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| Exam | 03/08/2022 |
| Date | 2:30 PM - 3:30 PM |
| Exam | Selection Post Phase X Graduate Level |

## Time

## subject

Section : General Intelligence
Q. 1 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.
Statement:
Some figs are orange.
All oranges are grapes.
All mangoes are oranges.
Conclusions:
(I) Some figs are grapes.
(II) All mangoes are grapes.
(III) Some mangoes are figs.

Ans $\times 1$. Both Conclusions I and III
X follow. 2. Both Conclusions II and
III follow. 3. Both Conclusions I
$X$ and II follow. 4. Only Conclusion I
follows.
Q. 2 Select the figure that will come next in the following figure series.


Ans

## $\times 1$. <br> 


Q.3In a certain code language, 'BOTTLE' is written as 'YTGJQY' and 'PLATES' is written as 'FQUXJY'. How will 'PICNIC' be written in that language?
Ans

1. HNUHNS

X 2. HNVHMT
X 3. HNUHNT
X 4. HNVHNS

## Q. 4 Se

is lect the option that is related to the third word in the same way as the second word related to the first word. (The words must be considered as words and must not be related to each other based on the number of letters/number of
consonants/vowels in the word)
M elodious : Discordant :: Novice : ?
Ans
X 1. Beginner
X 2 . Sweet
3. Expert

X 4. Ingenious
Q.5Select 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.)
Pen : Ink :: Pencil : ?
Ans

1. Lead

X ${ }_{2}$. Nib
X 3. Write
X4. Colour
Q. 6 Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans


- 3. 


$\times 4$.

Q.7Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (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)

Bird : Nest
Ans
X 1. King: Flat
2. Bee : Hive

X 3. Watchman : Prison
X 4. Pig: Stable
Q. 8 Se
th lect the set in which the numbers are related in the same way as are the numbers ofe 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
ading /deletin
3 dg /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and and then performing mathematical operations on 1 and 3 is NOT allow $(4,2,8)$
$(15,11,64)$
Ans
X 1. $(29,19,729)$
2. $(45,40,125)$

X $3 .(11,7,81)$
X4. $(17,10,1331)$
Q. 9 In a code language, 'BRACKET' is written as 'VGMECTD' and 'PLUSH' is written as 'JUWNR'. How will 'VIABLE' be written in that language?
Ans
X 1. GMDCKX
2. GNDCKX

X 3. GNECKX
X4.GNDDKX
Q. 10 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 11 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 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:
No bench is a table.
No board is a bench.
Some benches are chalks.
Conclusions:
(I) Some chalks are benches.
(II) Some chalks are not tables.
(III) Some chalks are not boards.

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

X 4. Either conclusion I or conclusion III follows.
Q. 12 Wh

9 ich of the following numbers will replace the question mark (?) in the given series? $8,97,101,92$, ?
Ans
$\times 1.91$
X 2.104
$\times 3.93$

- 4.108
Q.13Which letter-cluster will replace the question mark (?) and complete the given series?

CZAR, EXCP, ?, ITGL, KRIJ
Ans

1. GVEN

X 2. GWDN
X 3. GWEM
X 4.GWEN
Q. 14 If,
' $\mathrm{B} \% \mathrm{D}$ ' means ' B is the brother of D ',
' $B$ \& $D$ ' means ' $B$ is the mother of $D$ ',
' $B \times D$ ' means ' $B$ is the husband of $D$ ',
' $B$ \# D' means ' $B$ is the sister of $D$ '
' $B$ \$ D' means ' $B$ is the son of $D$ ',
'B @ D' means ' $B$ is the father of $D$ ',
then how is $P$ related to $U$ in the following expression?
P \$ Q × R \# S \% T \$ U
Ans $\times 1$. Son
X 2. Great-grandson
X 3. Nephew
4. Grandson
Q.15In a certain code language, 'water is odourless' is written as '34 5678 ', 'air is
colourless' is written as '56 01 67' and 'water and air' is written as '67 7845 '. What is the code for the word 'odourless' in that language?
Ans
X 1.78
X .67
$\times 2.56$
X3. 56
-4.34
Q. 16 In ac
h ertain code language, 'MOSQUE' is written as '92', 'TEMPLE' is written as '111',ow will 'CHURCH' be written in that language?
Ans

1. 121
$\times 2.125$
$\times 3.128$
$\times 4.118$
Q.17Select the option that represents the correct order of the given words as they would appear in an English dictionary.(Note: the given words may or may not be meaningful
words).
1.Margin
2.Manage
3.Maximum
4.Measurement
5.Marriage

Ans $\quad \chi_{1.4}, 2,3,5,1$
X 2.2,3,5,1, 4
3. 2, 1, 5, 3, 4
$\times$
4. 4, 2, 1, 5, 3
Q.18Which two numbers (not the digits of the numbers) and two signs should be interchanged to make the given equation correct?
$70-4 \times 20+6 \div 5=60$
Ans
X 1. 4, 20 and + , $\div$
2. 5, 6 and + , $\div$

X 3.4, 70 and,$+ \div$
X4.4,20 and +, $\times$
Q. 19 Two different positions of the same dice are shown, the six faces of which are numbered 7, 8, 9, 10, 11 and 12 .


What will be the sum of the number 8 and the number on its opposite face?
Ans
X 1.20
$\times 2.19$
-3. 17
$\times 4.18$
Q.20Selt the option that represe
to ecnts the letters which when sequentially placed from left right in the blanks below will complete the letter series.
$P_{-} I_{-} Y Y_{-} O_{-} U Y P_{-} K U_{-} P O_{-} Y$
Ans $\quad$ 1.0UPJOYKU
X2.OVPJOYKU3.
XOUPIOYLU4.0
จUPJOYLU
Q. 21 In a certain code language, 'COURT' is coded as ‘5-77', 'CASE' is coded as '4-28'. How will 'LAWYER' be coded in that language?
Ans
X 1 1.6-48
X 2. 7-84
3. 6-84

X4.7-48

Question ID : 2643307033
Q.22Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Evacuate
2. European
3. Etymologist
4. Eudemonic
5. Eurotium
6. Eucalypt

Ans

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

X 2, 3, 6, 4, 2, 1, 5
X 3,3,6,2, 4, 5, 1
X4.3,2,6,4,5,1
Q.23Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (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)
Lace: Shoe
Ans

1. Lemon : Fruit
2. Salt : Pepper

X 3. Bud : Flower
4. Clip: Hair
Q.24In ac
h ertain code language, 'COSTLY' is written as '470', 'COFFEE' is written as '200',ow will 'CORNER' be written in that language?
Ans
X 1.390
X 2. 380
X 3.400

- 4.365
Q.25Amit said that his father's mother's only daughter-in-law's daughter's father gave him
a gift. Who gave the gift to Amit?
Ans
X 1. Brother

2. Father

X 3. Grandfather
X 4. Uncle

## Section : English Language

Q. 1 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

The heading of the newspaper shout at the readers to stay inside their homes.
Ans
X 1. had shouted at the reader
X 2. No improvement required
3 3. will shout at the reader
4. shouted at the readers
Q.2Select the option that expresses the given sentence in indirect speech.

He said to the boy, "What are you writing here?"
Ans

1. He asked the boy what he was writing there
2. He asked the boy what is he writing here?

X 3. He said the boy what are you writing there?
$\times 4$. He said to the boy what he is writing here?
Q.3S elect the option that expresses the given sentence in reported speech.

Rajat said, "I submitted my work assignment yesterday."
Ans
$X$ 1. Rajat said that he have submitted his work assignment the previous day.
$X$ 2. Rajat said that he had submitted his work assignment yesterday.
3. Rajat said that he had submitted his work assignment the previous day.4. Rajat said that he submitted his work assignment yesterday
Q.4Select the most appropriate option that can substitute the underlined segment in the given sentence.
Extreme sadness and pitiful cries of people filled the whole atmosphere.
Ans
$X$ 1. The effecting cries
$X$ 2. The continuous cries
3. The heart rending cries
$X$ 4. The loud cries
Q.5In the given sentence, a word is given in brackets. Select the most appropriate ANTONYM of the word to fill in the blank.

This is a/an $\qquad$ (fertile) land. Crops do not grow here.

Ans
$X 1$. hard
$X$ 2. inexpensive
3. barren

X 4. fruitful
Q.6Select the most appropriate meaning of the given idiom.

Speak of the devil
Ans
$X$ 1. The person we were talking about never appeared
$X$ 2. The person we were talking about was guilty
3. The person we were just talking about showed up
$X$ 4. The person we were talking about was a devil in disguise

Q 7 lect the most appropriate option to fill in the blank.
Freud's work with free association, dream analysis and the unconscious was of im
agination. 1. farthest
Ans
$X$ 2. hugest
$\times 3$.
remotest
4. utmost
Q.8Select the option that expresses the given sentence in direct speech.

The policeman asked us whether we recognised the person in the photo.
Ans

1. The policeman said, "Do you recognise the person in the photo?"

Х 2. The policeman said, "Do you recognised the person in the photo."
X 3. The policeman said, "Whether you recognise the person in the photo."
X 4. The policeman said, "Did you recognised the person in the photo?"
Q.9Select the option that expresses the given sentence in passive voice.

She will be wearing a pink dress to the wedding.
Ans

1. A pink dress will be wear by her to the wedding.
2. A pink dress will be worn by her to the wedding.
3. A pink dress would be worn by her at the wedding.
4. A pink dress would be worn by her to the wedding.
Q.10Select the INCORRECTLY spelt word.

Ans
X 1. Palatial
$X$ 2. Essential
X 3. Ancestral
4. Magificent
Q. 11 Sc
n elet the option that will improve the underlined part of the given sentence. In caseo improvement is needed, select 'No improvementrequired'.
Ram is a hardworking men.
Ans

1. hardworking man

X 2. No improvement required
X 3. working men
X 4. working hard man
Q.12Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Vikram was a fashion designer who made clothes out of sustainable materials.
Ans
$\chi$ 1. whom made clothes
X 2. who makes clothes
X 3. who make clothes
4. No improvement required
Q. 13 Select the INCORRECTLY spelt word in the following sentence.

Aggressive and violent natured people often don't engage in fruitful arguements.
Ans
$X$ 1. fruitful
X 2. aggressive
3. arguements

X 4. natured
Q.14Identify the option that rectifies the error in tense in the given sentence.

The mall just opened and the visitors arrived now.
Ans

- 1. 2. The mall has just opened and the visitors have arrived. 2.
$\chi$ The mall has just been opening and the visitors arrived. 3.
$\chi$ The mall just opens and the visitors arrives.

4. The mall is just opening and the visitors are arriving.
Q. 15 S elect the most appropriate synonym of the given word.

Alacrity
Ans

1. Willingness

X 2. Capriciousness
X 3. Pleasure
X 4. Mediocrity

## 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.
Stray dogs reside on the streets or in neighbourhoods and slums, where they feed on unsanitary waste made by the people who (1) $\qquad$ there. They frequently do not have enough food to eat, and as a result, the majority of them (2) malnourished. Local area (3) $\qquad$ is also a source of worry, as just a few individuals treat them with kindness, while the majority regard them as a (4) $\qquad$ In addition, they are subjected to harsh practices such as (5) _______________-_, and beating.

SubQuestion No: 16
Q.16Select the most appropriate option to fill in blank no. 1.

Ans
$X$ 1. lived
X 2. living
$X$ 3. lives
4. live

## 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.
Stray dogs reside on the streets or in neighbourhoods and slums, where they feed on unsanitary waste made by the people who (1) $\qquad$ there. They frequently do not have enough food to eat, and as a result, the majority of them (2) malnourished. Local area (3) $\qquad$ is also a source of worry, as just a few individuals treat them with kindness, while the majority regard them as a (4) $\qquad$ In addition, they are subjected to harsh practices such as (5) $\qquad$ and beating.

SubQuestion No: 17
Q.17Select the most appropriate option to fill in blank no. 2.

Ans
X 1. will be
$X$ 2. is
3. are4. has been

## 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.
Stray dogs reside on the streets or in neighbourhoods and slums, where they feed on u nsanitary waste made by the people who (1) $\qquad$ there. They frequently do not have enough food to eat, and as a result, the majority of them (2) $\qquad$ malnourished. Local area (3) $\qquad$ is also a source of worry, as just a few individuals
treat them with kindness, while the majority regard them as a (4) $\qquad$ In addition, they are subjected to harsh practices such as (5) $\qquad$ and beating.

SubQuestion No: 18
Q.18Select the most appropriate option to fill in blank no. 3 .

Ans

- 1. behaviour
$X$ 2. office
X 3. instructor
X 4. network

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. Stray dogs reside on the streets or in neighbourhoods and slums, where they feed on unsanitary waste made by the people who (1) $\qquad$ there. They frequently do not have enough food to eat, and as a result, the majority of them (2) malnourished. Local area (3) $\qquad$ is also a source of worry, as just a few individuals
treat them with kindness, while the majority regard them as a (4) $\qquad$ . In addition, they are subjected to harsh practices such as (5) $\qquad$ and beating.

SubQuestion No : 19
Q.19Select the most appropriate option to fill in blank no. 4.

Ans
X 1 . holy
X 2. playmate
X 3.relief
4. nuisance

## 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.
Stray dogs reside on the streets or in neighbourhoods and slums, where they feed on unsanitary waste made by the people who (1) $\qquad$ there. They frequently do not have enough food to eat, and as a result, the majority of them (2) malnourished. Local area (3) $\qquad$ is also a source of worry, as just a few individuals
treat them with kindness, while the majority regard them as a (4) $\qquad$ . In addition, they are subjected to harsh practices such as (5) $\qquad$ and beating.

## SubQuestion No : 20

Q.20Select the most appropriate option to fill in blank no. 5 .

Ans
$\times 1$. hating
2. poisoning3. loving

X4. avoiding

Comprehension:
Read the given passage and answer the questions that follow.
The common sunflower is valuable from an economic as well as from an ornamental point of v iew. The leaves are used as fodder, the flowers yield a yellow dye, and the seeds contain oil and are used for food. The sweet yellow oil obtained by compression of the seeds is considered equal to olive or almond oil for table use. Sunflower oil cake is used for stock and poultry feeding. The oil is also used in soap and paints and as a lubricant. The seeds may be eaten dried, roasted or ground into nut butter and are common in birdseed mixes.

SubQuestion No : 21
Q. 21 Select a suitable title for the passage.

Ans
$\chi$ 1. Sunflower
Х 2. The Beauty of the Sunflower
X 3. Sunflower Seeds
4. The Uses of the Sunflower

## Comprehension:

Read the given passage and answer the questions that follow.
The common sunflower is valuable from an economic as well as from an ornamental point of view. The leaves are used as fodder, the flowers yield a yellow dye, and the seeds contain oil and are used for food. The sweet yellow oil obtained by compression of the seeds is considered equal to olive or almond oil for table use. Sunflower oil cake is used for stock and poultry feeding. The oil is also used in soap and paints and as a lubricant. The seeds may be eaten dried, roasted or ground into nut butter and are common in birdseed mixes.

SubQuestion No : 22
Q.22Select the most appropriate ANTONYM of the given word.

Ornamental
Ans
$X$ 1. Decorated
X 2. Empty
X 3. Blank
4. Unembellished

## Comprehension:

Read the given passage and answer the questions that follow.
The common sunflower is valuable from an economic as well as from an ornamental point of view. The leaves are used as fodder, the flowers yield a yellow dye, and the seeds contain oil and are used for food. The sweet yellow oil obtained by compression of the seeds is considered equal to olive or almond oil for table use. Sunflower oil cake is used for stock and poultry feeding. The oil is also used in soap and paints and as a lubricant. The seeds may be eaten dried, roasted or ground into nut butter and are common in birdseed mixes.

SubQuestion No : 23
Q.23Identify the tone of the passage.

Ans
X 1. Motivating
X 2 . Humorous
3. Descriptive

X 4. Laudatory

Comprehension:
Read the given passage and answer the questions that follow.
The common sunflower is valuable from an economic as well as from an ornamental point of $v$ iew. The leaves are used as fodder, the flowers yield a yellow dye, and the seeds contain oil and are used for food. The sweet yellow oil obtained by compression of the seeds is considered equal to olive or almond oil for table use. Sunflower oil cake is used for stock and poultry feeding. The oil is also used in soap and paints and as a lubricant. The seeds may be eaten dried, roasted or ground into nut butter and are common in birdseed mixes.

SubQuestion No: 24
Q. 24 Which of the following facts is mentioned in the given passage?

Ans
X 1. Sunflowers can be grown anywhere.
2. The sunflower's leaves, flowers and seeds have many uses.

X 3. Sunflower seeds have no other use except for making oil.
X 4. Oil from sunflower seeds is only meant for human consumption.

Comprehension:
Read the given passage and answer the questions that follow.
The common sunflower is valuable from an economic as well as from an ornamental point of view. The leaves are used as fodder, the flowers yield a yellow dye, and the seeds contain oil and are used for food. The sweet yellow oil obtained by compression of the seeds is considered equal to olive or almond oil for table use. Sunflower oil cake is used for stock and poultry feeding. The oil is also used in soap and paints and as a lubricant. The seeds may be eaten dried, roasted or ground into nut butter and are common in birdseed mixes.

SubQuestion No : 25
Q.25Identify the main theme of the passage.

Ans 1 $\mathbf{1}$ Khe sunflower seeds have varied uses.
2. Wunflower oil is better than almond or olive oil.
3. The sunflower's leaves, flower and seeds have varied economic and ornamental
uses.
4. Xúunflower seeds can be consumed by humans as well as animals.

## Section : Quantitative Aptitude

Q. 1 In a school there are 15 boys and 10 girls in class $X$. The average age of the boys is 16 , while the average age of the girls is 15 . Find the average age of the students in the
class.
Ans $\quad \times 1.15 .8$
2. 15.6
$\times 3.15 .7$
$\times 4.15 .5$
Q.2Spo
$r$ upse the cost of a car increases by $10 \%$ and then decreases by $20 \%$. Due to someeason again the cost increases by $15 \%$. The resulting cost perce decrease is:

Ans
X 1.5\% increase
X 2. 15\% decrease
X 3.1.2\% decrease
4. 1.2\% increase
Q.3What is the third proportional of 4 and 28 ?

Ans
$\times 1.112$

- 2.196
$\times 3.96$
X4.256
Q.4If $A, B$ and $C$ are three angles of a triangle such that $A-B=60^{\circ}$ and $B-C=15^{\circ}$, then
angle $A$ is:
Ans
$\times 1.95^{\circ}$
$\times 2.100^{\circ}$
) 3. $105^{\circ}$
$\times 4.115^{\circ}$
Q. 5 If $\operatorname{cosec} A=\frac{5}{4}$, then what is the value of $\tan A$ ?

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

- 3. $\frac{4}{3}$
$\times 4 . \frac{3}{4}$
Q. 60
b n a construction site, Pankaj and Tarun are two workers who have been assigned toreak the stones for flooring. Pankaj can complete the work a will take 24 h . They decided to work on the alternate hours so that they can take rest in between. Pankaj starts in the first hour and then Tarun and so on. In how many hours
w ill they complete the work together if they work on the basis of alternate hours?
Ans
X1. 21

2. 19
$\times 3$. 22
$\times 4.23$
Q.7In a class, the average age of the students is 17 years. The average age of the boys is 17.4 years while the average age of the girls is 16.8 years. Find the number of girls in the class if there are 21 boys.
Ans
X1. 40
X2. 36
$\times 3.21$
v. 42

## Q. 8 Simplify.

$(5 x+4 y)^{2}+(5 x-4 y)^{2}$
Ans
x 1. $32 \mathrm{x}^{2}+50 \mathrm{y}^{2}$
2. $50 \mathrm{x}^{2}+32 \mathrm{y}^{2}$
$x^{3 .}-80 x y$
$x^{4} 80 x y$
Q. 9 The following table shows the percentage of marks obtained by 5 students in different subjects. Study the table carefully and answer the question based on the table.

| Students | Subjects |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Chemistry <br> 300 | Mathematics <br> 300 | Physics <br> 150 | Hindi <br> 300 | English <br> 200 |
|  | 60 | 85 | 90 | 80 | 65 |
| Shyamu | 65 | 70 | 60 | 75 | 65 |
| Mohan | 70 | 75 | 80 | 65 | 85 |
| Shobh | 60 | 65 | 60 | 85 | 80 |
| Sushil | 65 | 75 | 70 | 60 | 75 |

The total marks obtained by Raju are:
Ans
X 1.904
2. 940

X 3.9004.840
Q.10A jrney of 180 km takes 6 ho
k ouurs more when the speed of a bike is reduced by $8 \mathrm{~m} / \mathrm{h}$. What is the original speed of the bike?
Ans
X $1.25 \mathrm{~km} / \mathrm{h}$
X $2.15 \mathrm{~km} / \mathrm{h}$
X $3.30 \mathrm{~km} / \mathrm{h}$

- $4.20 \mathrm{~km} / \mathrm{h}$
Q. 11 Simplify the expression $\left(\frac{p}{q}\right)^{10}+\left(\frac{q}{p}\right)^{10}$ if $\frac{p}{q}+\frac{q}{p}=2$.

Ans
21. 2
$\times 2.0$
X 3.1
$\times 4$.
$-1$
Q. 12 Find the average of $3^{20}, 3^{30}, 3^{40}$

Ans
$x_{1} .\left(3^{20}+3^{10}+3^{40}\right)$
$x^{2 .} 3^{30}$
$x^{3 .}\left(3^{20}+3^{30}+3^{40}\right)$
4. $\left(3^{19}+3^{29}+3^{39}\right)$
Q.13Raheem sold a crockery set for ₹ 1,092 at a profit of $20 \%$. What would have been the actual percentage profit or loss on it, if he sold it for ₹950 (rounded to two decimal places)?
Ans $\quad \times 1.5 .40 \%$ loss
X 2. 4.40\% loss
X 3.5.40\% profit

- 4. $4.40 \%$ profit
Q. 14 The following table shows the different types of cars sold by a company over the given years (numbers in thousands).

| Year | Types |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | A | B | C | D | E |
| 2007 | 15 | 12 | 10 | 8 | 9 |
| 2008 | 10 | 10 | 13 | 12 | 12 |
| 2009 | 25 | 10 | 12 | 19 | 18 |
| 2010 | 12 | 18 | 13 | 12 | 12 |
| 2011 | 19 | 12 | 12 | 14 | 14 |
| 2012 | 15 | 14 | 14 | 14 | 15 |

The percentage of type A cars sold out of the total number of cars sold was maximum in which year?
Ans
X 1.20102. 2009

X 3.2008
$\times 4.2007$
Q. 15 In a 1400 m race John reaches the finish point in 1 min 6 sec , while James reaches the finish point in 77 sec . By how much distance does John beat James?
Ans
X 1.180 m
2. 200 m
$\times 3.220 \mathrm{~m}$
X 4.240 m
Q. 16 Study the given table and answer the question that follows.

The table shows the marks of four girls in four different subjects. (Maximum Marks: 50)

| Subject/Girls | Mona | Shweta | Divya | Ruchi |
| :---: | :---: | :---: | :---: | :---: |
| Hindi | 29 | 31 | 32 | 36 |
| English | 39 | 35 | 37 | 32 |
| Mathematics | 38 | 42 | 40 | 45 |
| Science | 47 | 41 | 43 | 35 |

What per cent did Ruchi secure overall in the exam?
Ans
X 1.72\%
2. $74 \%$
$\times 3.73 \%$
X4.71\%
Q.17What is the percentage profit on selling a car at Rs.6,00,000, whose cost price was

Rs.5,00,000?
Ans 1. $20 \%$
$\times 2$.
X 16.67\%
$\times 3$.
21.33\%

## Q. 18 The value of $\sin ^{2} \frac{2 \pi}{3}+\cos ^{2} \frac{5 \pi}{6}-\tan ^{2} \frac{3 \pi}{4}$ is :

Ans
X1. 2
-2. $\frac{1}{2}$
$x_{3}, \frac{1}{4}$
$x^{4 .} 4$
Q. 19 If two types of pulses costing ₹ 97 per kg and ₹ 105 per kg are mixed in the ratio of $5: 3$, then what is the cost of the resulting mixture?

Ans
$X_{1 .}$ ₹101
X 2. ₹103
3. ₹100

X4.₹99
Q.20Find the area of a trapezium having height 7 cm and the length of parallel sides 8 cm and 12 cm .
Ans
X 1.100 cm 2
$\times 2.35 \mathrm{~cm} 2$
-3. 70 cm 2
X 4.140 cm 2
Q.21The marked price of a washing machine is ₹25,000 and it is available with two successive discounts of $12 \%$ and $10 \%$. Find its final price for a customer.
Ans

1. ₹19,800

X 2. ₹19,500
X 3 . ₹ 20,000
X4. ₹19,000
Q.22Find the interest accrued on a sum of Rs.1,680 in two years,at the rate of 4.375\% simple interest per annum.
Ans
X 1. Rs.73.50
X 2. Rs.1,470
X 3.Rs. 735
4. Rs. 147
Q. 23 T he areas of two similar triangles are 225 cm 2 and 196 cm 2 . If the largest side of the larger triangle is 30 cm , then the longest side of the smaller triangle is:
Ans
X 1.22 cm
X 2.24 cm
X 3.26 cm4.28 cm
Q.24A number is first increased by $5 \%$ and then it is further increased by $15 \%$. The original number increased altogether by:

Ans

1. $20.75 \%$

X 2. 19.75\%
X 3.22.75\%
$\times 4.21 .75 \%$
Q.25In a test, Arjun was asked to calculate the mean proportional of 20 and 320 . What is the correct answer that Arjun should give?
Ans
X1. 170
2. 80
$\times 3$
3. 40
4.60

## Section : General Awareness

Q. 1 What is the average salinity of the Indian ocean?

Ans $\times 1.350$
, o/00 2. 35
X о/00 3. 3.5
Xo/00 4. 3
o/00
Q.2Which scheme is NOT proposed to be covered under the Pradhan Mantri Swasthya Suraksha Nidhi?
Ans
X 1. Ayushman Bharat - Health and Wellness Centres (AB-HWCs)
X 2. Ayushman Bharat - Pradhan Mantri Jan Arogya Yojana (AB-PMJAY) 3.
X Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)
4. Rashtriya Swasthya Aashwasan Yojana (RSAY)
Q.3W hich is the world's longest highway tunnel?

Ans $\quad$ 1. Dr. Syama Prasad Mookerjee Tunnel
2. Atal Tunnel

X 3. New Katraj Tunnel
X 4. Maliguda Tunnel
Q.4Why do atoms and non-polar molecules have no dipole moment?

Ans $\quad \times 1$. Because their electronic charge cloud is missing
X 2. Because their electronic charge cloud is scattered
3. Because their electronic charge cloud is asymmetrically distributed
4. Because their electronic charge cloud is symmetrically distributed
Q.5What is the tenure of the Chairperson of National Human Rights Commission?

Ans

1. Three Years
$X$ 2. Five Years
X 3. Six Years
$X 4$. Four Years
Q.6Which of the following books was longlisted for the Booker Prize 2021?

Ans

1. China Room

X 2. Ours are the Streets
X 3. The Year of the Runaways
X 4. Jungle Nama
Q.7Which of the Sustainable Development Goals set by the United Nations aims to achieve universal health coverage that seeks equal access to health services for all men and women?

Ans
X 1. SDG 4
2. SDG 3

X 3. SDG 8
X4.SDG 11
Q.8Which Articles of the Constitu
th tion of India have laid down religious freedom, includinge freedom to wear religious clothing?
Ans
X 1. Article 23-27
2. Article 25-28
$\times$
3. Article 24-28

X 4. Article 27-30
Q.9The Hornbill festival is celebrated in which of the following states to promote its cultural heritage?
Ans
X 1. Meghalaya
X 2. Assam
3. Nagaland
4. West Bengal
Q.10Bahlol Lodi was succeeded by his son $\qquad$ under the title of Sultan Sikandar
Shah in 1489.
Ans

1. Nizam Khan

X 2. Khizr Khan
X 3. BahlulShah
X4. Sher Shah
Q.11From which direction do the magnetic lines emerge?

Ans

- 1 1. North pole

X 2. Centre
X
3. South pole

X4. тор
Q.12Who was the Minister of External Affairs as of January 2022?

Ans $\quad \times 1$. John Barla
X 2. Bhanu Pratap Singh Verma
3. Dr. Subrahmanyam Jaishankar

X 4. Piyush Goyal
Q. 13 Amarkan
fo tak plateau, Maikal hills and the plateau region of Bilaspur-Katni are knownr the presence of $\qquad$ $\ldots$.
Ans
X 1. mica
2. bauxite
$\times 3$.
$X$ limestone
4. copper
Q.14Who among the following called Netaji Subhash Chandra Bose a patriot of patriots?

Ans $\times 1$. Jawaharlal Nehru
X 2. Chittaranjan Das
3. Mahatma Gandhi

X 4. Pattabhi Sitaramayya
Q. 15 In which of the following dances from Manipur is the drum prominently used as a part of dance movements?
Ans $\times 1$. Luivat Pheizak
X 2. Thang La
3. Pung Cholom

X 4. Shim Lam
Q.16Which of the following states holds the first rank in female literacy as per the 2011
census?
Ans

1. Kerala

X 2. Maharashtra
X 3. Goa
X 4. Mizoram
Q.17Which of the following revolutionary societies was organised by Vinayak Damodar

Savarkar in 1904?
Ans
X 1. Anushilan Samiti
X 2. Bharat Naujawan Sabha
X 3. Jugantar Party
4. Abhinav Bharat Society
Q.18According to the poverty statistics in India (2011-12), which group has the lowest p ercentage of population below the poverty line?
Ans $\quad$ 1. Rajasthan and Bihar
2. Goa and Kerala

X 3. Odisha and Tripura
X 4. Mizoram and Nagaland
Q.19Name the first Indian woman to win a Gold at Paralympics.

Ans
X 1. Deepa Mehta
X 2. Apoorvi Chandela
3. Avani Lekhara

X 4. Bhavinaben Patel
Q.20Ministry of Housing and Urban Affairs (MoHUA) signed a memorandum of understanding (MoU) with which of the following companies for the PM SVANidhi scheme in February 2021?
Ans
X 1. Swiggy
X 2. Uber Eats
X 3. Faaso's
4. Zomato
Q.21What is the name of the scheme proposed as a single non-lapsable reserve fund for a share of health from the proceeds of health and education cess?
Ans

1. Pradhan Mantri Swasthya Suraksha Nidhi

Х 2. National Digital Health Mission
X 3. Intensified Mission Indradhanush 3.0
X 4. Ayushman Bharat Pradhan Mantri Jan Aarogya Yojana
Q.22Who was the architect of the famous Mysore Palace in Karnataka?

Ans

1. Henry Irwin

X 2. William Emerson
X 3. Fredrik William Stevens
X 4. Edwin Lutyens
Q.23Who the following personalities was conferred with the National Nritya

S amonghiromani Award 2022?
Ans
X 1. Chitra Virudhu
2. Aparna Satheesan

X 3. Vajayanti Kashi
X 4. Yamini Krishnamurthy
Q.24Which is NOT correct about the Election Commission of India?

Ans $\quad$ 1. They hold a six-year term or continue till the age of 65 , whichever is earlier.
2. Khey are appointed by the President of India

X 3. The Election Commission is a multi-member body consisting of a Chief Election Commissioner and two other Election Commissioners.
4. The CEC enjoys more powers than the other two Election Commissioners.

## Q.25Which of the following Viceroys of British India took the first step to separate

provincial finance from central finance and introduced financial decentralisation in India in 1870?
Ans
X 1. Lord Chelmsford
X 2. Lord Northbrook
3. Lord Mayo

4 4. Lord Dufferin
Q.12Find the ratio of the curved surface area to the total surface area of a cylinder with d iameter of base 14 cm and height 10 cm .

Ans
$\times 1 \frac{11}{17}$
2. $\frac{5}{17}$

X 3. $\frac{13}{17}$
ง. $\frac{10}{17}$
Q.13P buys an article for Rs. 280 and sells it to $Q$ at a profit of $25 \%$. $Q$ sells it to $R$ at some profit. R sells it to S for Rs. 560 making a profit of $40 \%$. What percentage profit (rounded off to the nearest integer) did Q make?
Ans
X 1. 26 Percent
2. 14 Percent

X 3. 32 Percent
X 4.20 Percent
Q. 14 Study the given table and answer the question that follows.

The table shows the production (in thousands) of four different types of tractors by a company during five years.

| Year/Tractor <br> Type | Type-A | Type-B | Type-C | Type-D |
| :---: | :---: | :---: | :---: | :---: |
| 2010 | 18 | 25 | 12 | 19 |
| 2011 | 15 | 24 | 14 | 10 |
| 2012 | 23 | 13 | 17 | 13 |
| 2013 | 17 | 23 | 12 | 11 |
| 2014 | 14 | 26 | 20 | 18 |

Which type of tractor has same production in the years 2010 and 2013?
Ans
X 1. Type - B
2. Type - C

X 3. Type - A
X 4. Type-D
Q.15What is the average of the following observations?
$2.5,3.25,4.75,7.5,3,4,3$
Ans $\times 1.3 .5$
$\times 2.4 .18$
$\times 3.4 .5$
4.4
Q. 16 W hat is the fourth proportional of 21,56 and $27 ?$

Ans

1. 72
$\times 2.81$
X 3.54
$\times 4.96$
Q.17Only two candidate were contesting against each other in an election of a village. One candidate got $43.5 \%$ votes and was defeated by 3744 votes. How many votes did the winning candidate get?
Ans
X 1.16500
2. 16272
$\times 3.15275$
X4. 16200
Q. 18 If $P=\frac{x^{2}-100}{x^{2}-16}$ and $Q=\frac{x+10}{x-4}$, then the value of $\frac{P}{Q}$ is:

Ans
⒈ $\frac{x+10}{x+4}$
2. $\frac{x-10}{x+4}$
3. $\frac{x+10}{x-4}$

⒋ $\frac{x-10}{x-4}$
Q. 19 The following figure shows the expenditures incurred by Rohan in different heads. Rohan has a monthly income of $₹ 50,000$ out of which he spends $60 \%$ on different expenditures. What is the total expenditure (in ₹) incurred on Health, Education and Transportation together?

Amount spent on different expenditures


Ans

1. Rs.16,800

X 2. Rs.15,800
X 3. Rs.28,000
X 4.Rs.18,000
Q. 20 W hat is the third proportional of 6 and 18?

Ans $X_{1.36}$
X 2.42
-3. 54
$\times 4.48$
Q.21The mean weight (in kg ) of four students is 30 . The weights of three of them are 42 kg ,

28 kg , and 24 kg . What is the weight (in kg ) of the fourth student?
Ans $\quad \times 1.25$
-2. 26
$\times 3.32$
$\times 4.41$
Q. 2 ₹ 21,000 is lent at compound interest of $10 \%$ p.a. for three years. Find the amount.

2 1. ₹ 27,951
Ans
X 2. ₹6,951
X 3. ₹27,000
X 4. ₹28,951
Q.23A student wants to know the area of a rhombus, one of whose diagonals is 6 cm . He measures another diagonal as 8 cm . What is the area of the rhombus?
Ans
$X 1.25 \mathrm{~cm} 2$
X 2.20 cm 23. 24 cm 2
4.48 cm 2
Q.24A person received a yearly salary hike of $15 \%, 20 \%$, and $25 \%$ in 3 successive years. What is the total salary of the person after 3 years if his initial salary was Rs. 20,000 ?
Ans
X 1. Rs.30,000
X 2. Rs.35,000
X 3. Rs.32,500
4. Rs.34,500
Q.25The sum of three prime numbers
th is 90 . If one them exceeds another by 30, then one ofe numbers is:
Ans
$\times 1.41$
X 2.67
$\times 3.47$

- 4.59


## Section : General Awareness

Q. 1 Which is NOT correct about the Directive Principles of the State Policy?

Ans $\quad \times 1$. They are mentioned in Part IV of the Constitution of India.
X 2. They aim to establish a welfare state in India.
X 3. They are a novel feature of the Constitution of India.
4. They are justiciable in nature.
Q.2What happens to the magnetic field produced by a given current in the conductor
when the distance increases?
Ans
X 1 . It stops
$X$ 2. It increases
3. It decreases

X 4. It stays the same
Q.3In Union Budget 2021-22, PLI schemes for 13 key sectors of manufacturing starting from fiscal year (FY) 2021-22 have been announced. The full form of PLI is:
Ans
X 1. Performance Linked Incentive
X 2. Performance Liability Indemnity
3. Production License Indemnity
4. Production Linked Incentive
Q.4Which is NOT correct about the original jurisdiction of the Supreme Court?

Ans 17t can hear any dispute between two or more states.
2. It can hear any dispute between the Government of India and any state or states on one side and one or more states on the other.
3. It can hear ordinary dispute of commercial nature between the Government of India
and the states
4. $\mathbb{Z}$ can hear any dispute between the Government of India and one or more states.
Q.5A
p ccording to the Census of India 2011, what is the percentage of the urbanopulation?
Ans

1. $31.16 \%$

X2. $27.78 \%$
$x^{3 .} 23.34 \%$
$x^{4 .} 25.71 \%$
Q.6The Reserve Bank of India (RBI) has introduced a PCA framework for large non-
banking financial companies (NBFCs) with effect from October 2022, putting
restrictions whenever vital financial metrics dip below the prescribed threshold. What is PCA?

Ans $\quad$ 1. Prompt Coordinated Action
2. Prompt Corrective Action

X 3. Phased Coordinated Action
X 4. Phased Corrective Action
Q. 7 $\qquad$ introduced the daroga system, replacing zamindari thanedars under the direct control of the district head and on its payroll.
Ans $\quad \times$ 1. Lord Minto I
2. Lord Cornwallis

X 3. Lord Hastings
X 4. Lord Wellesley
Q.8According to poverty statistics in India (2011-12), what is the percentage of population in Chandigarh, below the poverty line?
Ans

1. $21.81 \%$

X 2. 2.77\%
X 3. $9.91 \%$
X4. $9.86 \%$
$\qquad$ in the second half of the nineteenth century.
Ans
X 1. Calcutta Presidency
2. Bombay Presidency3. the Central Provinces
4. the United Provinces
Q.10Which of the following statements about Bharat Naujawan Sabha is INCORRECT?

Ans
X 1. It was founded in Punjab.
2. Bhagat Singh became its founding secretary.
3. It was established in 1927.4. It started political work among the youth, peasants, and workers.
Q.11Deficiency of which vitamin causes symptoms like tingling in the tongue, anaemia, white patches on the skin, mouth ulcers and shortness of breath?
Ans
X 1. Vitamin K
2. Vitamin B12

X 3. Vitamin E
X 4. Vitamin B1
Q.12Who among the following was the Wazir of Sultan Iltutmish?

Ans
X 1. Sai'd Fakhr-I-Mudabbir
X 2. Malik Naik
3. Nizam ul-Mulk Junaidi

X4. Nusrat Khan
Q.13Which of the following launched 'SAGE' initiative on 4 June 2021?

Ans $\quad$ 1. Ministry of Education
X 2. NITI Aayog
X 3. Ministry of Women and Child Welfare
4. Ministry of Social Justice and Empowerment
Q. 14 W hich is the most suitable soil for growing coffee in India?

Ans

1. Black Soil

X 2. Red Soil
3. Laterite soil

X4. Alluvial Soil
Q.15Shakoor Khan, Pandit Ram Narayan, Ramesh Mishra, Sultan Khan and Ustad Binda Khan are noted players of which of the following instruments?
Ans
X 1. Rudra veena
X 2. Santoor
3. Sarangi

X 4. Jal-tarang
Q. 16 Who is recognised as the founder of the Lucknow Gharana of Kathak?

Ans
X 1. Birju Maharaj
2. Ishwari Prasad

X 3. Rukmini Devi
X 4. Sitara Devi
Q.17Which of the following dances is traditionally performed by tea cultivators in Assam?

Ans
$\times$ 1. Bihu
X 2. Deodhani
3. Jhumur

X 4. Bhortal Nritya
Q.18Who is the head of the committee constituted by the Central Government to consider the withdrawal of AFSPA from Nagaland?

Ans
X 1. Ajay Kumar Bhalla
2. Vivek Joshi

X 3. Rajiv Gauba
X 4. Piyush Goyal
Q. 19 Bu
p ilders of which of the following temples had constructed a 4 km long incline forlacing 90 tonnes of stone on top of the tallest shikhara amongst
Ans
$\times 1$. The Sun Temple
2. Rajarajeshvara Temple

X 3. Kandhariya Mahadeva Temple
X 4. Gangadikondha Temple
Q.20In the 1920s, who created the Left-Step Periodic Table (LSPT) of the chemical
elements, basing the positions of the elements on patterns in the arrangement of electrons around the atomic nucleus?
Ans
$\times 1$. Glenn Seaborg
X 2. Lothar Meyer
3. Charles Janet4. Dmitri Mendeleev
Q.21Who among the following as the Governor administered the oath to the CM of Assam, Himanta Biswa Sarma, in 2021?
Ans
X 1. Padmanabha Balakrishna Acharya
X 2. Ganga Prasad
X 3. Jagdeep Dhankhar
4. Jagadish Mukhi
Q.22Which mineral found in Koderma and Giridih districts of Jharkhand is used for power industry, paint and pigment industry etc.?
Ans
X 1. Quartz
2. Mica

X 3. Asbestos
X 4. Kyanite
Q.23Who among the following is NOT appointed by the President of India?

Ans
X 1. Ambassadors and High Commissioners
X 2. Comptroller and Auditor General of India
X 3. Attorney General of India
4. Solicitor General of India
Q. 24 W here is the headquarters of Food Corporation of India located?

Ans $\quad$ 1. Kolkata
2. New Delhi

X 3. Hyderabad
X 4. Bhubaneswar
Q.25The Champaran Mela is celebrated every year in which city of Chhattisgarh?

Ans $\quad \times$ 1. Bilaspur
2. Raipur

X 3. Raigarh
X 4.Korna

