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| Exam Date | 02/08/2022 |
| Exam Time | $2: 30$ PM - 3:30 PM |
| Subject | Selection Post Phase X Graduate Level |

## Section : General Intelligence

Q. 1 In a code language, 'BRACE' is written as 'GECTD' and 'DORM' is written as 'OTQF'.

How will 'INQUEST' be written in that language?
Ans

1. VUGWSPK
2. VUGWSPJ
3. VUGWSTK
4. VUGWSTJ
Q.2Select 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.Economist
2.Earlier
3.Ecology
4.Embarrass
5.Emergency

Ans

1. 2, 3, 1, 4, 5

X 2. 2, 1, 3, 5, 4
X 3.2,3,1,5, 4
X4.2,1,3,4,5
Q.3In a certain code language, 'CATHOLIC' is written as '79', 'AUDIENCE' is written as '70', how will 'ASSEMBLY' be written in that language?
Ans
X 1.109
X2. 108
$\times 3.100$

- 4.104
Q. 4 Wi
in hch two numbers (not the digits of the numbers) and two signs should beterchanged to make the given equation correct? $25 \div 12 \times 5-36+24=72$

Ans $\times 1.5$ and $12 ; \times$ and -
2. 5 and 12 ; + and -
$\times 3.36$ and $25 ; \times$ and +
X 4.24 and 5 ; + and -
Q.5Pointing towards a woman, Allwyn said, "She is the mother of my brother's son's brother's mother's husband." How is that woman related to Allwyn's brother?
Ans
X 1. Mother's sister
2. Mother

X 3. Mother's
X mother 4. Sister
Q.6Which letter-cluster will replace the question mark (?) and complete the given series? UZVD, SCTG, ?, OIPM, MLNP
Ans

1. QFRJ

X 2. PFRJ
X 3. PFSJ
X4. QFSJ
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)
Room heater : Winter
Ans

1. Raincoat : Monsoon

X 2. Leaves: Autumn
3 3. Heat: Summer
X 4. Wind: Spring
Q.8In aertain code
a c language, 'LENGTH' is written as 'MDKGSF' and 'ESCAPE' is writtens 'BRDDOZ'. How will 'MARGIN' be written in that language?
Ans
X 1 . QZLFMH
X 2. QLZMHF
3. QZLMHF

X4. QZLFHM
Q. 9 Select the figure that will replace the question mark (?) in the following series.



Ans

Q. 10 W hich of the following numbers will replace the question mark (?) in the given series?

13, 21, ?, 69, 133
Ans
X 1. 52

- 2. 37

X 3.33
$\times 4.41$
Q. 11 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 /deleting /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)
$(7,35,42),(4,20,24)$
Ans
$X_{1 .}(8,56,72)$
2. $(9,45,54)$

X 3. $(6,36,48)$
X $4 .(12,60,48)$
Q. 12 Two positions of a cube are shown. What will come opposite to the face showing '@'?


Ans
$X_{1 .}$
2. 1

X $3 . \infty$
$\times 4$.
$\nabla$
Q. 13 In a code language, 'TRAIN' is written as 'PKCTV' and 'MESH' is written as 'JUGO'.

How will 'OMBRE' be written in that language?
Ans
X 1 . QODTG
X 2. GODTQ
$\times 3$
3. GTDQQ
4. GTDOQ
Q.14In rtain code
c a ce language, 'he loves children' is written as 'AA CC PP', 'children likeandies' is written as 'ZZ PP QQ' and 'she loves candies' is written as 'QQ A
What is the code for the word 'like' in that language?
Ans
X 1. PP
X 2. NN
3
3. $Z Z$
$\times 4 . \mathrm{QQ}$
Q.15Three 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:
All tigers are fishes.
No elephant is a tiger.
Some deer are tigers.
Conclusions:
I. Some fishes are deer.
II. No elephant is a deer.
III. No deer is a fish.

Ans
X 1. Only conclusion I and III
follow. 2. Only conclusion I
$X$ follows.
X 3. Only conclusion II follows.
4. Only conclusion I and II follow.
Q.16Select 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: Badminton
Ans

1. Cue : Billiards

X 2. Kohli : Cricket
X 3. Wash: Dishes
X 4. Ronaldo : Football
Q.17Select 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.)
Loss : Profit :: Expense : ? $\qquad$
Ans
$\chi$ 1. Spend
X 2. Tax
3. Income

X4. Earn
Q. 18 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$x_{1}$

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q.19Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Editorial
2. Education
3. Edition
4. Effective
5. Effortless
6. Ecosystem

Ans $\quad$ X $_{1.6}, 1,3,2,4,5$
X $2,6,3,2,1,4,5$
3. 6, 3, 1, 2, 4, 5

X4.6,3,1,2,5,4
Q.20'A \# B' m
'A eans ' $A$ is the brother of $B$ '. @ $B$ ' means ' $A$ is the daughter of $B$ '.
' $A$ \& $B$ ' means ' $A$ is the husband of $B$ '.
'A \% B' means ' $A$ is the wife of $B$ '.
If
Ans
V\&S@F\%H\#T@Q, then how is V related to H?

1. Father
2. Daughter's husband

X 3. Father's father
$\times$
4. Wife's father
Q.21Three 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:
All Bananas are Grapes.
All Papayas are Pineapple.
Some Pineapples are Banana.
Conclusions:
(I) Some Papayas are Grapes.
(II) Some Grapes are Pineapples.
(III) Some Bananas are Papayas.

Ans 1. Only Conclusion II follows.
X 2. Both Conclusions I and II follow.
X 3. Only Conclusion I follows.
X 4. Both Conclusions I and III follow.
Q.22Select 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.
CREATION : ETGCVKQP :: UNIVERSE : WPKXGTUG :: PLANET : ?
Ans

1. RNCPGV

X 2. RPCGVN
X 3. RCPNGV
X4.RPGVNC
Q.23In a certain code language, 'CHOICE' is written as '53', 'CHARGE' is written as '52', how will 'CHANCE' be written in that language?
Ans
X 1.50
v2. 44
$\times 3.54$
$\times 4.48$
Q.24Select the option that represents the letters that, when sequentially placed from left to
$r$ ight in the blanks below, will complete the letter series.
NOI _ _ _ RCN _ _ _AERCN_IT_ERC_OITA _ _ C
Ans $X 1$. TEAIOTONERA
X 2. TOANERTAEOI
X 3. TONERATEAIO
4. TAEOITOANER
Q. 25 Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 2$.

$\times 3$.

$\times 4$.

Q. 1 SIct

E ee he most appropriate option to fill in the blank.aster eggs used to be painted chicken eggs, but a modern $\qquad$ is to substitute them with chocolate eggs or plastic eggs filled with confectionery such as jelly beans.
Ans
X 1. legacy
$X$ 2. ethic
X 3.lore
4. custom
Q.2Select the option that expresses the given sentence in passive voice.

Rahim's house is building rapidly.
Ans
$X$ 1. Rahim's house was built rapidly.
$X 2$. House of Rahim has been built
$X$ rapidly. 3. House of Rahim is built
rapidly.
4. Rahim's house is being built rapidly.
Q.3Select the most appropriate synonym of the given word.

DISMAL
Ans

1. gloomy
$\times$ 2. cheerful
$\times 3$.
X encouraging
2. bright
Q.4Select the most appropriate meaning of the underlined word.

The captain disdained the roaring impatience and mutinous disposition of his crews.
Ans

1. Treated with scorn

X 2. Called in question
X 3. Gave due importance
$X$ to 4. Release from
captivity
Q.5Inhe given sentence, a word is

A t given in brackets. Select the most appropriateNTONYM of the word to fill in the blank. The kids are feeling bored, but they are $\qquad$ (eager) to participate in the activities
Ans
X 1. passive
2. reluctant

X 3. nervous
4. repulsive
Q.6Select the most appropriate option that can substitute the underlined segment in the given sentence. Hobby is a work which a man undertakes when he is not working for pleasure.

Ans
X 1. in his available time
2. in his scheduled time
3. in his spare time

X4. in his daytime
Q.7Select the sentence which does NOT have a spelling error.

Ans

1. There is a statutory warning on every packet of
cigerettes. 2. There is a statutory warning on every
X packet of cigarettes. 3. There is a statuary warning on
X every packet of cigarettes. 4. There is a statutory warning on every packet of cigaretes.
Q.8Select the most appropriate option to fill in the blank. Countries like China and the United States invest $\qquad$ in wind, hydro, solar and biofuels.
Ans
$\times 1$.
X profoundly
X 2. achingly
2. 

absolutely
4. heavily
Q.9Select the option that expresses the given sentence in direct speech.

Jaya asked if Riya was doing better than the previous day.
Ans
Х 1. Jaya said to Riya, "Are you doing better than before?"
X 2. Jaya said to Riya, "How are you doing today?"
3. Jaya said to Riya, "Are you doing better than yesterday?"
4. Jaya said to Riya, "If you are doing better than yesterday?"
Q. 10 Selec

It $t$ the most appropriate meaning of the given idiom.'s a piece of cake
Ans
X 1. It's tough
2. It's easy

X 3. It's tasty
X 4. It's horrible
Q. 11 Select the option that can be used as a one-word substitute for the given group of
words.
An arrangement of parts or elements in a particular form or figure
Ans
$\times 1$.
X Amorphousness
2. Delineation

X 3. Configuration
4. Contortion
Q.12Parts of the given sentence have been given as options. One of them contains a spelling error. Select the option that rectifies the error.

Heritage helps us understand our past, apreciate our present and shape our future.
Ans
X 1. present
2. appreciate

X 3. Heritage
$\times 4$.
understand
Q.13Select the option that expresses the given sentence in direct speech.

Harry asked me if I wanted to see magic.
Ans

1. Harry said to me, "Do you want to see

X magic?" 2. Harry said, "If you want to see
X magic?"
X 3. Harry said to me, "If you want to see magic?"
4. Harry said, "Do you want to see magic?"
Q. 14 S elect the option that expresses the given sentence in reported speech.

Nayan asked, "Can I call you back tomorrow?"
Ans
$X 1$. Nayan asked if he could call me back tomorrow.
2. Nayan asked if he could call me back the next
$\boldsymbol{X}$ day. 3. Nayan asked if he can call me back
$X$ tomorrow.
4. Nayan asked if he should call me back

Question ID : 2643305905
Status: 6 Answered
Chosen Option :2
Q. 15 Select the option that will improve the underlined part of the given sentence.

The walls of the temple caved out due to weak construction.
Ans
X 1. apart
$X$ 2. at
$\times 3$.
$\checkmark$ around
4. in

Comprehension:
In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The soft layer of the earth's (1) $\qquad$ on which plants grow is referred to as soil. Soil includes a huge amount of both organic and inorganic (2) $\qquad$ . In the soil, the organic components known as humus are formed from (3) $\qquad$ plant and animal remnants.
These are combined with weathered particles of various rocks to form soil. Weathering occurs as a result of different chemical and physical (4)___ that occur on the earth's surface. Soil formation is a (5) $\qquad$ process in general. For example, the creation of a 2.5 cm thick soil layer might take more than 1000 years.

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

Ans

1. surface
$X$ 2. boundary
$\times$ 3. location
$X$ 4. atmosphere

Comprehension:
In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The soft layer of the earth's (1) $\qquad$ on which in cludes a huge amount of both organic and inorganic (2) $\qquad$ soil components known as humus are formed from (3) $\qquad$ plant and animal remnants. These are combined with weathered particles of various rocks to form soil. Weathering occurs as a result of different chemical and physical (4) $\qquad$ that occur on the earth's surface. Soil formation is a (5) $\qquad$ process in general. For example, the creation of a 2.5 cm thick soil layer might take more than 1000 years.

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

Ans
X components
$X$ 2. solvent
$X$ 3. pesticides
4. plants

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The soft layer of the earth's (1) $\qquad$ on which plants grow is referred to as soil. Soil includes a huge amount of both organic and inorganic (2) $\qquad$ . In the soil, the organic components known as humus are formed from (3) $\qquad$ plant and animal remnants. These are combined with weathered particles of various rocks to form soil. Weathering occurs as a result of different chemical and physical (4) $\qquad$ that occur on the earth's surface. Soil formation is a (5) $\qquad$ process in general. For example, the creation of a 2.5 cm thick soil layer might take more than 1000 years.

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

Ans
X 1. deformed
X 2. deoxidised
X 3. desterilised
4. decomposed

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The soft layer of the earth's (1) $\qquad$ on which plants grow is referred to as soil. Soil includes a huge amount of both organic and inorganic (2) $\qquad$ . In the soil, the organic components known as humus are formed from (3) $\qquad$ plant and animal remnants. These are combined with weathered particles of various rocks to form soil. Weathering occurs as a result of different chemical and physical (4) $\qquad$ that occur on the earth's surface. Soil formation is a (5) $\qquad$ process in general. For example, the creation of a 2.5 cm thick soil layer might take more than 1000 years.

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

Ans
$\times 1$.
X compositions
2. fluctuations

X 3. interactions
4. connections

Comprehension:
In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The soft layer of the earth's (1) $\qquad$ on which in cludes a huge amount of both organic and inorganic (2) $\qquad$ Soil components known as humus are formed from (3) $\qquad$ plant and animal remnants. These are combined with weathered particles of various rocks to form soil. Weathering occurs as a result of different chemical and physical (4) $\qquad$ that occur on the earth's surface. Soil formation is a (5) $\qquad$ process in general. For example, the creation of a 2.5 cm thick soil layer might take more than 1000 years.

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

Ans

1. gradual
$\times 2$.
$X$ chemical
X 3. steep
2. abrupt

## Comprehension:

Read the given passage and answer the question that follows.
Between him and Darcy there was a very steady friendship, in spite of great opposition of character. Bingley was endeared to Darcy by the easiness, openness, and ductility of his temper, though no disposition could offer a greater contrast to his own, and though with his own he never appeared dissatisfied. On the strength of Darcy's regard Bingley had the firmest reliance, and of his judgment the highest opinion. In understanding, Darcy was the superior. Bingley was by no means deficient, but Darcy was clever. He was at the same time haughty, reserved, and fastidious, and his manners, though well bred, were not inviting. In that respect his friend had greatly the advantage. Bingley was sure of being liked wherever he appeared, Darcy was continually giving offence.
The manner in which they spoke of the Meryton assembly was sufficiently characteristic. Bingley had never met with pleasanter people or prettier girls in his life; everybody had been most kind and attentive to him; there had been no formality, no stiffness; he had soon felt acquainted with all the room; and as to Miss Bennet, he could not conceive an angel more beautiful. Darcy, on the contrary, had seen a collection of people in whom there was little beauty and no fashion, for none of whom he had felt the smallest interest, and from none received either attention or pleasure. Miss Bennet he acknowledged to be pretty, but she smiled too much.
Mrs. Hurst and her sister allowed it to be so-but still they admired her and liked her, and pronounced her to be a sweet girl, and one whom they should not object to know more of. Miss Bennet was therefore established as a sweet girl, and their brother felt authorised by such commendation to think of her as he chose.

SubQuestion No: 21
Q. 21 Select the most appropriate title for the passage from the following options.

Ans

1. Darcy and Bingley

X 2. Darcy and Friends
X 3. Bingley and Friends
$\times 4$. The Town of
Meryton

Comprehension:
Read the given passage and answer the question that follows.
Between him and Darcy there was a very steady friendship, in spite of great opposition of c haracter. Bingley was endeared to Darcy by the easiness, openness, and ductility of his temper, though no disposition could offer a greater contrast to his own, and though with his own he never appeared dissatisfied. On the strength of Darcy's regard Bingley had the firmest reliance, and of his judgment the highest opinion. In understanding, Darcy was the superior. Bingley was by no means deficient, but Darcy was clever. He was at the same time haughty, reserved, and fastidious, and his manners, though well bred, were not inviting. In that respect his friend had greatly the advantage. Bingley was sure of being liked wherever he appeared, Darcy was continually giving offence.
The manner in which they spoke of the Meryton assembly was sufficiently characteristic. Bingley had never met with pleasanter people or prettier girls in his life; everybody had been most kind and attentive to him; there had been no formality, no stiffness; he had soon felt acquainted with all the room; and as to Miss Bennet, he could not conceive an angel more beautiful. Darcy, on the contrary, had seen a collection of people in whom there was little beauty and no fashion, for none of whom he had felt the smallest interest, and from none received either attention or pleasure. Miss Bennet he acknowledged to be pretty, but she smiled too much.
Mrs. Hurst and her sister allowed it to be so-but still they admired her and liked her, and pronounced her to be a sweet girl, and one whom they should not object to know more of. Miss Bennet was therefore established as a sweet girl, and their brother felt authorised by such commendation to think of her as he chose.

SubQuestion No : 22
Q.22Select the most appropriate meaning of 'fastidious' from the following options.

Ans
$X 1$. Undemanding
2. Concerned about accuracy and
$X$ detail 3. Queasy
X 4. Prissy

## Comprehension:

Read the given passage and answer the question that follows.
Between him and Darcy there was a very steady friendship, in spite of great opposition of character. Bingley was endeared to Darcy by the easiness, openness, and ductility of his temper, though no disposition could offer a greater contrast to his own, and though with his own he never appeared dissatisfied. On the strength of Darcy's regard Bingley had the firmest reliance, and of his judgment the highest opinion. In understanding, Darcy was the superior. Bingley was by no means deficient, but Darcy was clever. He was at the same time haughty, reserved, and fastidious, and his manners, though well bred, were not inviting. In that respect his friend had greatly the advantage. Bingley was sure of being liked wherever he appeared, Darcy was continually giving offence.
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SubQuestion No : 23
Q.23Who was understanding, clever, haughty and reserved?

Ans
$\times 1$.
Miss
$X$ Bennett
2.

X Bingley
3. Mrs. Hurst
4. Darcy

Comprehension:
Read the given passage and answer the question that follows.
Between him and Darcy there was a very steady friendship, in spite of great opposition of c haracter. Bingley was endeared to Darcy by the easiness, openness, and ductility of his temper, though no disposition could offer a greater contrast to his own, and though with his own he never appeared dissatisfied. On the strength of Darcy's regard Bingley had the firmest reliance, and of his judgment the highest opinion. In understanding, Darcy was the superior. Bingley was by no means deficient, but Darcy was clever. He was at the same time haughty, reserved, and fastidious, and his manners, though well bred, were not inviting. In that respect his friend had greatly the advantage. Bingley was sure of being liked wherever he appeared, Darcy was continually giving offence.
The manner in which they spoke of the Meryton assembly was sufficiently characteristic. Bingley had never met with pleasanter people or prettier girls in his life; everybody had been most kind and attentive to him; there had been no formality, no stiffness; he had soon felt acquainted with all the room; and as to Miss Bennet, he could not conceive an angel more beautiful. Darcy, on the contrary, had seen a collection of people in whom there was little beauty and no fashion, for none of whom he had felt the smallest interest, and from none received either attention or pleasure. Miss Bennet he acknowledged to be pretty, but she smiled too much.
Mrs. Hurst and her sister allowed it to be so-but still they admired her and liked her, and pronounced her to be a sweet girl, and one whom they should not object to know more of. Miss Bennet was therefore established as a sweet girl, and their brother felt authorised by such commendation to think of her as he chose.

SubQuestion No: 24
Q.24Select the synonym of 'dependence' from the passage.

Ans
X 1. Misgiving
2. Reliance

X 3. Relay
X 4. Skepticism

## Comprehension:

Read the given passage and answer the question that follows.
Between him and Darcy there was a very steady friendship, in spite of great opposition of character. Bingley was endeared to Darcy by the easiness, openness, and ductility of his temper, though no disposition could offer a greater contrast to his own, and though with his own he never appeared dissatisfied. On the strength of Darcy's regard Bingley had the firmest reliance, and of his judgment the highest opinion. In understanding, Darcy was the superior. Bingley was by no means deficient, but Darcy was clever. He was at the same time haughty, reserved, and fastidious, and his manners, though well bred, were not inviting. In that respect his friend had greatly the advantage. Bingley was sure of being liked wherever he appeared, Darcy was continually giving offence.
The manner in which they spoke of the Meryton assembly was sufficiently characteristic. Bingley had never met with pleasanter people or prettier girls in his life; everybody had been most kind and attentive to him; there had been no formality, no stiffness; he had soon felt acquainted with all the room; and as to Miss Bennet, he could not conceive an angel more beautiful. Darcy, on the contrary, had seen a collection of people in whom there was little beauty and no fashion, for none of whom he had felt the smallest interest, and from none received either attention or pleasure. Miss Bennet he acknowledged to be pretty, but she smiled too much.
Mrs. Hurst and her sister allowed it to be so-but still they admired her and liked her, and pronounced her to be a sweet girl, and one whom they should not object to know more of. Miss Bennet was therefore established as a sweet girl, and their brother felt authorised by such commendation to think of her as he chose.

SubQuestion No : 25
Q.25What is the central theme of the passage?

Ans
$X$ 1. Darcy and his unlikeable qualities
2. The contrast between Bingley and Darcy
$X$ 3. The similarities between Darcy and
$X$ Bingley 4. Bingley and his attractive qualities
Q. 1 Shalini spends $60 \%$ of her salary. If her salary is increased by $40 \%$ and her expenditure is also increased by $30 \%$, find the percentage increment or decrement in her savings.
Ans

- 1. 

55\%
$X$ increment 2.
X45\% decrement
X 3 . 45\%
increment 4.
55\% decrement
Q.2The current population of a village is 1000 and its population is increasing at the rate of $10 \%$ every year. What will be the population of the village after three years?
Ans
X 1.1100
$\times 2.1500$
-3. 1331
$\times 4.1210$
Q.3A police officer sees a thief from 200 metres. The thief flees, and the police officer pursues him. The thief and the officer are both running at $10 \mathrm{~km} / \mathrm{h}$ and $11 \mathrm{~km} / \mathrm{h}$, respectively. At what distance will the officer apprehend the thief?
Ans
-1.2.2 km
X 2.2 .5 km
X 3.2 km
X4.3 km
Q.4A family saves 30\% of the total income and the savings amount to ₹600 less than half of the expenditure. If the total expenditure is spent on health, food and education in the ratio of $3: 5: 6$, then what amount of expenditure is spent on education?
Ans

1. ₹ 3,600

X 2. ₹1,800
X 3. ₹ 8,400
X4. ₹7,200
Q.5[(sin $\theta \tan \theta+\cos \theta) 2-1]$ is equal to:

Ans2

1. $\tan \theta$

X 2. $\operatorname{cosec} \theta$
X $3 \cdot \sec 2 \theta$
X4. $\sec \theta$
Q.6D etermine the largest angle if the angles of a triangle are in the ratio $3: 4: 5$.

Ans
$\times 1.70^{\circ}$
2. $75^{\circ}$
$\times 3.85^{\circ}$
$\times 4.65^{\circ}$
Q.7A dishonest shopkeeper claims to sell his articles at the cost price but uses 950 gm weight instead of one kilogram weight. What is his profit (rounded off to 1 decimal place) percentage?
Ans
X 1. 4.5 Percent
X 2. 7.8 Percent
X 311.1

- Percent 4. 5.3

Percent
Q. 8 The algebraic expression $25 x^{2}+16 y^{2}+9 z^{2}-40 x y+24 y z-30 z x$ is equal to:

Ans
X 1. $(4 y+3 z-5 x)(4 x+5 y-3 z)$
$x^{2} \cdot(4 y-3 z-5 x)(4 x+5 y+3 z)$
$)^{3 .}(4 y+3 z-5 x)^{2}$
$x^{4 .}(4 y-3 z-5 x)^{2}$
Q. 9 If $x y=6$ and $x^{2} y+x y^{2}+x+y=63$, then the value of $x^{2}+y^{2}$ is:

Ans

1. 69

X2. 59
X 3.70
$\times 4.79$
Q.10A sold an article to $B$ at $25 \%$ profit. B sold it to $C$ at a loss of $12 \%$. If C paid Rs.1,650,
then how much did A pay for it?
Ans
X 1. Rs.1,480
2. Rs. 1,500

X 3. Rs.1,100
X 4. Rs.1,990
Q. 11 Study the given bar-graph and answer the question that follows.

The bar-graph shows the number of shirts manufactured (in thousands) by a company during five years.


What is the percentage decrement in the production of shirts in the year 2015 as compared to 2014 (correct up to two decimals)?
Ans
X 1. 30.12\%
2. $28.57 \%$

X 3. $29.57 \%$
X4.27.37\%
Q. 12 Factorize the given algebraic expression.
$x^{3}+27 y^{3}+64 z^{3}-36 x y z$
Ans
$x^{1} \cdot(x-3 y-4 z)\left(x^{2}+9 y^{2}+16 z^{2}-3 x y-12 y z-4 x z\right)$
$v^{2 .}(x+3 y+4 z)\left(x^{2}+9 y^{2}+16 z^{2}-3 x y-12 y z-4 x z\right)$
$x^{3 .}(x+3 y+4 z)\left(x^{2}+9 y^{2}+16 z^{2}-12 x y-3 y z-4 x z\right)$
$x^{4 .}(x+3 y+4 z)\left(x^{2}+9 y^{2}+16 z^{2}+3 x y+12 y z+4 x z\right)$
Q. 13 In a company, the average salary of all the employees is ₹ 20,000 . The average salary of group-A employees is ₹32,000 while the average salary of group-B employees is
₹ 18,000 . What is the number of employees in group-A if there are 72 employees in group-B?
Ans
$\times 1.9$

- 2.12
$\times 3.6$
X4.8
Q.14Which of the following is a pair of co-primes?

Ans 1. $(25,31)$
X 2. $(32,62)$
X $3 .(31,93)$
X4. $(14,35)$
Q. 15 W hich of the following numbers is NOT divisible by 9 ?

Ans 1. 43516
$\times 2.51543$
X 3.34155
$\times 4.54315$
Q. 16 What is the fourth proportional of $\frac{1}{72}, \frac{1}{168}, \frac{1}{150}$ ?

Ans
x 1. $\frac{1}{375}$
×2. $\frac{1}{275}$
3. $\frac{1}{350}$
×4. $\frac{1}{250}$
Q. 17 If AB is a chord of a circle with radius 5 units and C is a point on the circle such that $\angle \mathrm{ACB}=\frac{\pi}{2}$, then the length of chord AB is:

Ans
2. 10 units

X2. 2.5
$X$ units 3
$\times 7.5$ units
4. 5 units
Q. 1 If $\theta$ is an acute angle and $\sin \theta+\operatorname{cosec} \theta=2$, then the value of $\sin ^{99} \theta+\operatorname{cosec}^{99} \theta$ is:
$8 \times 1 .-1$
Ans $\times 2.1$
$\times 3.0$

- 4.2
Q. 19 A conical vessel has radius 4 cm and its curved surface area is $20 \pi \mathrm{~cm}^{2}$. The volume of conical vessel is:

Ans
$\times 1.18 \pi \mathrm{~cm}^{3}$
$\times 2.12 \pi \mathrm{~cm}^{3}$
X 3. $26 \pi \mathrm{~cm}^{3}$
4. $16 \pi \mathrm{~cm}^{3}$
Q. 20 Study the given graph and answer the question that follows.


What is the difference between the production of rice in state C in 2016 and the production of rice in state B in 2019.
Ans
X 1. 1,00,000 tonnes
X2. $15,00,000$
$\checkmark$ tonnes
3.

X10,00,000 tonnes
4. 10,000 tonnes
Q.21Anil works 3 times faster than Sandeep. If Sandeep can complete a work
independently in 12 days, the number of days in which Anil and Sandeep can together
finish the work is:
Ans
X1.4
$\times 2.2$
-3. 3
$\times 4.5$
Q.22Mohan got a $20 \%$ discount on the marked price when he bought a bag. He sold it for $40 \%$ more than what he paid for it. The profit percentage on the marked price is:
Ans
X $1.11 \%$
X2.15\%
X 3.8\%

- $4.12 \%$
Q.23In a
th hotel, ration is available for 148 persons for 51 days. If 37 persons left the hotel,en for how many days will the remaining ration last? Ans

X1. 69
2. 68
$\times 3.65$
$\times 4.67$
Q.24The average weight of 12 persons is increased by 3.5 kg when one of them whose weight is 56 kg is replaced by a new man. The weight of the new man is:
Ans
X 1.90 kg
X 2. 95 kg
*3. 98 kg
$\times 4.100$
kg
Q. 25 Study the given graph carefully and answer the question that follows.

Marks scored by five students in Science, English and Hindi are shown in the graph.


What is the difference between the total marks obtained by C and the total marks obtained by E?
Ans
X1. 55
X marks
2.

- 50 marks

X3. 60
marks 4
65 marks

## Section: General Awareness

Q. 1 In which year was Soil Health Card launched in India to enable the farmers to apply
appropriate recommended dosages of nutrients for crop production and improving
soil health and its fertility?
Ans
X 1.2017
X2. 2019
X3. 2013
-4. 2015
Q.2H ow many members of the State Legislative Council are nominated by the Governor?

Ans $\quad \times 1$. One-third
X2. One-fourth
3. One-sixth

X4. One-fifth
Q.3Who among the following has become IAF's first woman fighter pilot from J\&K?

Ans $\times 1$. Garima Lahiri
X 2. Apurva Lahiri
X 3 . Arundhati
Ramsingh 4. Mawya
Sudan
Q.4Which is NOT a Fundamental Duty?

Ans
X 1. To protect public property
X 2. To respect National Flag and National Anthem
X 3. To preserve India's rich heritage and composite
v culture 4. To respect the elders
Q.5Which of the following states has a higher potential for solar energy?

Ans
X 1. Odisha
2. Rajasthan

X 3. Tamil
X Nadu 4
Kerala
Q.6Which of the following chemical compounds is a naturally occurring orange/yellow pigment extracted from turmeric, which is used as a spice, in food colouring and as a
traditional herbal medicine?
Ans
X 1. Carmoisine
X 2. Tartrazine
3. Curcumin

X4. Cochineal
Q. 7 Ac
h cording to Census 2011 of India, which of the following group of states have theighest female literacy rates?
Ans
X 1. Rajasthan and Bihar
2. Kerala and Mizoram

X 3. Kerala and Tamil
X Nadu 4. Sikkim and
Nagaland
Q.8Who appoints the Attorney General of India?

Ans $\times 1$. Chief Justice of Supreme
X Court 2. Prime Minister
3. President

X 4. Minister of Law and Justice

Question ID : 2643305408
Status: 6 Answered
Chosen Option :3
Q.9In which of the following dances from Assam do the movements by the dancers resemble butterflies and birds?

Ans
$X 1$. Bihu
X 2. Deodhani
X 3. Jhumar
4. Bagurumba
Q.10Who among the following has completed his term as the Chair of Governing Body of International Labour Organization in 2021?

Ans
X 1. Amitav Ghosh
2
Apurva
X Chandra
3. HPS

X Ahluwalia
4. Vikram Rana
Q. 11 In $\qquad$ BR Ambedkar negotiated the Poona Pact with Mahatma Gandhi.
Ans

1. 1932
$\times 2.1930$
$\times 3.1933$
X4. 1931
Q. $12 \ln 2$, who described the equatio
p 166n P1V1 = P2V2, where P1 and V1 are the initialressure and volume values, and P2 and V2 are the pressure and volume values of the gas after the transformation?
Ans 1. Robert Boyle
X 2. Amedeo Avogadro
X 3. Joseph Gay Lussac
X 4. John Dalton
Q.13General Election to the Legislative Assembly of which of the following States did not take place in February-March 2022?
Ans
X 1. Punjab
X 2. Manipur
X 3 Uttar
Pradesh 4.
Rajasthan
Q.14Mouma Das, who received Padma Shri Award in 2021, is a player of which of the
following sports?
Ans
2. Table

X Tennis 2.
X Cricket
X 3. Badminton
4. Golf
Q.15Which of the following was known as the forerunner of the Brahmo Samaj?

Ans $\times 1$. Prarthana Sabha
2. Atmiya Sabha

X 3. Paramhansa Sabha
X 4. Hindu Sabha

Question ID : 2643307702
Status: 9 Answered
Chosen Option :1
Q. 16 In which year was the first reliable measurement on the properties of gases made by Anglo-Irish scientist Robert Boyle?
Ans
X 1.1661
X 2. 1663
3. 16624. 1664
Q. 17 W here was Babur buried for the first time in 1530?

Ans $\quad \times 1$. Kabul
2. Agra
$X$ 3. Delhi
X 4. Fargana
Q.18Who achieved fame for the Pandanallur school of Bharatanatyam?

Ans $\quad \times 1$. Anita Ratnam
X2. Padma
$X$ Subramanyam 3.
Mallika Sarabhai
4. Meenakshi Pillai
Q.19What is a 'Gopura' in South Indian temple architecture of the medieval period?

Ans
$X 1$
A sanctum
sanctorum 2. An
X entrance gateway 3. A
X parapet wall
4. A pillar-like structure
Q. $20^{\prime}$ Courage and Commitment: An Autobiography' is written by which Indian Politician?

Ans

1. Margaret Alva

X 2. Rahul Gandhi
X 3. LK Advani
X 4. Shashi Tharoor
Q.21The Koraput Revolution occurred in $\qquad$ during the Quit India Movement.
Ans

1. Orissa
$X 2$. the United
$X$ Provinces 3. Bihar
$X 4$. Bengal
Q. 22 Whic

3 h biome is found in the northern parts of Asia, Europe and North America where00 to 900 millimetres ( 12 to 35 in ) of rain can be expected per ye Ans

X 1. Taiga forests
X 2. Temperate deciduous
forests 3. Coniferous forest
X 4. Mediterranean forests
Q.23When was the Ayushman Bharat Digital Mission launched?

Ans

1. 27 September
$\times 2021$ 2. 2 October
$\times 2021$
X 3. 27 January 2020
2. 17 February 2021
Q.24Which of the following is the largest city of Myanmar?

Ans
X 1. Naypyidaw
X 2. Mandalay
$X$ 3. Pathein
4. Yangon

Question ID : 2643306660
Status: 7 Answered
Chosen Option :4
Q.25Which nation-wide campaign was initiated by the Government of India on Gandhi Jayanti, 2014?
Ans 1. Swachh Bharat Abhiyan
X2. Mahatma Gandhi Pravasi Suraksha
X Yojana 3. Mahatma Gandhi Bunkar Bima
X Yojana
4. Gandhi Shilp Bazar
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

