Phase X/2022/Selection Posts and Selection Posts/Ladakh/2022

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $03 / 08 / 2022$ |
| Exam Time | $5: 15$ PM $-6: 15$ PM |
| Subject | Selection Post Phase $X$ Higher Secondary Level |

## Section : General Intelligence

Q. 1 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 2 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
GARLIC : IZTNHE :: ONIONS : NPHNPU :: CARROT : ?
Ans

1. EZTTTNV
< 2. BBQQPU
2. EATTNV
3. EZTTPV
Q. 3 The following figures show the sequence of folding a piece of paper. The last figure shows the manner in which the folded paper has been cut. Choose a figure which would most closely resemble the unfolded form of the paper.


Ans

Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as
adding/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.)
$(31,4,47)$
$(17,8,81)$
Ans
X 1. $(23,7,30)$

- 2. $(19,5,44)$

X 3. $(19,11,41)$
X 4. $(2,12,16)$
Q. 5 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
BELL : IOBE :: STOP : MRQV :: ARCS : ?
Ans
X 1. PFNC
2. PFOD
3. QGNC
4. QGOD
Q. 6 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Lung
2. Kidney
3. Tongue
4. Eyes
5. Nose

Ans 1. $2,1,3,5,4$
2. $3,1,2,4,5$
3. $2,3,5,1,4$
4. $2,5,4,3,1$
Q. 7 Which of the following numbers will replace the question mark (?) in the given series? 213, 199, 235, 221, 257, 243, ?
Ans
$\times 1.265$
2. 279
3. 271
4. 281
Q. 8 In this question, 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 conclusion(s) logically follow(s) from the statements.
Statements:
Some mugs are jars.
All jars are bottles.
All glasses are mugs.
Conclusions:
I. All glasses are jars.
II. Some glasses are bottles.
III. Some mugs are bottles.

Ans $\times 1$. Only conclusion I follows
X 2. Only conclusions II and III follow.
3. Only conclusion III follows.
4. Only conclusions I and III follow.
Q. 9 Which of the following letter-clusters will replace the question mark (?) in the given series?
JV, MU, OT, RS, TR, ?
Ans

1. $W Q$
2. WR
3. YQ
4. XQ
Q. 10 Two dimensions of the same dice are given. What letter will be on the face opposite to the face having the letter E ?


Ans 1. D
$\times 2$. c
X3.F
4. A
Q. 11 In a code language, 'ROSE' is coded as 228 and 'TULIP' is coded as 390 . How will 'DAHLIA' be coded in the same language?
Ans

1. 210
$\times 2.320$
X 3.140
2. 105
Q. 12 Which of the following letter-clusters will replace the question mark (?) in the given series?
GEA, IFB, LHA, QKB, XOA, ?
Ans
$\times 1$. HUB
3. ITB

X 3. ISB
4. HTB
Q. 13 In a code language, 'CAKE' is coded as 64 , and 'WAFER' is coded as 125 . How will 'BISCUIT' be coded in the same language?
Ans
X 1.255
2. 343
3. 210
4. 392
Q. 14 In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follow(s) from the statements.
Statements:
All cakes are pastries.
Some pastries are chocolates.
All chocolates are biscuits.
Conclusions:
I. Some biscuits are pastries.
II. All cakes are chocolates.

Ans

1. Both conclusions I and II follow.
2. Only conclusion I follows.
3. Neither conclusion I nor II follows.
4. Only conclusion II follows.
Q. 15 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
MOBILE : CPNFMJ :: PHONES : PIQTFO :: CHARGE :?
Ans
X 1. BIDFSH
5. BIDFHS
6. BIFDHS
7. BIEFHS
Q. 16 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
17 * 4 * 6 * 2 * $4=9$
Ans
$\times 1 . \times \div+$
8. $-+\div \times$
9. $+-\div \times$
10. $-x+\div$
Q. 17 In a code language, 'FINGER' is coded as GJOFDQ and 'KIDNEY' is coded as LJEMDX. How will 'MUSCLE' be coded in the same language?
Ans
× 1. NVRBLD
11. NVTBKD

X 3. NUTCKD
4. MURBKD
Q. 18 In a certain code language, 'FINAL' is written as 'GHPNY' and 'VISIT' is written as 'GXUVG'. How will 'GROUP' be written in that language?

Ans
X 1. PIRMS
2. PISMR
3. PIQRS

X4.IEMWS
Q. $19 I$ is the father of $L . L$ and $K$ are the children of $M . L$ is the husband of $N . O$ is the husband of K. P is the son of O. How is I related to P?

Ans

1. Father
2. Mother's father
3. Father's father
4. Brother
Q. 20 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
HOUSE : GRPUF :: LOTUS : KROWT :: LEMON : ?
Ans
X 1. KIHQO
5. KHHQO
6. LIHQO
7. LHHQO
Q. 21 In a certain code language, 'TEA' is coded as 78, and 'SHAKE' is coded as 220. How will 'COFFEE' be coded in that language?
Ans
8. 240
9. 160
10. 340
11. 200
Q. 22 ' $P$ @ $Q$ ' means ' $P$ is the husband of $Q$ '
' $P$ \& $Q$ ' means ' $P$ is the wife of $Q$ '
' $P$ \% $Q$ ' means ' $P$ is the mother of $Q$ '
' $P \# Q$ ' means ' $P$ is the father of $Q$ '
If ' $R$ @ $S$ \% $\boldsymbol{T}$ \& $U V$ ', then how is $R$ related to $U$ ?
Ans
12. Father-in-law
13. Brother
14. Father
15. Father's father
Q. 23 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose a figure which would most closely resemble the unfolded form of the paper.


Ans


- 3. 


$\times 4$

Q. 24 In a code language, 'COUCH' is coded as FLXZK and 'TABLE' is coded as WXEIH. How will 'CHAIR' be coded in the same language?
Ans
X 1. FEDEU

- 2. FEDFU

X 3. EFDEU
X4.EFDFV
Q. 25 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Imperceptible
2. Imperialism
3. Impersonal
4. Imperative
5. Imperfect

Ans
X 1. 2, 4, 5, 1, 3
2. $4,1,5,2,3$
3.1,2, 3, 4, 5
4. 3, 5, 1, 4, 2

Section : English Language
Q. 1 Select the most appropriate option that can substitute the underlined segment in the given sentence.

I asked two people the way to Diana's house but no one of them knew it.
Ans
X 1. that no one of them knew it
2. but neither of them knew it
$\times$ 3. if none of them knew it
4. whether either of them knew it
Q. 2 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. He had a tiny room in a basement, the one window of which looked out on to the street.
B. There was hardly a pair of boots in the neighbourhood that had not been once or twice through his hands.
C. In a certain town there lived a cobbler, Martin Avdeitch by name.
D. Through it one could see the feet of those who passed by, but Martin recognised the people by their boots.
Ans
< 1. CBDA
2. CADB

X 3. CDBA
4. CABD
Q. 3 Select the most appropriate meaning of the underlined word in a sentence.

He appealed to the laws of the land to vindicate from his assailants.
Ans

1. prove
2. assess
3. banish
4. exonerate
Q. 4 Select the most appropriate option to substitute the underlined segment in the given sentence.

The magazine teaches parents how to behaves towards children.
Ans
$X$ 1. how should behave towards their
2. how to behave towards

X 3. how will behave towards
4. how to behaving their
Q. 5 Select the option that expresses the given sentence in indirect speech.

Sunny's parents said to her, "Do not take anything from strangers."
Ans

1. Sunny's parents advised her not to take anything from strangers.
2. Sunny's parents asked her do not take anything from strangers.
3. Sunny's parents said to her that do not take anything from strangers.
4. Sunny's parents told to her not to take anything from strangers.
Q. 6 Select the option that expresses the given sentence in indirect speech.

Raman said, "Let us enjoy some snacks."
Ans
X 1. Raman said that they will enjoy some snacks.
2. Raman suggested that let they be enjoyed some snacks.
3. Raman proposed that they should enjoy some snacks.
4. Raman said that let us enjoy some snacks.
Question ID : $\mathbf{2 6 4 3 3 0 7 5 4 4 9}$
Status: Answered
Chosen Option : $\mathbf{2}$
Q. 7 Select the most appropriate ANTONYM of the given word.

Frail
Ans

1. Horrible
2. Brittle
3. Stout
4. Precarious
Q. 8 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

I'll try to phone you in the meeting.
Ans
X 1. No substitution required
2. at the meeting
3. during the meeting
4. in meeting
Q. 9 Select the INCORRECTLY spelt word.

Ans
X 1. Library
2. Capasity

X 3. Imagination
4. Advocate
Q. 10 Select the most appropriate meaning of the underlined idiom in the given sentence.

In his speech on dowry, he set forth his views at length.
Ans
$X 1$. hid
2. ran
3. explained
4. started
Q. 11 Select the correct superlative degree of comparison for the given sentence.

This is one of the beautiful places in the area.
Ans
$X 1$. This is one of the beautiful places in the area.
2. This is one of the most beautiful places in the area.
$\times 3$. This is a beautiful place in the area.
$\times 4$. This is one of the more beautiful places in the area.
Q. 12 Select the most appropriate meaning of the underlined idiom.

His grandfather always laughs like a drain.
Ans
X 1. Laugh silently
2. Laugh fearfully
3. Laugh bitterly
4. Laugh loudly
Q. 13 Select the option that expresses the given sentence in direct speech.

She said that she had already eaten her dinner.
Ans
$X$ 1. She said, "I had already ate my dinner."
2. She said, "I have already eaten my dinner."
3. She said, "I had my dinner."
4. She said, "I am already eating my dinner."

## Q. 14 Select the option that expresses the given sentence in passive voice.

What makes you nervous before exams?
Ans

1. By what are you made nervous before exams?
2. How is nervousness caused before exams?

Х 3. Why exams are making you nervous?
4. Why do exams make you nervous?
Q. 15 Select the option that can be used as a one-word substitute for the given group of words.

One who is extravagantly romantic, chivalrous and impractical.
Ans
X 1. Teetotaler
2. Blonde
3. Quixotic
4. Virago

## 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.
Thousands of persons must (1) $\qquad$ the same thing to her since, but I happened to be the first in the line. Anyone likes to hear flattering sentiments, and more than others, I suppose, dancers. They like (2) $\qquad$ every hour of the day how well they keep their steps. I praised her art whenever I could (3) $\qquad$ alone with her and whisper in her ear, out of range of that husband of hers. Oh, what a man! I have not met a more grotesque creature in my life. Instead of calling herself Rosie, she could more logically (4) him Marco Polo. He dressed like a man about to undertake an expeditionwith his thick coloured glasses, thick jacket and a thick helmet over which was perpetually stretched a green, shiny waterproof cover, giving him the appearance of a space traveller. I have, of course, no idea of the original Marco Polo's appearance, but I wanted to call this man Marco (5) $\qquad$ , and I have not bothered to associate him with any other name since.
SubQuestion No : 16
Q. 16 Select the most appropriate option to fill in blank number 1.

Ans

1. have said
$X$ 2. saying
$X$ 3. says
2. said

## 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.
Thousands of persons must (1) $\qquad$ the same thing to her since, but I happened to be the first in the line. Anyone likes to hear flattering sentiments, and more than others, I suppose, dancers. They like (2) $\qquad$ every hour of the day how well they keep their steps. I praised her art whenever I could (3) $\qquad$ alone with her and whisper in her ear, out of range of that husband of hers. Oh, what a man! I have not met a more grotesque creature in my life. Instead of calling herself Rosie, she could more logically (4)
him Marco Polo. He dressed like a man about to undertake an expeditionwith his thick coloured glasses, thick jacket and a thick helmet over which was perpetually stretched a green, shiny waterproof cover, giving him the appearance of a space traveller. I have, of course, no idea of the original Marco Polo's appearance, but I wanted to call this man Marco (5) $\qquad$ and I have not bothered to associate him with any other name since.

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

Ans
X 1. to have told
X 2. tell
X 3. told
4. to be told

## 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.
Thousands of persons must (1) $\qquad$ the same thing to her since, but I happened to be the first in the line. Anyone likes to hear flattering sentiments, and more than others, I suppose, dancers. They like (2) $\qquad$ every hour of the day how well they keep their steps. I praised her art whenever I could (3) $\qquad$ alone with her and whisper in her
ear, out of range of that husband of hers. Oh, what a man! I have not met a more grotesque creature in my life. Instead of calling herself Rosie, she could more logically (4) him Marco Polo. He dressed like a man about to undertake an expeditionwith his thick coloured glasses, thick jacket and a thick helmet over which was perpetually stretched a green, shiny waterproof cover, giving him the appearance of a space traveller. I have, of course, no idea of the original Marco Polo's appearance, but I wanted to call this man Marco (5) $\qquad$ and I have not bothered to associate him with any other name since.

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

Ans
$\chi 1$. snatched a moment
2. snatch a moment

X 3. snatches a moment
X 4. have snatched a moment

## 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.
Thousands of persons must (1) $\qquad$ the same thing to her since, but I happened to be the first in the line. Anyone likes to hear flattering sentiments, and more than others, I suppose, dancers. They like (2) $\qquad$ every hour of the day how well they keep their steps. I praised her art whenever I could (3) $\qquad$ alone with her and whisper in her ear, out of range of that husband of hers. Oh, what a man! I have not met a more grotesque creature in my life. Instead of calling herself Rosie, she could more logically (4)
him Marco Polo. He dressed like a man about to undertake an expeditionwith his thick coloured glasses, thick jacket and a thick helmet over which was perpetually stretched a green, shiny waterproof cover, giving him the appearance of a space traveller. I have, of course, no idea of the original Marco Polo's appearance, but I wanted to call this man Marco (5) $\qquad$ and I have not bothered to associate him with any other name since.

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

Ans
$\times 1$. been called
X 2. had called
3. have called
$\times 4$. called

## 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.
Thousands of persons must (1) $\qquad$ the same thing to her since, but I happened to be the first in the line. Anyone likes to hear flattering sentiments, and more than others, I suppose, dancers. They like (2) $\qquad$ every hour of the day how well they keep their steps. I praised her art whenever I could (3) $\qquad$ alone with her and whisper in her
ear, out of range of that husband of hers. Oh, what a man! I have not met a more grotesque creature in my life. Instead of calling herself Rosie, she could more logically (4) him Marco Polo. He dressed like a man about to undertake an expeditionwith his thick coloured glasses, thick jacket and a thick helmet over which was perpetually stretched a green, shiny waterproof cover, giving him the appearance of a space traveller. I have, of course, no idea of the original Marco Polo's appearance, but I wanted to call this man Marco (5) $\qquad$ and I have not bothered to associate him with any other name since.

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

Ans
$X 1$. on first sight
X 2. in first sight
X 3. over first sight
4. at first sight

## Comprehension:

Read the given passage and answer the questions that follow.
Rao kept his important papers stacked in an almirah, which he kept locked, and the key hidden under a lining paper in another cupboard where he kept his clothes and a few odds and ends, and the key of this second cupboard also was hidden somewhere, so that no one could have access to the two cupboards, which contained virtually all the clues to his life Occasionally on an afternoon, at his hour of clarity and energy, he'd leave his easy-chair, bolt the door and open the first cupboard, take out the key under the paper lining, and then open the other cupboard containing his documents-title-deeds, diaries, papers and a will.

SubQuestion No : 21
Q. 21 How did Rao ensure the safety of his important papers?

Ans

1. By stacking them in a bank lockup
2. By stacking them in an almirah with lock and key

X 3. By putting them in the custody of his wife
X 4 . By getting them laminated

## Comprehension:

Read the given passage and answer the questions that follow.
Rao kept his important papers stacked in an almirah, which he kept locked, and the key
hidden under a lining paper in another cupboard where he kept his clothes and a few odds and ends, and the key of this second cupboard also was hidden somewhere, so that no one could have access to the two cupboards, which contained virtually all the clues to his life Occasionally on an afternoon, at his hour of clarity and energy, he'd leave his easy-chair, bolt the door and open the first cupboard, take out the key under the paper lining, and then open the other cupboard containing his documents-title-deeds, diaries, papers and a will.

SubQuestion No : 22
Q. 22 What sort of papers were considered important by Rao?

Ans

1. Bank passbooks
2. Title-deeds, diaries, papers and a will
3. Share market papers
4. Love letters

## Comprehension:

Read the given passage and answer the questions that follow.
Rao kept his important papers stacked in an almirah, which he kept locked, and the key hidden under a lining paper in another cupboard where he kept his clothes and a few odds and ends, and the key of this second cupboard also was hidden somewhere, so that no one could have access to the two cupboards, which contained virtually all the clues to his life. Occasionally on an afternoon, at his hour of clarity and energy, he'd leave his easy-chair, bolt the door and open the first cupboard, take out the key under the paper lining, and then open the other cupboard containing his documents-title-deeds, diaries, papers and a will.

SubQuestion No : 23
Q. 23 Which of the following is most nearly similar in meaning to the phrase 'Odds and ends' as used in the passage?

Ans

1. Rare items of different types
2. Lost items of different types
3. Precious items of different types
4. Various things of different types

## Comprehension:

Read the given passage and answer the questions that follow.
Rao kept his important papers stacked in an almirah, which he kept locked, and the key hidden under a lining paper in another cupboard where he kept his clothes and a few odds and ends, and the key of this second cupboard also was hidden somewhere, so that no one could have access to the two cupboards, which contained virtually all the clues to his life. Occasionally on an afternoon, at his hour of clarity and energy, he'd leave his easy-chair, bolt the door and open the first cupboard, take out the key under the paper lining, and then open the other cupboard containing his documents-title-deeds, diaries, papers and a will.

SubQuestion No : 24
Q. 24 Which of the following is most nearly similar in meaning to the word 'Access' as used in the passage?

Ans
X 1 . To be able to overpower
2. To be able to increase something
3. To be able to decrease something
4. To be able to obtain something

## Comprehension:

Read the given passage and answer the questions that follow.
Rao kept his important papers stacked in an almirah, which he kept locked, and the key hidden under a lining paper in another cupboard where he kept his clothes and a few odds and ends, and the key of this second cupboard also was hidden somewhere, so that no one could have access to the two cupboards, which contained virtually all the clues to his life.
Occasionally on an afternoon, at his hour of clarity and energy, he'd leave his easy-chair, bolt the door and open the first cupboard, take out the key under the paper lining, and then open the other cupboard containing his documents-title-deeds, diaries, papers and a will.

SubQuestion No: 25
Q. 25 Which of the following is the most appropriate word to substitute the word 'stacked' as used in the passage?
Ans
X 1. Spoiled
2. Piled

X 3. Torn
4. Removed

Section : Quantitative Aptitude
Q. 1 A retailer marks up the price of his goods by $30 \%$. He sells $50 \%$ of his goods at a discount of $8 \%$ and the remaining at a discount of $\mathbf{6 \%}$. Find his profit percentage.
Ans
X 1.19.4\%
2. $20.9 \%$

X 3.17.6\%
× 4.13.2\%
Q. 2 The length of the tangent to a circle from a point $P$, is 17 cm . Point $P$ is 20 cm away from the centre. What is the radius of the circle?

Ans

1. $\sqrt{111} \mathrm{~cm}$
2. $\sqrt{121} \mathrm{~cm}$
3. $\sqrt{126} \mathrm{~cm}$
4. $\sqrt{131} \mathrm{~cm}$
Q. 3 A chord of a circle of radius 21 cm makes a right angle at the centre. Find the area of major segment (take $\boldsymbol{\pi}=22 / 7$ ) closest to nearest integer.
Ans
$\times 1.1160 \mathrm{~cm}^{2}$
5. $1360 \mathrm{~cm}^{2}$
6. $1436 \mathrm{~cm}^{2}$
7. $1260 \mathrm{~cm}^{2}$
Q. 4 The value of $\sin 135^{\circ}+\cos 270^{\circ}$ is:

Ans

1. $\frac{-1}{\sqrt{3}}$
2. $\frac{-1}{\sqrt{2}}$
3. $\frac{1}{\sqrt{2}}$
4. $\frac{1}{\sqrt{3}}$
Q. 5 If a man deposits Rs. 12,100 in a bank at a simple interest of $15 \%$ per annum, then how much money will he receive from the bank after 3 years?
Ans
5. Rs. 17,545
6. Rs. 15,115
7. Rs. 17,200
8. Rs.16,520
Q. 6 X can complete a work in 5 days and Y in 10 days. If they work on it together for 2 days, then the fraction of the work that is left is:

Ans

1. $\frac{1}{2}$
2. $\frac{2}{5}$
3. $\frac{1}{5}$
4. $\frac{2}{3}$
Q. 7 A car travels at a speed of $40 \mathrm{~km} / \mathrm{h}$ for 15 minutes and at a speed of $72 \mathrm{~km} / \mathrm{h}$ for the next 5 minutes. The average speed of the car for the whole journey is:
Ans
X $1.41 \mathrm{~km} / \mathrm{h}$
5. $45 \mathrm{~km} / \mathrm{h}$
$3.43 \mathrm{~km} / \mathrm{h}$
6. $48 \mathrm{~km} / \mathrm{h}$
Q. 8 A sum of ₹2,400 is divided among A, B and C such that A receives $25 \%$ less than $B$ and $B$ receives $\mathbf{2 0 \%}$ less than $C$. The ratio between A's amount and B's amount is:
Ans
X1.5:4
7. $3: 4$
8. $4: 5$
4.3:5
Q. 9 If $\frac{x-1}{x}=5$, then the value of $1+\frac{1}{x^{2}}$ is:

Ans
$\times 1.18$
X2. 16
3. 27
4. 17
Q. 10 If the product $6352 \times 7 A 1$ is divisible by 12 , then the value of $A$ is:

Ans
$\times 1.5$
2. 4
3. 6
4. 3
Q. 11 Raj's monthly income was Rs. 12,000 and his monthly expenditure was Rs.8,500. Next year his income increased by $10 \%$ and his expenditure increased by $10 \%$. What was the percentage increase or decrease in his savings?
Ans
X 1.10\% decrease
X 2. 20\% decrease
2. $10 \%$ increase

X4. $20 \%$ increase
Q. 12 A cuboid of length 18 m , breadth 12 m , and height 8 m is melted and recast into a cube. Find the length of diagonal of the cube.
Ans

1. $12 \sqrt{ } 3 \mathrm{~m}$
2. $9 \sqrt{ } 3 \mathrm{~m}$
3. $18 \sqrt{ } 3 \mathrm{~m}$
4. $8 \sqrt{ } 3 \mathrm{~m}$
Q. 13 The following table shows the number of students in different streams in 5 departments. Study the table carefully and answer the question based on the table.

| Stream | Department |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | A | B | C | D | E |
| Physics | 400 | 500 | 350 | 300 | 600 |
| Chemistry | 750 | 600 | 700 | 500 | 450 |
| Mathematics | 350 | 400 | 450 | 500 | 650 |
| Computer <br> Science | 250 | 300 | 380 | 550 | 750 |

Find the ratio of students in departments A and B in Physics, Chemistry and Mathematics streams.
Ans
X1.3:1
X2.2:1
3. 1:1
4. 1:3
Q. 14 The following bar graph displays the information about the percentage marks of a student in six different subjects in the High School Examination. The maximum marks of all the subject are equal. Study the bar graph carefully and answer the question that follows.


What is the percentage score of all the six subjects combined?
Ans

1. 88.5 Percent

X 2. 90.6 Percent
X 3. 86.9 Percent
X 4.84.8 Percent
Q. 15 A seller sells oranges at the rate of 10 for Rs.28, gaining thereby $\mathbf{4 0 \%}$. For how much did he buy a dozen oranges?
Ans

1. Rs. 24
2. Rs. 48
3. Rs. 28
4. Rs. 20
Q. 16 A girl, 4 feet tall can cast a shadow on the ground that is 5 feet long. How tall is a boy who can cast a shadow that is $\mathbf{1 0}$ feet long?
Ans
1.7 feet
5. 8 feet
6. 5 feet
7. 6 feet
Q. 17 Find the fourth proportional to $m+3, m+7$ and $15 m$ if $m=3$.

Ans

1. 75
2. 62
3. 58
4. 50
Q. 18 A student obtained 72 marks in Biology, 84 marks in Hindi, 91 marks in Mathematics, 80 marks in Science and 73 marks in English (out of 100). Find his average marks.
Ans
$\times 1.60$
$\times 2.70$
$\checkmark$
5. 80
6. 65
Q. 19 A thief steals a scooter at 1:40 p.m. and drives it at $54 \mathrm{~km} / \mathrm{h}$. The theft is discovered at 2:10 p.m. and the owner sets off to chase the thief on another scooter at $72 \mathrm{~km} / \mathrm{h}$. At what time will he catch the thief?

Ans

1. 3:40 p.m.
2. 3:20 p.m.
3. $4: 50$ p.m.
4. 4:10 p.m.
Q. 20 A table showing the percentages of the total population of a state by age groups for the year 2019 is given.

| Age group <br> in years | Up to 16 | $17-24$ | $25-32$ | $33-40$ | $41-48$ | $49-56$ | 57 and <br> above |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Percentage | 28.00 | 16.35 | 17.20 | 14.45 | 15.21 | 7.15 | 1.64 |

Out of every 3,800 persons what is the number of persons below 25 years? (Correct to closest integer value)
Ans
X 1. 1,432 approx.
2. 1,543 approx.
3. 1,685 approx.
4. 1,264 approx.
Q. 21 Two pipes $X$ and $Y$ can fill a tank in 12 minutes and 18 minutes, respectively. If both the pipes are opened simultaneously, how long will it take to fill the tank?
Ans

1. $7 \frac{1}{5}$ minutes
2. 15 minutes
3. $\frac{5}{36}$ minutes
4. 14 minutes
Q. 22 Simplify the following:
$8.79 \times 8.79 \times 8.79-6.79 \times 6.79 \times 6.79$
$8.79 \times 8.79+8.79 \times 6.79+6.79 \times 6.79$
Ans
$\times 1.8$
$\times 2.14$

- 3.2
$\times 4.6$
Q. 23 A car is sold on for successive discounts of $10 \%, 12 \%, 15 \%$ and $20 \%$. If the selling price of the car is $₹ 1,68,300$, then what is the marked price of the car?
Ans
X 1. ₹4,25,600
- 2. ₹ $3,12,500$

X 3. ₹4,12,800
X4. ₹5,11,600
Q. 24 What is the value of $0.3 \overline{4}$ expressed as a fraction?

Ans

1. $\frac{34}{90}$
2. $\frac{31}{90}$

X3. $\frac{31}{100}$
$\times 4 . \frac{3444}{90}$
Q. 25 The average age of the father and his five children is 10 years which is decreased by 6 years if the age of the father is excluded. The age of the father is:
Ans
$\times 1.45$ years
$\times 2.25$ years
X 3.37 years
4. 40 years

## Section: General Awareness

Q. 1 In April 2021, was selected for the award instituted by the Pookkad
Kalalayam in Kozhikode, in memory of noted musician Malabar Sukumaran
Bhagavathar in recognition of her comprehensive contribution to classical dance.
Ans

1. P Ramadevi
2. Srirangam Gopalaratnam
3. Bhanupriya
4. Sreelakshmy Govardhanan
Q. 2 Who among the following leaders was known as 'Deshbandhu'?

Ans
X 1. Balashastri Jambhekar
2. Bal Gangadhar Tilak
3. Gopalhari Deshmukh
4. Chittaranjan Das
Q. 3 The name of which chemical element of group 1 was discovered in 1817 from the Greek word meaning stone?
Ans
X 1 . Sodium
2. Lithium
3. Hydrogen
4. Potassium
Q. 4 On 8 February 2009, for the $5^{\text {st }}$ Grammy Awards, $\qquad$ won in the category Contemporary World Music Album for his collaborative album Global Drum Project along with Mickey Hart, Sikiru Adepoju and Giovanni Hidalgo.
Ans

1. Anindo Chatterjee
2. Kumar Bose
3. Zakir Hussain
4. Swapan Chaudhuri
Q. 5 The language of the Aryan texts was:

Ans $\times 1$. Ardh-Magadha Prakrit
2. Sanskrit
3. Prakrit
4. Persian
Q. 6 By whom among the following personalities who lived in the White House is 'Living History' a famous book written?
Ans
X 1. Laura Bush
2. Hillary Rodham Clinton

X 3. Ivanka Trump
X 4. Melania Trump
Q. 7 Who among the following was defeated by Prithviraj Chauhan in the first battle of Tarain?
Ans

1. Mahmud Ghazni
2. Ittutmish
3. Qutbuddin Aibak
4. Muhammad Ghori
Q. 8 Who among the following appoints the Governor of State?

Ans
$X$ 1. The Attorney General
2. The President

X 3. The Vice President
4. The Prime Minister
Q. 9 Manika Batra won the 82nd Senior National Table Tennis Championship (Female Category) held at Panchkula in $\qquad$ 2021.

Ans

1. September
2. June
3. February
4. April
Q. 10 $\qquad$ union territory has the highest literacy rate as per 2011 census.
Ans
5. Lakshadweep
6. Chandigarh
7. Andaman and Nicobar Islands
8. Pondicherry
Q. 11 Which river was known as the 'Sorrow of Bengal'?

Ans

1. Damodar

X 2. Yamuna
X 3. Ganga
X 4. Kosi
Q. 12 Mozzarella, cheddar and camembert are varieties of:

Ans
X 1. vinegar
2. cheese
3. yoghurt
4. bread
Q. 13 Who among the following released a signature tune for 'Vande Bharatam' in March 2022?

Ans
X 1. Pratima Bhowmik
2. Smriti Zubin Irani
3. Anupriya Patel
4. Meenakshi Lekhi
Q. 14 Who among the following personalities is an exponent of the Manipuri dance form?

Ans

1. Rajkumar Singhajit Singh
2. Makar Dhwaja Darogha
3. MK Saroja
4. Kumudini Lakhia
Q. 15 Rana Pratap Singh fought against the Mughals at $\qquad$ in 1576.
Ans
5. Ranakpur
6. Kumbhalgarh
7. Chittor
8. Haldighati
Q. 16 Which Union Territory's appropriation Bill passed in Lok Sabha in 2021 allowed the Central Government to authorise payment and appropriation of certain further sums from and out of the Consolidated Fund of the said Union Territory for the services of the financial year 2020-21?
Ans
9. Lakshadweep
10. Delhi
11. Puducherry
12. Chandigarh
Q. 17 Which of the following is a micronutrient, and plays a role in cell division, cell growth, wound healing and the breakdown of carbohydrates?
Ans
13. Zn
14. Cu
$\times 3 . \mathrm{Ca}$
15. Fe
Q. 18 Cooperative sector industries are operated by producers and suppliers of raw material. Which of the following is an example of a cooperative sector industry?
Ans
16. TISCO
17. Sugar industry
18. BHEL
19. Oil India Ltd.
Q. 19 Under which Amendment to the Constitution Act was the reservation for OBCs in educational institutions made?
Ans
20. $94^{\text {th }}$ Amendment
21. $95^{\text {th }}$ Amendment
22. $93^{\text {rd }}$ Amendment
23. $96^{\text {th }}$ Amendment
Q. 20 Tsunami is NOT caused by:

Ans

1. Hurricanes
2. volcanic eruptions
3. Earthquakes
4. undersea landsides
Q. 21 Which state showed the lowest levels of poverty, according to the Multidimensional Poverty Index 2021?

Ans

1. Punjab
2. Goa
3. Kerala
4. Mizoram
Q. 22 The tomb of Sher Shah Suri is located at which of the following places?

Ans
X 1. Hyderabad
2. Sasaram

X 3. Shergarh
4. Patna
Q. 23 The first Republic Day parade was held in which of the following years?

Ans

1. 1951
2. 1949
3. 1950
4. 1952
Q. 24 Macaulay's Minute on Education was passed in:

Ans

1. 1835
$\times 2.1834$
$\times 3.1837$
2. 1832
Q. 25 How many members are there in the Committee on Public Undertakings in India?

Ans

1. 22
2. 15
3. 35
4. 30
