## Selection Post Phase IX 2021 Higher Secondary level

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 11/02/2022 |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Selection Post Higher Secondary Level |

Section: General Intelligence
Q. 1 Select the option that is related to the third word in the same way as the second word is related to the first word.

Advocate: Court : : Chef : ?
Ans
X 1. Taste
2. Kitchen

X 3. Cooking
X4. Food
Q. 2 Select the number from among the given options that can replace the question mark (?) in the following series.

26, 36, 30, 40, 34, 44, ?
Ans
$\times 1.41$
$\times 2.32$
$\times 3.54$
-4.38
Q. 3 Select the combination of letters, that when sequentially placed in the blanks of the given series, will complete the series.
$\mathrm{R}_{-} \mathrm{M}_{-} \mathrm{H}_{-} \mathrm{BRHM} \mathrm{C}_{-} \mathrm{HMB}$
Ans $\quad \times 1$ RBHMBR
X 2. HRBMBR
X 3. HBRMBM
4. HBRMBR
Q. 4 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.

5:31::7:?: : $9: 87$
Ans
$\times 1.52$
$\times 2.50$

* 3.55
$\times 4.60$
Q. 5 Select the correct mirror image of the given combination when the mirror is placed at ' PQ ' as shown.

GRWb32
Q
Ans

s \& d W ل

乙 \& d M Я כ
Q. 6 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 species are fishes.
All fishes are frogs.
No frog is a turtle.
Conclusions:
I. Some frogs are fishes.
II. Some species are frogs.
III. Some fishes are turtles.

Ans

1. Only conclusions I and II follow.
2. All conclusions I, II and III follow.
3. Only conclusions I and III follow.
4. Only conclusions II and III follow.
Q. 7 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

## Statements:

All chains are taps.
All taps are plastic.
Conclusions:
I. Some plastic are taps.
II. Some plastic are chains.

Ans

1. Both conclusions I and II follow
2. Only conclusion II follows
3. Only conclusion I follows
4. Either conclusion I or II follows
Q. 8 Eight friends $\mathrm{K}, \mathrm{L}, \mathrm{M}, \mathrm{N}, \mathrm{O}, \mathrm{P}, \mathrm{Q}$ and R , are sitting anticlockwise around a circular table facing the centre in the same sequence with equal distances between them. If $\mathbf{M}$ is sitting in the southwest direction, then in which direction is P sitting?
Ans
5. East
$X$ 2. Southeast
6. North-east
7. South
Q. 9 In a certain code language, 'PLASTIC' is written as 'TSPLICA', and 'DARWIN' is written as 'WRNIDA'. How will 'MANICURE' be written in that language?
Ans
8. NMURIECA
9. UMNRIECA
10. URNMIECA
11. URMNEICA
Q. 10 Select the option that is related to the third term in the same way as the second term is related to the first term.

EATING : VZGRMT :: PLASTIC : ?
Ans
X 1. KNZFGRX
2. LOZHGQX
3. KOZHGRX
4. KOZHGRY
Q. 11 Select the option that is related to the third term in the same way as the second term is related to the first term.

NEWTON : OPUXFO : : ZYGOTE : ?
Ans
X 1. FUOHXA
2. FUPHZA

X 3. AHZPSD
4. AZHPUF
Q. 12 'पिघलना’ का 'जमना' से वही संबंध है, जो ‘गंदा’ का ‘ $\qquad$ ' से है।
Ans1. कलुषित
2. बुरा
3. मैला
4. स्वच्छ
Q. 13 Six girls P, Q, R, S, T and $U$ are sitting in a straight line facing the North. $P$ is second from the left end. $R$ is to the immediate left of $T$. Only $Q$ is between $S$ and $R$. Who is sitting at the left end?

Ans
<1. T
2. $R$
3. S
4. U
Q. 14 A \$ $B$ means ' $A$ is the father of $B$ '
$A \& B$ means ' $A$ is the sister of $B$ '
$A @ B$ means ' $A$ is the brother of $B$ '
If $U \& Y \$ K \& H @ D$, then how is $U$ related to $D$ ?
Ans

- 1. Father's mother

2. Father's sister
3. Mother's sister
4. Sister's father
Q. 15 Which two numbers (not digits) need to be interchanged to make the following equation correct?
$15 \times \mathbf{6}+\mathbf{2 5 - 3 0 \div 5 = 9 5}$
Ans
X 1.25 and 6
X 2.25 and 30

- 3.6 and 5

X4. 15 and 30
Q. 16 Palak is the daughter of Nihal. Sulochna is the mother of Yashasvi. Prayag is the brother of Yashasvi. Pritam's only son Nihal is the father of Prayag. How is Sulochna related to Palak?

Ans
X 1. Sister
2. Mother
$\times$ 3. Niece
4. Daughter
Q. 17 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$g_{u} k_{-} r_{-} u_{-} m r_{-} u_{-} m_{-} t$
Ans
X1.mtgkgrk
2. mtgkgkr

X 3.mgtrgkr
X4.rtgkmkr
Q. 18 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. District
2. Village
3. World
4. Country
5. Continent

Ans
X 1.2, 1, 5, 4, 3
2. 2, 1, 4, 5, 3

X 3. 2, 1, 4, 3, 5
4. $2,4,1,5,3$
Q. 19 Select the number from among the given options that can replace the question mark (?) in the following series.

27, 27, 54, 81, ?
Ans

1. 108
$\times 2.90$
$\times 3.102$
$\times 4.136$
Q. 20 Select the option that is related to the third word in the same way as the second word is related to the first word.

Eczema : Itching: : Somnolence : ?
Ans
X 1. Emergency
$X 2$. Energetic
X 3. Fever
4. Drowsiness
Q. 21 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Ridicule
2. Righteous
3. Rhetoric
4. Rhyme
5. Ridge

Ans
X 1.4, 3, 5, 1, 2
X 2. 2, 4, 5, 1, 3

- $3.3,4,5,1,2$

X4.3,5, 4, 1, 2
Q. 22 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans

$\checkmark 2$.

$\times 3$.

$\times 4$

Q. 23 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 face showing ' 1 '.


Ans
$\times 1.6$
$\times 2.4$
-3. 3
$\times 4.5$
Q. 24 In a certain code language, 'BOSE' is coded as '4303810', and 'SPY' is coded as ' 383250 '. How will 'URANUS' be coded in that language?

Ans
$\times 1$

1. 42342264238
2. 40362283238
3. 42362284238
4. 44361284438
Q. 25 Select the figure from the options that can replace the question mark (?) and complete the pattern.


Ans


Section: English Language
Q. 1 Select the INCORRECTLY spelt word.

Ans
X 1. Illegal
X 2. Immediate
$X$ 3. Pathetic
4. Definately
Q. 2 Select the option that can be used as a one-word substitute for the given group of words.

Study of the earth and its structure and processes
Ans
$X$ 1. Philosophy
X 2. Psychology
2. Geology

X 4. Philanthropy
Q. 3 Select the most appropriate ANTONYM of the given word.

Inscrutable
Ans

1. Comprehensible
2. Enigmatic
$X$ 3. Amiable
3. Appropriate

Chosen Option: --
Q. 4 Select the most appropriate synonym of the given word.

Hardship
Ans
X 1. Miracle
2. Tribulation
3. Comfort
4. Benefit
Q. 5 Parts of the given sentence have been given as options. One of them contains a grammatical error. Select the option that has the error.

I am deeply concerned about children all over the world who've had been orphaned due to the pandemic.
Ans

1. due to
2. am deeply concerned
3. who've had been
4. all over the world

## Q. 6 Select the option that expresses the given sentence in indirect speech.

"Have you ever thought how difficult it is for the migrants to earn these days?" father asked his son.
Ans

1. Father had asked his son if he ever thought how difficult it was for the migrants to earned those days.
2. Father asked his son whether he had ever thought how difficult it was for the
migrants to earn those days.
3. Father asks his son if he has ever thought how difficult it was for the migrants to earn these days.
4. Father asked his son if he has ever thought how difficult it is for the migrants to earn these days.
Q. 7 Select the option that expresses the given sentence in passive voice.

My parents have promised that if I do well in my school exams, they'll send me to the US.

Ans

1. I have been promised by my parents that if I do well in my school exams, they'll send me to the US.
X 2. I am promised by my parents that if I do well in my school exams, they'll send me to the US.

X 3. I am being promised by my parents that if I do well in my school exams, they'll send me to the US.
4. I have promised by my parents that if I do well in my school exams, they'll send me to the US.
Q. 8 Select the most appropriate option to fill in the blank.

The suspects had to go through $\qquad$ parade so that the real culprit could be caught.
Ans
$X$ 1. the identified
$\times 2$. a identify
3. an identification

X4. an identify
Q. 9 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement'.

I decided to took matters in my own hands.
Ans
X 1. to be taking
$\times 2$. to takes

- 3. to take4. No improvement
Q. 10 Select the option that expresses the given sentence in indirect speech.

Mother said, "You must stay indoors to remain safe."
Ans
$X 1$. Mother told me that I have to stay indoors to remain safe.
2. Mother told me that I should stay indoors to remain safe.

X 3. Mother told me that I would stay indoors to remain safe.
X 4. Mother told me that I would have to stay indoors to remain safe.
Q. 11 Select the most appropriate meaning of the given idiom.

Be the devil's advocate
Ans

1. Stop supporting a friend
2. Present counter arguments
3. Stand opposite a person in court
4. Become a successful lawyer
Q. 12 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. I stood upon the hearth-rug and picked up the stick which our visitor had left behind him the night before.
B. Moreover, it was just such a stick as Mortimer, the old-fashioned family lawyer used
to carry-dignified, solid, and reassuring.
C. It was a fine, thick piece of wood, bulbous-headed, of the sort which is known as a
"Penang lawyer."
D. "Tell me, Watson, what do you make of our visitor's stick?" I asked after he had examined it.
Ans
X1.D, C, B, A
X 2.C,B,A,D
X 3.A, D, B, C
5. A, C, B, D
Q. 13 Select the option that can be used as a one-word substitute for the given group of words.

Something that is no longer in use
Ans
X 1. Contemporary
2. Obsolete
3. Faded
4. Aged

## Q. 14 Select the most appropriate meaning of the given idiom.

## A stitch in time saves nine.

Ans
$X 1$. It is good to stitch together small bits.
2. It is better to solve a problem straight away and not let it become bigger.

X 3. Time spent on useless activities must be avoided.
4. It is better to take timely action and you will become prosperous.

Question ID : 65497839790<br>Status: Answered

Chosen Option : 4
Q. 15 Select the option that expresses the given sentence in passive voice.

The nurse helped the patient to stand up.
Ans

1. The patient was helped by the nurse to stand up.
2. The patient was helping by the nurse to stand up.
3. The patient had been helped by the nurse to stand up.
4. The patient was being helped by the nurse to stand up.

## 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.

Oxygen fuels our living processes. It contracts our muscles, helps our cells to work, grow and regenerate, (1)___ our brains, calms our nerves, helps the heart to pump, fights infection and (2)___immunity," says Dr Narendra Nath Jena, Director, Institute of Emergency Medicine, MMH R Centre, Madurai. Once air enters the nose or mouth, it gets humidified and reaches (3) $\qquad$ alveoli. The alveoli are tiny air sacs that help to (4) $\qquad$ oxygen and transfer it into the blood stream and also to pull out the carbon dioxide and push it out of the lungs. COVID-19 destroys (5) $\qquad$ alveoli by thickening the walls so gas exchange becomes difficult.

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

Ans
$X 1$. feed
$X 2$. is feeding
3. feeds

X4.fed

## 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.

Oxygen fuels our living processes. It contracts our muscles, helps our cells to work, grow and regenerate, (1)___ our brains, calms our nerves, helps the heart to pump, fights infection and (2) immunity," says Dr Narendra Nath Jena, Director, Institute of Emergency Medicine, MMH R Centre, Madurai. Once air enters the nose or mouth, it gets humidified and reaches (3) $\qquad$ alveoli. The alveoli are tiny air sacs that help to (4) $\qquad$ oxygen and transfer it into the blood stream and also to pull out the carbon dioxide and push it out of the lungs. COVID-19 destroys (5) $\qquad$ alveoli by thickening the walls so gas exchange becomes difficult.

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

Ans
$X$ 1. thrusts
X 2. lowers
3. boosts
4. treats

## 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.

Oxygen fuels our living processes. It contracts our muscles, helps our cells to work, grow and regenerate, (1)___ our brains, calms our nerves, helps the heart to pump, fights infection and (2) immunity," says Dr Narendra Nath Jena, Director, Institute of Emergency Medicine, MMH R Centre, Madurai. Once air enters the nose or mouth, it gets humidified and reaches (3) $\qquad$ alveoli. The alveoli are tiny air sacs that help to (4) $\qquad$ oxygen and transfer it into the blood stream and also to pull out the carbon dioxide and push it out of the lungs. COVID-19 destroys (5) $\qquad$ alveoli by thickening the walls so gas exchange
becomes difficult.
SubQuestion No : 18

## Q. 18 Select the most appropriate option to fill in blank no. 3.

Ans
X1.a
2. the
$X$ 3. some
$\times 4$. an

## 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.

Oxygen fuels our living processes. It contracts our muscles, helps our cells to work, grow and regenerate, (1)___ our brains, calms our nerves, helps the heart to pump, fights infection and (2) immunity," says Dr Narendra Nath Jena, Director, Institute of Emergency Medicine, MMH R Centre, Madurai. Once air enters the nose or mouth, it gets humidified and reaches (3) $\qquad$ alveoli. The alveoli are tiny air sacs that help to (4) $\qquad$ oxygen and transfer it into the blood stream and also to pull out the carbon dioxide and push it out of the lungs. COVID-19 destroys (5) $\qquad$ alveoli by thickening the walls so gas exchange becomes difficult.

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

Ans
< 1. pull off
X 2. pull through
3. pull in
4. pull out

## 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.

Oxygen fuels our living processes. It contracts our muscles, helps our cells to work, grow and regenerate, (1)___ our brains, calms our nerves, helps the heart to pump, fights infection and (2)__ immunity," says Dr Narendra Nath Jena, Director, Institute of Emergency Medicine, MMH R Centre, Madurai. Once air enters the nose or mouth, it gets humidified and reaches (3) $\qquad$ alveoli. The alveoli are tiny air sacs that help to (4) $\qquad$ oxygen and transfer it into the blood stream and also to pull out the carbon dioxide and push it out of the lungs. COVID-19 destroys (5) $\qquad$ alveoli by thickening the walls so gas exchange
becomes difficult.
SubQuestion No : 20

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

Ans
X 1. those
$X$ 2. that
$\times$ 3. this
4. these

## Comprehension:

Read the following passage and answer the questions that follow.
Over the green squares of the fields and the low curve of a wood there rose in the distance a grey, melancholy hill, with a strange, jagged summit, dim and vague in the distance, like some fantastic landscape in a dream. Baskerville sat for a long time, his eyes fixed upon it, and I read upon his eager face how much it meant to him, this first sight of that strange spot where the men of his blood had held sway so long and left their mark so deep. There he sat, with his tweed suit and his American accent, in the corner of a railway-carriage, and yet as I looked at his dark and expressive face, I felt more than ever how true a descendant he was of that long line of high-blooded, fiery, and masterful men. There were pride, valour, and strength in his thick brows, his sensitive nostrils, and his large hazel eyes. If on that forbidding moor a difficult and dangerous quest should lie before us, this was at least a comrade for whom one might venture to take a risk with the certainty that he would bravely share it.
The train pulled up at a small wayside station and we all descended. Outside, beyond the low, white fence, a wagon was waiting. Our coming was evidently a great event, for station-master and porters clustered around us to carry out our luggage. It was a sweet, simple country spot, but I was surprised to observe that by the gate there stood two soldierly men in dark uniforms who leaned upon their short rifles and glanced keenly at us as we passed. The coachman, a hard-faced, gnarled little fellow, saluted Sir Henry Baskerville, and in a few minutes, we were flying swiftly down the broad, white road. Rolling pasture lands curved upward on either side of us, and old gabled houses peeped out from amid the thick green foliage, but behind the peaceful and sunlit countryside there rose ever, dark against the evening sky, the long, gloomy curve of the moor, broken by the jagged and sinister hills.

SubQuestion No : 21
Q. 21 Match the words from the passage with their meanings.

Word Meaning

1) moor a. grouped close together
2) gnarled b. open, grassy land
3) clustered c. wrinkled and rough in look

Ans
X1.1-b, 2-a, 3-c
X2.1-a, 2-c, 3-b
X 3.1-c, 2-a, 3-b
4.1-b,2-c, 3-a

## Comprehension:

Read the following passage and answer the questions that follow.
Over the green squares of the fields and the low curve of a wood there rose in the distance a grey, melancholy hill, with a strange, jagged summit, dim and vague in the distance, like some fantastic landscape in a dream. Baskerville sat for a long time, his eyes fixed upon it, and I read upon his eager face how much it meant to him, this first sight of that strange spot where the men of his blood had held sway so long and left their mark so deep. There he sat, with his tweed suit and his American accent, in the corner of a railway-carriage, and yet as I looked at his dark and expressive face, I felt more than ever how true a descendant he was of that long line of high-blooded, fiery, and masterful men. There were pride, valour, and strength in his thick brows, his sensitive nostrils, and his large hazel eyes. If on that forbidding moor a difficult and dangerous quest should lie before us, this was at least a comrade for whom one might venture to take a risk with the certainty that he would bravely share it.
The train pulled up at a small wayside station and we all descended. Outside, beyond the low, white fence, a wagon was waiting. Our coming was evidently a great event, for station-master and porters clustered around us to carry out our luggage. It was a sweet, simple country spot, but I was surprised to observe that by the gate there stood two soldierly men in dark uniforms who leaned upon their short rifles and glanced keenly at us as we passed. The coachman, a hard-faced, gnarled little fellow, saluted Sir Henry Baskerville, and in a few minutes, we were flying swiftly down the broad, white road. Rolling pasture lands curved upward on either side of us, and old gabled houses peeped out from amid the thick green foliage, but behind the peaceful and sunlit countryside there rose ever, dark against the evening sky, the long, gloomy curve of the moor, broken by the jagged and sinister hills.

SubQuestion No : 22
Q. 22 The narrator's opinion about Baskerville was that he: (Select the correct option)

## a. was a man of strength and pride

b. was dangerous looking with an angry face
c. would be a difficult person to handle
d. would be willing to risk his life in time of danger
e. belonged to a noble family

Ans
X1.a, c, d
2. a, d, e

X 3.b, d, e
X4.b, c, e

## Comprehension:

Read the following passage and answer the questions that follow.
Over the green squares of the fields and the low curve of a wood there rose in the distance a grey, melancholy hill, with a strange, jagged summit, dim and vague in the distance, like some fantastic landscape in a dream. Baskerville sat for a long time, his eyes fixed upon it, and I read upon his eager face how much it meant to him, this first sight of that strange spot where the men of his blood had held sway so long and left their mark so deep. There he sat, with his tweed suit and his American accent, in the corner of a railway-carriage, and yet as I looked at his dark and expressive face, I felt more than ever how true a descendant he was of that long line of high-blooded, fiery, and masterful men. There were pride, valour, and strength in his thick brows, his sensitive nostrils, and his large hazel eyes. If on that forbidding moor a difficult and dangerous quest should lie before us, this was at least a comrade for whom one might venture to take a risk with the certainty that he would bravely share it.
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SubQuestion No: 23
Q. 23 The visitors were received $\qquad$ at the station.
Ans $\quad \times 1$. with a lot of fanfare
$X$ 2. with no interest
X 3. with fear
4. with respect

## Comprehension:

Read the following passage and answer the questions that follow.
Over the green squares of the fields and the low curve of a wood there rose in the distance a grey, melancholy hill, with a strange, jagged summit, dim and vague in the distance, like some fantastic landscape in a dream. Baskerville sat for a long time, his eyes fixed upon it, and I read upon his eager face how much it meant to him, this first sight of that strange spot where the men of his blood had held sway so long and left their mark so deep. There he sat, with his tweed suit and his American accent, in the corner of a railway-carriage, and yet as I looked at his dark and expressive face, I felt more than ever how true a descendant he was of that long line of high-blooded, fiery, and masterful men. There were pride, valour, and strength in his thick brows, his sensitive nostrils, and his large hazel eyes. If on that forbidding moor a difficult and dangerous quest should lie before us, this was at least a comrade for whom one might venture to take a risk with the certainty that he would bravely share it.
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SubQuestion No : 24
Q. 24 Throughout the description of the character and setting, the writer creates a sense of
$\qquad$
Ans

1. mystery
$X$ 2. humour
X 3. charm
$\times 4$. peace

## Comprehension:

Read the following passage and answer the questions that follow.
Over the green squares of the fields and the low curve of a wood there rose in the distance a grey, melancholy hill, with a strange, jagged summit, dim and vague in the distance, like some fantastic landscape in a dream. Baskerville sat for a long time, his eyes fixed upon it, and I read upon his eager face how much it meant to him, this first sight of that strange spot where the men of his blood had held sway so long and left their mark so deep. There he sat, with his tweed suit and his American accent, in the corner of a railway-carriage, and yet as I looked at his dark and expressive face, I felt more than ever how true a descendant he was of that long line of high-blooded, fiery, and masterful men. There were pride, valour, and strength in his thick brows, his sensitive nostrils, and his large hazel eyes. If on that forbidding moor a difficult and dangerous quest should lie before us, this was at least a comrade for whom one might venture to take a risk with the certainty that he would bravely share it.
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SubQuestion No: 25
Q. 25 What seemed special about the place for Baskerville?

Ans
$X 1$. He had vague recollections about it.
$\times 2$. It was a place he had dreamt of visiting.
X 3. It was a dangerous looking place.
4. His family had held a position of power there.

Section: Quantitative Aptitude
Q. 1 The profit earned by selling an article for $₹ 1,664$ is equal to the loss incurred when the article is sold for $₹ 896$. What should be the selling price (in ₹) if it is sold at a profit of $10 \%$ ?
Ans
X1. 1,320
2. 1,280

+ 3. 1,500

4. 1,408
Q. 2 The difference between the selling price of some apples if sold for ₹ 15 per apple instead of ₹ 11 per apple is ₹ 800 . If the cost price of all the apples is ₹ 1,800 , the selling price (in ₹) of 20 apples if profit earned is $10 \%$ is:
Ans
5. 198
6. 189
7. 176
8. 200
Q. 3 If $a+b+c=8$ and $a b+b c+a c=14$, then what is the value of $\left(a^{3}+b^{3}+c^{3}-3 a b c\right)$ ?

Ans

1. 176
2. 624
3. 400
4. 278
Q. 4 If $2 x-y=2$ and $x y=\frac{3}{2}$, then what is the value of $\frac{1}{2}\left(x^{3}-\frac{y^{3}}{8}\right)$ ?

Ans

1. $\frac{13}{2}$
2. $\frac{13}{8}$
3. $\frac{13}{4}$
4. $\frac{13}{6}$
Q. 5 In a corporation election, two candidates fought for the post of Mayor. One candidate got $40 \%$ of the valid votes. $23 \%$ of the votes were invalid. If the total votes were 21000 , what is the number of valid votes that the other candidate got?

Ans

1. 9702
2. 9817
3. 9901
4. 9716
Q. 6 On a marked price, the difference between the selling prices with a discount of $35 \%$ and two successive discounts of $20 \%$ and $15 \%$ is ₹ 990 . The marked price of the article (in ₹) is

Ans
X 1. 30,000
2. 33,000

X 3. 36,000
4. 40,000
Q. 7 In $\triangle A B C$, right-angled at $B$, if $\tan A=\frac{1}{2}$, then the value of $\frac{\sin A(\cos A-\cos C)}{\cos C(\sin C-\sin A)}$ is:

Ans
X 1. -1
2. 1
3. -3
4. 3
Q. 8 The simple interest on a certain sum of money at the rate of $8 \%$ p.a. for 9 years is ₹ 2,880 . At what rate of interest can the same amount of interest can be received on the same sum for 12 years?

Ans
X1.10\%
$\times 2.8 \%$
, 3. $6 \%$
$\times 4.5 \%$
Q. $9 \mathrm{~A}, \mathrm{~B}$ and C are three boxes containing marbles in the ratio $2: 3: 5$, and the total number of marbles is 80 . If 6 marbles are transferred from A to B and 10 marbles are transferred from C to B , then the new ratio of marbles for $\mathrm{B}: \mathrm{A}: \mathrm{C}$ is:
Ans

1. $4: 1: 3$
2. $1: 5: 3$
3. $1: 5: 4$
4. $1: 4: 3$
Q. 10 In an isosceles triangle $A B C, A B=A C$ and $A D$ is perpendicular to $B C$. If $A D=5 \mathrm{~cm}$ and the perimeter of $\triangle A B C$ is 50 cm , then twice the length of $B C$ (in cm ) is:

Ans

1. 48
(2. 52
2. 42
3. 44
Q. 11 If the 11-digit number $89 x 6402087 y$ is divisible by 72 , then what is the value of $(2 x-y)$ ?

Ans

- 1. 14

X2. 16
$\times 3.15$
4. 13
Q. 12 How many numbers are there from 500 to 550 (including both) which are neither divisible by 3 nor by 11 ?

Ans
X1. 18
X2. 11
3. 28
4. 30
Q. 13 A and B can finish a job in 10 days and 5 days, respectively. They worked together for 2 days, after which B was replaced by C and the job was finished in the next 3 days. In how many days will C alone finish $50 \%$ of the job?
Ans

1. 18
2. 15
-3. 21
3. 30
Q. 14 The sum of three positive numbers is 202 . If the ratio of the first number to the second number is $2: 7$ and that of the second number to the third number is $5: 8$, the difference between the second and third numbers is;

Ans
X1. 12
2. 52
3. 42
4. 32
Q.15 The average weight of 44 members of a club is 68.5 kg . If 6 members of average weight 72.8 kg leave and 2 new members of average weight 56.1 kg join the club, then the average weight (in kg ) of the present members of the club is (correct to nearest integer):

Ans

1. 67
2. 61
3. 65
4. 69
Q. 16 A saves $35 \%$ of his income. His income is increased by $20.1 \%$ and expenditure is increased by $25 \%$. By what percentage does his saving increase or decrease?

Ans

1. $11 \%$ increase
2. $9 \%$ decrease
3. $13 \%$ increase
4. 14\% decrease
Q. 17 Study the given bar graph and answer the question that follows.

The bar graph shows the number of students enrolled in Institutes A and B during 5 years (2014 to 2018).


If the students of Institute A for each year are represented on a pie chart, then the angle corresponding to year 2016 will be:

Ans

1. $86.4^{\circ}$
$\times 2.72 .8^{\circ}$
X 3. $100.5^{\circ}$
2. $85.5^{\circ}$
Q. 18 The graph shows the daily wages of the workers (in ₹) for the number of workers. Study the graph and answer the question that follows.


The total number of workers whose daily wages are less than ₹ 500 is what percentage less than the total number of workers whose daily wages are ₹ 600 and above (correct to one decimal place)?

Ans

1. 18.2\%
2. $19.3 \%$
3. $16.7 \%$
4. $15.4 \%$
Q. 19 In $\triangle A B C, \angle A=66^{\circ}$ and $\angle B=50^{\circ}$. The bisectors of $\angle B$ and $\angle C$ meet at $P$. Then, $\angle B P C+\angle P C A=$ ?

Ans

1. $117^{\circ}$
2. $197^{\circ}$
3. $155^{\circ}$
4. $150^{\circ}$
Q. 20 A can complete a work in 15 days if he works for 8 hours a day. In order to complete the work in 12 days, for how many hours per day should he work?
Ans
5. 10 h
6. 12 h
7. 6 h 24 min
8. 8 h 48 min
Q. 21 The average of a set of 20 consecutive integers is 25.5 . What is the smallest integer in the set?

Ans
, 1. 16
$\times 2.11$
$\times 3.27$
$\times 4.35$
Q. 22 A person travels equal distances at speeds of $3 \mathrm{~km} / \mathrm{h}, 4 \mathrm{~km} / \mathrm{h}, 7 \mathrm{~km} / \mathrm{h}$ and $12 \mathrm{~km} / \mathrm{h}$, and takes a total of 680 minutes. What is the total distance (in km ) travelled?

Ans

1. 30
<2. 28
X3. 50
2. 56
Q. 23 The length, breadth and height of a rectangular box are in the ratio $3: 2: 4$, respectively, and the cost of covering it with a sheet of paper at the rate of ₹ 1.50 per square metre is ₹ 1,950 . Find $50 \%$ of the volume of the box (in $\mathrm{m}^{3}$ ).
Ans
$\times 1.1600$
3. 1750
4. 1800

- 4.1500
Q. 24 When the speed of a truck is increased by $20 \%$, it takes 25 minutes less to cover the same distance. What is the time (in hours) taken to cover twice the distance at its actual speed?
Ans

1. 6
2. 4
3. 5
4. 3
Q. 25 Study the given pie chart and answer the question that follows.

The pie chart shows the percentage-wise distribution of teachers who teach six different subjects.
Total number of teachers $=1600$


If three-eighth of the teachers who teach Chemistry are females, then the number of male Chemistry teachers is what percentage of the total number of teachers who teach Biology?

Ans

1. $75 \%$

X2. $45 \%$
X 3. $60 \%$
X4.55\%

## Section : General awareness

Q. 1 Which of the following metals has the highest electrical and thermal conductivity?

Ans $\times 1$. Tin
X 2. Copper
2. Silver

X 4. Mercury
Q. 2 Padma Bhushan awardee Pandit Devabrata Chaudhuri, who died in April 2021, was associated with which of the following musical instruments?
Ans

1. Sitar
2. Sarod
3. Flute
4. Tabla
Q. 3 Which of the following groups of animals are marine and characterised by a spiny skin?

Ans

1. Phylum Annelida
2. Phylum Echinodermata

X 3. Phylum Arthropoda
X 4. Phylum Mollusca
Q. 4 Khush Mahal within the walls of Warrangal Fort, was built in which of the following dynasties?
Ans
X 1. Lodi
2. Chola
3. Tughlaq

X 4. Khilji
Q. 5 निम्नलिखित में से किस राज्य ने फरवरी 2021 में सभी गांवों में मिशन 'लाल लकीर' को स्वीकृति प्रदान की, जो संपत्ति के अधिकारों का मौद्रिकीकरण करने तथा सरकारी विभागों, संस्थानों और बैंकों द्वारा दिए जाने वाले लाभ प्राप्त करने के लिए है?
Ans
X1. हरियाणा
2. पंजाब
$\times$
3. सिक्किम
4. ओडिशा
Q. 6 According to the Census of India 2011, which of the following Union Territories has the lowest density of population?
Ans

1. Lakshadweep
2. Andaman and Nicobar Islands
3. Puducherry
4. Daman and Diu
Q. 7 Which of the following institutions' researchers will collaborate with the Mobile Payment Forum of India to develop voice-based solutions for digital transactions?
Ans
5. IIT Kanpur
6. IIT Bombay
7. IIT Delhi
8. IIT Madras
Q. 8 Which of the following Schedules of the Constitution of India contains a list of central and state laws which CANNOT be challenged in courts?
Ans
X 1. Sixth Schedule
9. Twelfth Schedule
10. Third Schedule
11. Ninth Schedule
Q. 9 Which of the following forts is located in Rajasthan?

Ans
$X 1$. Sindhudurg Fort
X 2. Bidar Fort
3. Mehrangarh Fort

X 4. Asigarh Fort
Q.10 An introductory statement in a Constitution which states the reasons and guiding values of the Constitution is called $\qquad$ .

Ans
$\times 1$.
. Clause
2. Draft
$\times$
3. Office Memorandum
4. Preamble
Q. 11 Who among the following has written the book 'Manohar Parrikar - Off the Record'?

Ans

1. R Kaushik
2. AK Singh
3. SY Quraishi
4. Waman S Prabhu
Q. 12 Who among the following became the first Indian woman climber to scale Mt. Annapurna in April 2021?
Ans
5. Priyanka Mohite
6. Pranati Nayak
7. Arunima Sinha
8. Arundhati Subramaniam
Q. 13 Ozone depletion from the atmosphere becomes the reason for causing which of the following diseases?
Ans
9. Heart stroke
10. Brain stroke
11. Tuberculosis
12. Skin cancer
Q. $14 \ldots$ is the art of rearing silk worms under artificial or domesticated conditions and extraction of the silk fibre from their cocoon.

Ans

1. Viticulture
2. Floriculture

X 3. Arboriculture
4. Sericulture
Q. 15 Which of the following proteins is found in plasma?

Ans
X 1. Leptin
2. Keratin
3. Albumin
4. Insulin
Q. 16 Which of the following rivers has its source in the Sumeru glacier above the Kedarnath temple?
Ans
X 1. Ganges (Ganga)
X 2. Brahmaputra
3. Mandakini
4. Yamuna
Q. 17 Gombe Habba is a famous festival of which of the following states?

Ans

1. Karnataka
( 2. Maharashtra
2. Kerala
3. Tamil Nadu
Q. 18 According to the Jaina tradition, Mahavira was preceded by how many other teachers or Trithankaras?
Ans
$\times 1.12$
4. 23

- 3.56

4. 34
Q. 19 Loor is the famous dance from which of the following states?

Ans
X 1. Punjab
2. Gujarat

X 3. Assam
$\checkmark$
4. Haryana
Q. 20 Yarlung Tsangpo river which rises in Tibet, popularly known as $\qquad$ in India.
Ans

1. Alaknanda
2. Mandakini
3. Ganges
4. Brahmaputra
Q. 21 Starting from which of the following years did Raja Ram Mohan Roy publish the Sambad Kaumudi?
Ans
5. 1821
6. 1845
7. 1817
8. 1834
Q. 22 In which of the following years was the final Constitution adopted in India?

Ans

1. 1949
2. 1945
3. 1950
4. 1947
Q. 23 Which of the following revolutionary freedom fighters was assassinated by Abdul Rashid?
Ans
5. BR Ambedkar
6. Lala Lajpat Rai
7. Subhas Chandra Bose
8. Swami Shraddhanand
Q. 24 मई 2021 में, प्रधानमंत्री नरेंद्र मोदी की अध्यक्षता में केबिनेट द्वारा निम्नलिखित में से किस योजना के अंतर्गत तीसरे चरण (Phase-III) में दो और महीने के लिए अतिरिक्त खाद्यान्र आवंटित करने की मंजूरी दी गई?
Ans
9. प्रधानमंत्री आवास योजना
10. प्रधानमंत्री गरीब कल्याण अन्न योजना
11. प्रधानमंत्री स्वास्थ्य सुरक्षा योजना
12. दीन दयाल उपाध्याय ग्राम ज्योति योजना
Q. 25 Who among the following became the brand ambassador of ASICS in April 2021?

Ans
X 1. Tiger Shroff
X 2. Virat Kohli
3. Ravindra Jadeja

4 4. Deepika Padukone

