him?
Ans
$\times 1$. Where do he find this pen?
X 2. Where does he find this pen?
X 3. Where did he found this pen?
4. Where did he find this pen?
Q. 10 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Kranthi loves to swim at the local swimming pool in order that relieve his work stress.
Ans
$\times 1$. in order which
< 2. No substitution
$\times 3$. in order as to relieve
4. in order to relieve

Status: Answered
Q. 11 Select the most appropriate ANTONYM of the given word.

Inherent
Ans
$X$ 1. Natural
2. extraneous
$X$ 3. Induce
X 4. Restricted
Q. 12 Select the idiom from the given options that gives the most appropriate meaning of the highlighted text in the following sentence.

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

1. Road to Damascus
2. Ivory tower
3. Aladdin's cave
$X$ 4. Jewel in the crown

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

I named the child Ritesh.
Ans

1. The child was named Ritesh.
< 2. The child Ritesh is named.
2. The child is named Ritesh.
3. The child Ritesh was named.
Q. 14 Select the sentences that contains no spelling errors in the given context.

Ans
X 1. Furrow from the protestors was heard outside the president's house.
2. Furoroe from the protestors was heard outside the president's house.
3. Furore from the protestors was heard outside the president's house.4. Furorow from the protestors was heard outside the president's house.
Q. 15 In the given sentence, one word may have been incorrectly spelt. Select the correctly spelt word from the given alternatives. If there is no error, select ' $N o$ error' as your answer.

Decades of enimity between Lomovs and Chubukovs came to an end with the marriage between the two families.
Ans
$X$ 1. enemity
2. enmity
3. anaemity
4. No error
Q. 16 Select the correct direct form of the given sentence.

She tells me that I am her lucky charm.
Ans

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

X 2. She said to me, "You are my lucky charm."
(3. She says to me, "I am your lucky charm."
4. She says to me, "You are my lucky charm."
Q. 17 Select the most appropriate synonym of the given word.

Chide
Ans

1. Prevent

X 2. Rescue
3. Scold
4. Follow
Q. 18 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The boy, as well as / his friends, were / absent from the class / when the teacher came.
Ans
X 1. absent from the class
2. when the teacher came

- 3. his friends, were

X 4. The boy, as well as

## Q. 19 Rearrange the parts of the sentence in correct order.

Genome-wide
P. with metabolites that influence
Q. traits like flavour, disease resistance and texture
R. analysis of each apple enabled

S . identification of genetic markers associated
Ans
$\times 1$. PQRS
2. QRPS
3. RSPQ
4. QRSP
Q. 20 Parts of the following sentence have been given as options. Select the option that contains a grammatical error.

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

1. He describes the place vivid
2. the same.
3. a wish to visit
4. that inspired in us

## Comprehension:

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

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

X 1. motion
X 2. current
3. movement
4. fluctuation

## Comprehension:

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

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

1. yield
2. attain
$\times$ 3. establish
3. procure

## Comprehension:

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

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

Ans
$X 1$. magnifying
2. amplifying
$\times 3$. intensifying
4. enhancing

## Comprehension:

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

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

Ans $X$ 1. lively
2. hectic
3. furious
4. feverish

## Comprehension:

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

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

Ans

1. indulge
< 2. Iuxuriate
X 3. abandon
2. coddle
