## Selection Post Phase IX 2021 Higher Secondary level

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $14 / 03 / 2022$ |
| Exam Time | 12:00 PM - 1:00 PM |
| Subject | Selection Post Higher Secondary Level |

## Section : General Intelligence

Q. 1 Seven friends $K, L, M, N, O, P$ and $Q$ are sitting in a straight line all facing the same direction. $\mathbf{N}$ is sitting at one of the corners. $\mathbf{O}$ is fourth to the right of $\mathbf{Q}$. Only three persons are sitting between $M$ and $L$. $Q$ is to the immediate left of $P$. $O$ is second to the right of K. Only four persons are sitting between $\mathbf{N}$ and M . What is L's position?
Ans

1. Immediate right of $Q$
2. Third to the right of $P$
3. Immediate left of N
4. Second to the left of $P$
Q. $2 A=B$ means ' $A$ is the father of $B$ '

A \# B means ' $A$ is the mother of $B$ '
$A @ B$ means ' $A$ is the son of $B$ '
If $\mathbf{Q}=\mathrm{K} \# \mathrm{D} @ H=R$, then how is $Q$ related to $H$ ?
Ans
X 1. Father
2. Brother-in-law
3. Maternal uncle
4. Father-in-law
Q. 3 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Charger
2. Charity
3. Chariot
4. Chance
5. Charlatan

Ans
X 1.1, 2, 5, 3, 4
2. $4,1,3,2,5$
(3.4,1,3,5,2
4.4, 1, 2, 5, 3
Q. 4 Select the correct mirror image of the given combination when the mirror is placed at line PQ as shown.

Ynw 4dg ${ }^{\mathrm{p}}$
Ans

gb+wnY

${ }^{\times 4} \mathbf{g} \boldsymbol{b} \boldsymbol{W} \boldsymbol{m} \boldsymbol{\lambda}$
Q. 5 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

16 : 64 :: 36 : ? :: 20 : 100
Ans
$\times 1.404$
$\times 2.256$
X 3.144

- 4.324
Q. 6 In a certain code language, 'VIEWER' is written as 'XGCYCT' and 'DOER' is written as 'FMCT'. How will 'FLAGSHIP' be written in that language?

Ans
X 1. HNCIUJKR
2. HNYIUJGR

X 3. RKJUICNG
X 4. HNCIPEJR
Q. 7 Select the option that is related to the third term in the same way as the second term is related to the first term.

CLAVICLE : WBMDFMDJ :: PRISTINE: ?
Ans
X 1. SJTQFPJU
X 2. TJSQFRKU
3. TJSQFOJU
4. TJSQGOJV
Q. 8 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some roses are boats.
All needles are boats.
Conclusions:
I. Some boats are needles.
II. Some boats are roses.

Ans $\quad$ 1. Only conclusion II follows.
2. Both conclusions I and II follow.

X 3. Either conclusion I or II follows.
$X 4$. Only conclusion I follows.
Q. 9 Select the option that is related to the third word in the same way as the second word is related to the first word.

Singapore : Asia :: Denmark : ?
Ans
< 1. South America
2. Europe

X 3. North America
4. Africa
Q. 10 Select the option in which the given figure is embedded (rotation is NOT allowed).

## 4

Ans


Q． 11 Select the figure from among the given options that can replace the question mark（？）in the following series．

| 品 | 叫 | 号 | $?$ |
| :--- | :--- | :--- | :--- |

Ans


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

SENATOR ：ROTANES ：：DESIGNER ：？
Ans
X 1．RENIGSED
2．RENGISED
X 3．REGNISED
X 4．RENGSIED

Q． 13 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series．
$d_{-} m c_{-} z_{-} h_{-} \mathrm{cs}_{-} \mathrm{d}_{-} \mathrm{m}_{--} \mathrm{z}$
Ans $\times 1 . \mathrm{hsdzchcs}$
2．hsdmzhcs
X 3．hsdmzhds
X4．hdsmzhcs
Q. 14 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

## Statements:

No restaurant is a shop.
All shops are schools.
All parks are shops.
Conclusions:
I. Some schools are parks.
II. Some parks are restaurants.
III. Some shops are parks.

Ans
X 1. Conclusions I, II and III follow.
X 2. Both conclusions II and III follow.
X 3. Both conclusions I and II follow.
4. Both conclusions I and III follow.
Q. 15 Three different positions of the same dice are shown, the six faces of which are indicated by $1,2,3,4,5$ and 6 . Select the number that will be on the face opposite to the one showing ' 5 '.


Ans
$\times 1.2$
$\times 2.1$
$\times 3.4$
-4. 6
Q. 16 उस विकल्प का चयन करें जो तीसरे शब्द से उसी प्रकार संबंधित है जैसे दूसरा शब्द पहले शब्द से संबंधित है।

पालक (Spinach) : पत्तेदार (Leafy) : : शलगम (Turnip) : ?
Ans
X1. शल्क कंद (Bulb)
2. मूल (Root)
3. कंद (Tuber)
4. प्रकंद (Rhizome)
Q. 17 Pointing towards the photograph of Ragini, Shilpa said, "she is my only brother's son's wife's mother-in-law". How is Ragini related to Shilpa?
Ans

1. Brother's wife
2. Daughter
3. Mother
4. Brother's daughter
Q. 18 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$\mathrm{C}_{-} \mathrm{RW} \mathbf{N}_{-} \mathrm{TR} \mathrm{R}_{-} \mathrm{NCT} \mathrm{T}_{--} \mathrm{N}$
Ans
X1.TNCRCW
X2.TCNWRW
3.TNCWRW

X4.TNCWRT
Q. 19 In a certain code language, 'PERMIT' is coded as ' 1651813920 '. How will 'CLOSED' be coded in that language?
Ans

1. 312151954

X 2. 313151854
< 3. 242151954
X 4.312141964
Q.20 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.
Ans
X 1. SUWY
2. KMOP

- 3. NPRT

4. DFHJ
Q. 21 Neha, Rati, Vishva, Charu and Sejal are sitting in a straight line, all facing the north.

Charu is third to the left of Sejal. Neha is second to the right of Rati. Vishwa is second to the left of Sejal. Who is sitting to the immediate right of Sejal?
Ans
$\times 1$. Charu
X 2. Rati
X 3. Vishva
4. Neha
Q. 22 Select the number from among the given options that can replace the question mark (?) in the following series.
$24,25,75,80,560, ?$
Ans
$\times 1.575$
$\times 2.840$
จ 3.569
$\times 4.1120$
Q. 23 Which two numbers should be interchanged to make the given equation correct?
$68+85-15 \div 5 \times 3=32$
Ans
1.85 and 15

X2. 15 and 3
$\times 3.85$ and 3
X 4.68 and 15
Q. 24 Select the number from among the given options that can replace the question mark (?) in the following series.

9, 21, 46, 97, 200, ?
Ans
$\times 1.399$
$\times 2.345$
$\times 3.419$

- 4.407
Q. 25 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Syrup
2. Syndrome
3. System
4. Syntax
5. Synthesis

Ans
X 1.2,1,5,3, 4
2. $2,5,4,1,3$
3. $2,4,5,1,3$
4. $2,4,5,3,1$
Q. 1 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. My husband would not be back until late and I decided to settle down in a comfortable chair and read a book.
B. I put the children to bed early and prepared some coffee.
C. It had been a tiring day and I was looking forward to a quiet evening.
D. Soon I was sitting comfortably with a cup of coffee and the book.

Ans
X 1. CBDA
X 2. BADC
2. CABD
$\times 4$. DCAB
Q. 2 Select the most appropriate synonym of the given word.

Devoid
Ans
X 1. Entire
$X$ 2. Filled
3. Lacking

X 4. Complete

## Q. 3 Select the option that expresses the given sentence in direct speech.

He clarified that he wasn't the one to send the controversial news to the newspaper.
Ans

1. He said, "I am not the one to send the controversial news to the newspaper."

X 2. He said, "He hadn't been the one to send the controversial news to the newspaper."
X 3. He said, "I wasn't the one to send the controversial news to the newspaper."
X 4. He said, "He wasn't the one to send the controversial news to the newspaper."
Q. 4 Select the option that expresses the given sentence in reported speech.

Rajesh said to Vandana, "You must buy a beautiful dress for your birthday."
Ans
X 1. Rajesh told Vandana that she might buy a beautiful dress for my birthday.
2. Rajesh told Vandana that she must buy a beautiful dress for her birthday.

X 3. Rajesh told Vandana that he would buy a beautiful dress for her birthday.
X 4. Rajesh told Vandana that you must buy a beautiful dress for your birthday.
Q. 5 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'.

Anurag said that he is being fined by a policeman for not wearing a mask last evening.
Ans
X 1. was fining
2. had been fined

Х 3. No substitution required
$\times 4$. has been fining
Q. 6 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

She wanted telling her grandfather / her marks but / he had gone for a walk.
Ans
$X 1$. he had gone for a walk
2. She wanted telling her grandfather

X 3. her marks but
4. No error
Q. 7 Select the most appropriate meaning of the given idiom.

Go to the dogs
Ans
$\times 1$. Defend someone
2. Be ruined or destroyed

X 3. Fail miserably
X 4. Be loyal to someone
Q. 8 Select the most appropriate meaning of the given idiom.

Shed light on
Ans
$\times 1$. To light a fire
X 2. To disconnect electricity
3. To explain a situation

- 4. To reduce weight
Q. 9 Select the most appropriate option to fill in the blank.

The work cannot be completed on time $\qquad$ you work for longer hours.
Ans
$X 1$. even
$X$ 2. because
X 3. since
4. unless
Q. 10 Select the most appropriate ANTONYM of the given word.

Establish
Ans
X 1. Create
X 2 . Endow
X 3. Provide
4. Displace
Q. 11 Select the option that can be used as a one-word substitute for the given group of words.

A group of birds
Ans

1. Flock

X 2. Herd
3. Pride
4. Pack
Q. 12 Select the option that can be used as a one-word substitute for the given group of words.

One who does one's work thoroughly and seriously
Ans
$X$ 1. Curious
2. Conscientious
3. Conscious
4. Enthusiastic
Q. 13 Select the INCORRECTLY spelt word.

Ans
X 1. Suspicious
2. Swindel

X 3. Supplement
4. Sweater
Q. 14 Select the option that expresses the given sentence in active voice.

The ancient banyan tree is worshipped by the villagers.
Ans
$X 1$. The villagers worshipped the ancient banyan tree
X 2. The villagers are worshipping the ancient banyan tree.
3. The villagers worship the ancient banyan tree.
4. The villagers have worshipped the ancient banyan tree.
Q. 15 Select the option that expresses the given sentence in passive voice.

These girls speak English fluently.
Ans

1. English is spoken fluently by these girls.
2. English was spoken fluently by these girls.

X 3. English has been spoken fluently by these girls.
4. English is being spoken fluently by these girls.

## Comprehension:

Read the given passage and answer the questions that follow.

Mani was beginning to look worried by the thought of the examinations and dogged the steps of the school clerk. There was a general belief in the school that the clerk knew all the question papers of all the classes. One day Mani went to the clerk's house and laid a neat bundle containing fresh brinjals at his feet. The clerk was pleased and took Mani in and seated him on a stool.
The clerk looked extremely amiable and Mani felt that he could ask anything at that moment and get it. The clerk was murmuring something about his cat, a lank ill fed thing, that was nestling close to him.
Most of what he was saying did not enter Mani's head. He was waiting to open the topic of question papers. The clerk had meanwhile passed from cats to eye-flies; but it made little difference to Mani, who was waiting for the other to pause for breath to launch his attack. 'You must never let these eye-flies buzz near your eyes. All cases of eyesore can be traced to it. When you get eyesore, the only thing you can do is to take a slice of raw onion...' continued the clerk.
Mani realised that the other would not stop and butted in, 'There is only a week more for the examinations sir......'
The clerk was slightly puzzled: 'Yes. Indeed, a week more ...... Mani tried to look pathetic. 'You see, sir, I am so worried, I don't sleep at nights, thinking of the examination ......' If you could possibly tell me something important..... I have such a lot to study. I don't want to study unnecessary things that may not be necessary for the examination. The clerk understood what he was driving at, but advised, 'Just read all your portions and you will pass.' Mani asked bluntly, 'Please tell me, sir, what questions are we getting for our examination?'
The clerk denied having any knowledge of the question papers. Mani flattered him by asking, if he did not know the questions, who else would. By just a little more flattery the clerk was moved to give what Mani believed to be valuable hints. In spite of the fact that he did not know what the first form texts were, the clerk ventured to advise 'you must pay particular attention to Geography. May be you will have to practice map-drawing a lot. And in Arithmetic make it a point to solve at least five problems every day and you will be able to tackle Arithmetic easily.'
'And what about English?' asked Mani. ‘Oh, don't worry about that. You must read all the important lessons again and if you have time, yet again and that will be ample.' These answers satisfied Mani greatly. On his way home, he smiled to himself and said that the four annas he had invested on brinjals was not after all a waste.

SubQuestion No: 16
Q. 16 Which of the following was NOT an advice given by the clerk?

Ans

1. Read all important lessons in English only once

X 2. Practice map drawing for geography
X 3. Read all your portions and you will pass
$\times 4$. Solve five arithmetic problems daily

## Comprehension:

Read the given passage and answer the questions that follow.

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SubQuestion No: 17
Q. 17 What is the underlying irony in the passage?

Ans
$X 1$. The clerk talked of his cat and eye-flies.
X 2. Mani bribed the clerk with a bundle of fresh brinjals.
3 3. The clerk felt he was very knowledgeable.
4. Mani believed he had got valuablehints about the question papers.

## Comprehension:

Read the given passage and answer the questions that follow.

Mani was beginning to look worried by the thought of the examinations and dogged the steps of the school clerk. There was a general belief in the school that the clerk knew all the question papers of all the classes. One day Mani went to the clerk's house and laid a neat bundle containing fresh brinjals at his feet. The clerk was pleased and took Mani in and seated him on a stool.
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SubQuestion No : 18
Q. 18 Why did Mani follow the school clerk?

Ans $\times 1$. The clerk was a friendly fellow.
Х 2. The clerk could help Mani with his studies.
X 3. Mani wanted to play with the clerk's cat,

- 4. Mani thought that the clerk knew about the question papers.


## Comprehension:

Read the given passage and answer the questions that follow.

Mani was beginning to look worried by the thought of the examinations and dogged the steps of the school clerk. There was a general belief in the school that the clerk knew all the question papers of all the classes. One day Mani went to the clerk's house and laid a neat bundle containing fresh brinjals at his feet. The clerk was pleased and took Mani in and seated him on a stool.
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SubQuestion No : 19
Q. 19 According to the clerk, what was the remedy for the eyesore?

Ans
X 1. eye-flies
$\times 2$ brinjals
$\times$ 3. sleep
4. raw onion

## Comprehension:

Read the given passage and answer the questions that follow.

Mani was beginning to look worried by the thought of the examinations and dogged the steps of the school clerk. There was a general belief in the school that the clerk knew all the question papers of all the classes. One day Mani went to the clerk's house and laid a neat bundle containing fresh brinjals at his feet. The clerk was pleased and took Mani in and seated him on a stool.
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SubQuestion No: 20
Q. 20 Select the most appropriate synonym of the given word.

## Pathetic

Ans

1. Innocent

X 2. Ignorant
X 3. Puzzled
4. Miserable

## 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.

She was flying over the hills and felt delighted at the (1) $\qquad$ of the tall trees and their (2) $\overline{\text { Birds (4) }}$ $\qquad$ s below her. She could (3) $\qquad$ see a river flo flowing in a zig-zag fashion.

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

Ans
X1. vision
$X$ 2. show
3. sight

X 4. spot

## 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.

She was flying over the hills and felt delighted at the (1) $\qquad$ of the tall trees and their (2)

Birds (4) branches below her. She could (3) $\qquad$ see a river
$\qquad$ her to

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

Ans

1. sloping

X 2. slipping
$X$ 3. sliding
X 4. sinking

## 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.

She was flying over the hills and felt delighted at the (1) $\qquad$ of the tall trees and their (2) branches below her. She could (3) $\qquad$ see a river
$\qquad$ her to the skies.
$\overline{\text { Birds (4) }}$ $\qquad$ alongside making chirruping sounds as if (5)

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

Ans
$X 1$. much
X 2. clear
$X$ 3. either

- 4. even


## 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.

She was flying over the hills and felt delighted at the (1) $\qquad$ of the tall trees and their (2)
$\overline{\text { Birds (4) }}$ branches below her. She could (3) $\qquad$ see a river
$\qquad$ her to thag fashion.

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

Ans
X 1. fly
X 2. flown
3. flew
$\times 4$. flowed

## 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.

She was flying over the hills and felt delighted at the (1) $\qquad$ of the tall trees and their (2) Birds (4) branches below her. She could (3) $\qquad$ see a river
$\qquad$ her to zag fashion

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

Ans
$\times 1$. greeting
2. welcoming
$\times$ 3. pleasing
X4. warming

## Section : Quantitative Aptitude

Q. 1 In equilateral $\triangle A B C, E$ is a point on side $A C$ such that $A E=A D$, where $D$ is the mid-point of $B C$. What is the measure of $\angle E D C$ ?
Ans
$\times 1.10^{\circ}$
$\times 2.20^{\circ}$
$\times 3.30^{\circ}$
4. $15^{\circ}$
Q. 2 A sum of $₹ 36,000$ is lent partly at $9 \%$ and the remaining at $7 \%$ per annum. If the yearly interest on the average is $8.5 \%$, then the sum (in ₹) which is lent at $9 \%$ is:

Ans
-1. 27,000
X2. 24,500
$\times$ 3. 33,500
X4. 30,500
Q. 3 The savings of Surbhi is $16 \%$ of her expenditure. If her income increases by $35 \%$ and the expenditure increases by $38 \%$, then by what percentage do her savings increase/decrease?

Ans
$X 1$. Decrease by $12.25 \%$
$x$ 2. Increase by $22.5 \%$
X 3. Decrease by $13.9 \%$
4. Increase by $16.25 \%$
Q. 4 If the 9 -digit number $45069 x 4 y 8$ is divisible by 44 , then what is the value of $(x-2 y)$ for the minimum value of $y$ ?

Ans

1. 3
$\times 2.0$
$\times 3.4$
$\times 4.1$
Q. 5 On selling an article for ₹ 246.80 , the gain is $20 \%$ more than the amount of loss incurred on selling it for ₹ 216 . If the article is sold for $₹ 320.75$, then what is the percentage (correct to one decimal place) profit/loss?
Ans
X 1. Loss of $35.9 \%$
2. Profit of $39.5 \%$
3. Profit of $27.8 \%$

X 4. Loss of $28.7 \%$
Q. 6 A tyre has 3 punctures. The first puncture alone would have made the tyre flat in 14 minutes, the second alone would have done it in 28 minutes, the third alone would have done it in 56 minutes. If air leaks out at a constant rate, how long (in minutes) does it take for all the punctures together to make the tyre flat?
Ans
$\times 1.7$
$\times 2.6$
$\times 3.5$
4. 8
Q. 7 If $x^{2}-\sqrt{13} x+1=0$, then $\left(x^{3}+x^{-3}\right)$ is equal to:

Ans
-1. $10 \sqrt{13}$
X2. $7 \sqrt{13}$
X 3. $4 \sqrt{13}$
X4. $8 \sqrt{13}$
Q. 8 The average weight of $P, Q$ and $R$ is 57 kg . If the average weight of $Q$ and $R$ is 60 kg and that of $R$ and $P$ is 59 kg , then the weight (in kg ) of $R$ is:
Ans
$\times 1.57$
$\times 2.43$
$\checkmark$ 3. 67
X4. 47
Q. 9 If $\frac{1}{1+\tan \theta}+\frac{1}{1-\tan \theta}=4,0^{\circ}<\theta<90^{\circ}$, then what is the value of $\operatorname{cosec} \theta+\sec \theta+\sin \theta$ ?

Ans

1. $\frac{3+4 \sqrt{2}}{\sqrt{6}}$

X2. $\frac{8 \sqrt{3}}{3}$
X 3. $\frac{3 \sqrt{3}}{2}$
X4. $\frac{4+3 \sqrt{2}}{\sqrt{6}}$
Q. 10 What will be cost of polishing the curved surface area of a solid cylinder at rate of $₹ 28$ per sq.m, if it has diameter of 70 cm and height of 7 m ? (Use $\pi=\frac{22}{7}$ )
Ans

1. ₹ 431.20

X 2. ₹ 477.20
X 3. ₹ 255.37
X4. ₹ 425.80
Q. 11 The average runs scored by sumit in the first 3 matches is 122 . In the $4^{\text {th }}$ match, he scored some runs such that his average runs now become 130. In the $5^{\text {th }}$ match, he scored 14 less runs than those in the $4^{\text {th }}$ match, and now the average of his last 4 matches becomes 164 . The runs scored by Sumit in the $1^{\text {st }}$ match is:
Ans
$\times 1.9$
$\times 2.3$
$\times 3.5$
4. 4
Q. 12 The given bar graph shows the income and expenditure (in ₹ crores) of a company during 5 years (2014 to 2018).


In which year is the ratio of the income to expenditure the lowest and highest, respectively?
Ans
X 1. 2016, 2015
X2. 2015, 2017
X 3. 2014, 2017
-4. 2018, 2014
Q. 13 The given pie chart shows the degree-wise break-up of the expenditure of a family in a month. The total expenditure of the family is $₹ 43,200$.

Degree-wise break-up of the expenditure of a family in a month


By what percentage is the expenditure on education and rent taken together more than the expenditure on food (correct to two decimal places)?
Ans
X1. $23.18 \%$
X2. 21.83\%
X 3. $28.31 \%$

- 4. $23.81 \%$
Q. 14 In $\triangle A B C, D$ and $E$ are the points on sides $A B$ and $B C$, respectively, such that $D E \| A C$. If $B D=3 \mathrm{~cm}$ and $A D=4 \mathrm{~cm}$,
then $\frac{\text { Area of } \triangle \text { BDE }}{\text { Area of quadriateral } A D E C}=\frac{\mathrm{p}}{\mathrm{q}}$, where $\mathrm{p}, \mathrm{q}$ are coprime. What is the value of $|\mathrm{p}-\mathrm{q}|$ ?
Ans
$\times 1.37$

2. 31
$\times 3.40$
$\times 4.33$
Q. 15 Seven years ago, the ratio of the ages of A and B was $2: 7$. The ratio of their present ages is $3: 8$. What will be the ratio of the ages of $A$ and $B$, four years from now?
Ans
$\times 1.2: 5$
$\times 2.1: 3$
X 3. 4:11

- 4. $5: 12$
Q. 16 When an article is sold for ₹948, there is a loss of $21 \%$. To gain $23 \%$, it should be sold at (in ₹):

Ans
$\times 1.1,746$
$\times 2.1,764$
$\times$ 3. 1,674
4. 1,476
Q. 17 A person travels equal distances at speeds of $2 \mathrm{~km} / \mathrm{h}, 4 \mathrm{~km} / \mathrm{h}, 5 \mathrm{~km} / \mathrm{h}, 7 \mathrm{~km} / \mathrm{h}$ and $12 \mathrm{~km} / \mathrm{h}$, and takes a total of 1485 minutes. What is the total distance (in km ) travelled (to the nearest integer)?
Ans
$\times 1.175$
X2. 200
3. 105
$\times 4.125$
Q. 18 P and Q travel a distance of 120 km such that the speed of P is faster than Q . The sum of their speeds is $75 \mathrm{~km} / \mathrm{h}$ and together they took the total time of 6 hours and 40 minutes. Then the speed of Q (in $\mathrm{km} / \mathrm{h})$ is
Ans
X1. 40
$\times 2.42$
3. 30
4. 25
Q. 19 Study the given graph and answer the following questions.


What is the ratio of the total production of wheat in 2015 and 2017 to the total production of rice and barley in 2016 ?
Ans
X1.5:4
$\times 2.4: 3$
$\times 3.3: 2$

- $4.6: 5$
Q. 20 The ratio of acid and water in solutions $A$ and $B$ is $15: 11$ and $4: 9$, respectively. 6 litres of $A$ is mixed with 4 litres of $B$.

How much acid (in ml) should be added to 390 ml of the resulting solution so that the ratio of acid and water in it
becomes $3: 2$ ?
Ans
X1. 126.5
$\times 1.130$
$\times 2$.
X 3. 128
-4. 127.5
Q. 21 The income of A is $25 \%$ more than that of B , and B 's income is $20 \%$ more than that of C . D's income is $60 \%$ of the combined income of $B$ and $C$. Which of the following is true?
Ans

1. The income of C is $32 \%$ less than that of D .
2. The income of D is $12 \%$ less than that of A .
$x^{3}$. The income of $B$ is $12 \%$ less than that of $D$.
$X$ 4. The income of C is $50 \%$ less than that of A .
Q. 22 A shopkeeper gains $20 \%$ when he sells an article at a $20 \%$ discount on its marked price. If the cost price of the article is reduced by $20 \%$ and he wants to earn a profit of $26 \%$, then how much per cent discount should he give on the same marked price of the article?
Ans
$\times 1.30 .2 \%$
3. $32.8 \%$

X 3. $35.2 \%$
X4. $30.6 \%$
Q. 23 Simplify the given expression:
$\left(\frac{(a+x)\left(a x^{2}-x^{3}\right)}{a^{3}+x^{3}} \times \frac{a^{2}-a x+x^{2}}{a^{2} x^{2}+x^{4}}\right) \div \frac{\left(a^{2}-2 a x+x^{2}\right)(a-x)}{\left(a^{4}-x^{4}\right)}, a \neq x$
Ans

1. $\frac{a+x}{a-x}$

X2. $a^{2}-x^{2}$
X 3. $\frac{a-x}{a+x}$
X4. $a^{4}-x^{4}$
Q. 24 If a seven digit number $53345 x y$ is divisible by 40 , for some possible value of $x$ and $y$, then the one value of $(2 x-5 y)$ is:
Ans
-1. 12
$\times 2.9$
$\times 3.10$
$\times 4.8$
Q. 25 A and B can do a certain work in 27 days and 36 days, respectively. A worked for a few days and then B joined him. They together worked till the completion of the work. If the work got completed in a total of 18 days, then for how many days did $A$ and $B$ work together?
Ans
$\times 1.10$
$\times 2.15$
$\times 3.18$

- 4.12

[^0]Q. 1 Which of the following Articles of the Constitution of India deals with the organisation of village panchayats?
Ans
X 1. Article 39
X 2. Article 38
$\times 3$. Article 37
4. Article 40
Q. 2 In which of the following states is the Mamallapuram Dance Festival organised?

Ans $\times 1$. Andhra Pradesh
X 2. Telangana
X 3. Karnataka
4. Tamil Nadu
Q. $3 \ldots$ is used in buildings and in manufacturing processes to prevent heat loss or heat gain.
Ans
$X 1$. Convection
$X 2$. Conduction
X 3. Freezing
4. Insulation
Q. 4 Which of the following is the highest mountain of Bhutan?

Ans
X 1. Gyemo Chen
X 2. Kangphu Kang I
X 3. Chomolhari
4. Gangkhar Puensum
Q. 5 The natural aging of a lake by nutrient enrichment of its water is called $\qquad$ .
Ans 1. eutrophication
2. planktonic
3. eutrophicinia
4. biomagnification
Q. 6 Which of the following is an initiative aimed at preventing hazardous manual cleaning of sewers and septic tanks, and promote their mechanised cleaning?
Ans
X 1. Safaimitra Suraksha Trial-2021
X 2. Safaimitra Suraksha Task-2021
X 3. Safaimitra Suraksha Contest-2021
4. Safaimitra Suraksha Challenge-2021
Q. 7 As per the India Census figure 2011, which of the following states has the secondhighest percentage contribution to the total growth of the population of India between 2001 to 2011?
Ans
X 1. Rajasthan
2. Bihar

X 3. Maharashtra
4. Uttar Pradesh
Q. 8 Which of the following Articles of the Constitution of India deals with Uniform Civil Code for citizens?
Ans
X 1. Article 47
X 2. Article 45
3. Article 44
4. Article 46
Q. 9 The Constitution (One Hundredth Amendment)Act, 2015 is related to $\qquad$ -
Ans $\quad$ 1. Mutual transfer of certain territories between India and Sikkim
X 2. Mutual transfer of certain territories between India and China
3. Mutual transfer of certain territories between India and Bangladesh
4. Mutual transfer of certain territories between India and Nepal
Q. 10 Which of the following awards did Indian politician Ghulam Nabi Azad receive in January 2022?

Ans
X 1. Padma Shri
2. Padma Bhushan
3. Padma Vibhushan
4. Bharat Ratna
Q. 11 Who among the following scholar translated Patanjali's work on grammar into Arabic?

Ans
X 1. Ibn Hajar al-Haytami
2. Al-Biruni

X 3. Ibn al-Haj
X 4. Ibn Hubal
Q. 12 The Palar River Basin is one of the major river basins in:

Ans $\quad$ 1. Maharashtra
2. Tamil Nadu

X 3. Odisha
4. Ladakh
Q. 13 Which of the following is one of the animal motifs found on the cylindrical seal of the Indus region?
Ans

1. Humped bull

X 2. Humped camel
3. Sitting tiger
4. Running dog
Q. 14 $\qquad$ , अरण्यभूमि की देखभाल और कृषिकरण है।
Ans $\times 1$. रेशम कीटपालन (Sericulture)
2. वन-संवर्धन (Silviculture)。

X 3. अंगूरोत्पादन (Viticulture)
X 4. पुष्प कृषि (Floriculture)
Q. 15 Kathak exponent and Padma Vibhushan awardee Pt Birju Maharaj was the torchbearer of which gharana of the Lucknow style of Kathak?

Ans
X 1. Raigarh
2. Jaipur

X 3. Banaras
4. Kalka-Bindadin
Q. 16 In January 2022, who was appointed as the Chief Economic Advisor (CEA) of the Government of India?
Ans
X 1. Rajiv Kumar
2. Venkatraman Anantha Nageswaran

X Arvind Subramanian
X 4. Krishnamurthy Subramanian
Q. 17 Which of the following terms, also known as hypersensitivity, is used to describe a condition in which the human body has an exaggerated response to a substance (e.g. food or drug)?
Ans
X 1. Infection
2. Allergy

X 3. Mutation
4. Convulsion
Q. 18 Elephantiasis, also known as lymphatic filariasis, is caused by $\qquad$ -.

Ans

1. parasitic worms
2. bacteria
3. protozoa
4. viruses
Q. 19 The Ashoka Chakra Class-II was renamed as $\qquad$ in 1967.
Ans $\quad$ 1. Ashoka Chakra
5. Kirti Chakra
6. Shaurya Chakra
7. Vir Chakra
Q. 20 Which of the following Nobel Laureates has written 'Cooking to Save Your Life' which is a book on cooking?
Ans
$X$ 1. Amartya Sen
X 2. Maria Ressa
8. Abhijit Banerjee
9. Benjamin List
Q. 21 Where is the 'Ahom Raja's Palace' located?

Ans
X 1. Uttar Pradesh
X 2. Ladakh
X 3. Telangana
4. Assam
Q. 22 'KAPILA', a programme launched on 15th October 2020 in the name of the former President of India Late Dr. APJ Abdul Kalam is associated with which of the following?
Ans
X 1. Space Science
X 2. Missiles Technology
3. Intellectual Property Literacy and Awareness
4. Aeronautical Engineering
Q. 23 In which of the following years did the peasant movement in Bardoli take place?

Ans $\times 1.1939$
X 2.1912

- 3.1928

X 4.1943
Q. 24 In January 2022, which Indian player was named as The World Games Athlete of the Year for 2021?
Ans
X 1. Rani Rampal
2. P R Sreejesh

X 3. Neeraj Chopra
4. PV Sindhu
Q. 25 From which country did Amazon Prime Video start its first mobile-only plan in the world?
Ans

1. India

X 2. The UK
X 3. The US
4. China


[^0]:    Section: General awareness

