## Combined Higher Secondary Level Examination 2020 (Tier-I)

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 12/08/2021 |
| Exam Time | $9: 00$ AM - 10:00 AM |
| Subject | Combined Higher Secondary Level Exam 2020 |

## Section : English Language

Q. 1 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select ' $N o$ improvement'.

Did you do what I telling you to do yesterday?
Ans

- 1. what I told you

2. that I am telling you
3. No improvement
4. what I have told you
Q. 2 Select the most appropriate word to fill in the blank in the given sentence.

Unable to check her $\qquad$ Alice ran after the rabbit down the rabbit hole.
Ans
Х 1. nervousness
X 2. pleasure
X3. wisdom

- 4. curiosity
Q. 3 Fill in the blank with most appropriate word.

Thunder and lightning was $\qquad$ with heavy rain.

Ans
Х 1. accrued
X 2 . accorded

- 3. accompanied
- 4. accustomed
Q. 4 Select the most appropriate antonym of the given word.

MORBID
Ans
1 1 . horrid

- 2. cheerful

X 3. gloomy
Х4. cruel

## Q. 5 Select the correct passive form of the given sentence.

Mary Kom has won numerous boxing championships.
Ans
X 1. Numerous boxing championships are being won by Mary Kom.
$\checkmark 2$
2. Numerous boxing championships have been won by Mary Kom.
3. Numerous boxing championships were won by Mary Kom.

X 4. Numerous boxing championships had been won by Mary Kom.

## Q. 6 Select the correct indirect form of the given sentence.

My brother said to me, "Have you read the newspaper today?"
Ans

1. My brother asked me if you have read the newspaper today.
2. My brother asked me if I had read the newspaper today.

- 3. My brother asked me if I had read the newspaper that day.

4. My brother asked me have you read the newspaper today.

## Q. 7 Select the most appropriate ANTONYM of the given word.

AVOID
Ans

1. Meet
> 2. Avert
(3.Bypass

X4. Dodge
Q. 8 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

The interview will be conducted by 9 a.m. till 11 a.m.
Ans
Х 1 . No substitution
2. during 9 a.m. till 11 a.m.
3. from 9 a.m. to 11 a.m.4. from 9 a.m. until 11 a.m.
Q. 9 Select the most appropriate synonym of the given word.

ANTICIPATE
Ans
X 1 . Prefer
X 2 . Accept
3. Expect

X4. Doubt
Q. 10 Select the misspelt word.

Ans
-1. strugle
X 2 . propel
< 3.fulfil
< 4. several
Q. 11 Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
A. The town of Lustenau in Austria claims to have built a world record-breaking bonfire.
B. The structure took three months to build but collapsed in less than half an hour last Saturday evening.
C. Embers from the big fire fell onto nearby market traders, but local fire crews were on hand to make sure that everyone was safe.
D. According to the organizers, the pyre reached as high as $\mathbf{6 0}$ meters.

Ans
Х1.ABCD

- 2. $A D B C$

X 3.ACBD
Х4. ABDC
Q. 12 In the given sentence, identify the segment which contains a grammatical error.

Please refrain to going out without a face mask.
Ans
> 1. without a
2. going out3. Please refrain to

Х 4. face mask
Q. 13 Select the word which means the same as the group of words given.

An institution for the care of people who are mentally ill
Ans

- 1. Asylum

X 2. Sanatorium
3. Dormitory

X4. Infirmary
Q. 14 Select the most appropriate one-word substitution for the given words.
one who investigates and solves crimes
Ans
X 1 1 lawyer2. criminal

- 3. detective

X 4. journalist
Q. 15 In the given sentence identify the segment which contains the grammatical error.

Vincent Jonson, a musician, are going to lead an 80-man naval band in the Republic Day Parade this year.

Ans

- 1. are going to lead

Х 2. an 80-man naval band
Х 3 . Vincent Jonson, a musician
4. in the Republic Day Parade this year
Q. 16 Given below are four sentences in jumbled order. Select the option that gives their correct order.
A. He seemed to remain that high for nearly two years.
B. Kari, the elephant was five months old when he was given to me to take care of.
C. We grew together, that is probably why I never found out just how tall he was.
D. I was nine years old and I could reach his back if I stood on tiptoe.

Ans

- 1. BDAC

Х2. BCAD
Х3. ADCB
入4. DBCA
Q. 17 Select the INCORRECTLY spelt word.

Ans
人 1. Location
<2. Education
( 3. Meditation
4. Avertion
Q. 18 Select the most appropriate meaning of the given idiom.

Full of beans
Ans

1. Happy and energetic
2. Sad and dull
3. Being foolish
4. Have crazy ideas
Q. 19 Select the most appropriate synonym of the given word.

JEOPARDY
Ans

- 1. peril
< 2. destiny
< 3. safety
< 4. fortune
Q. 20 Select the most appropriate meaning of the underlined idiom in the given sentence.

Their marriage wasn't working but they kept up appearances.
Ans

1. maintained an expression of well being
2. maintained peace and harmony
3. kept throwing parties
4. revealed the truth

## Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Seventy-year-old Bapak Gilang sat in his favourite rocking chair in his (1) $\qquad$ villa. He was staring at the evening sky (2) $\qquad$ the open window. It was already (3) $\qquad$ and it was very windy. He (4) $\qquad$ the dark clouds and felt a little (5) $\qquad$ today. He reflected that like the dusk sky, his days were also wrapped in clouds of loneliness.

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

Ans

1. specific
2. spreading
3. spiral
4. spacious

## Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Seventy-year-old Bapak Gilang sat in his favourite rocking chair in his (1) $\qquad$ villa. He was staring at the evening sky (2) $\qquad$ the open window. It was already (3) $\qquad$ and it was very windy. He (4) $\qquad$ the dark clouds and felt a little (5) $\qquad$ today. He reflected that like the dusk sky, his days were also wrapped in clouds of loneliness.

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

Ans
< 1 . with
< 2. among
> 3. between

- 4. through


## Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Seventy-year-old Bapak Gilang sat in his favourite rocking chair in his (1) $\qquad$ villa. He was staring at the evening sky (2) $\qquad$ the open window. It was already (3) $\qquad$ and it was very windy. He (4) $\qquad$ the dark clouds and felt a little (5) $\qquad$ today. He reflected that like the dusk sky, his days were also wrapped in clouds of loneliness.

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

Ans


入2.noon
3.morning

X 4.dawn

## Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Seventy-year-old Bapak Gilang sat in his favourite rocking chair in his (1) $\qquad$ villa. He was staring at the evening sky (2) $\qquad$ the open window. It was already (3) $\qquad$ and it was very windy. He (4) $\qquad$ the dark clouds and felt a little (5) $\qquad$ today. He reflected that like the dusk sky, his days were also wrapped in clouds of loneliness.

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

Ans
X 1. glanced2. peered
3. stared
4. observed

## Comprehension:

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Seventy-year-old Bapak Gilang sat in his favourite rocking chair in his (1) $\qquad$ villa. He was staring at the evening sky (2) $\qquad$ the open window. It was already (3) $\qquad$ and it was very windy. He (4) $\qquad$ the dark clouds and felt a little (5) $\qquad$ today. He reflected that like the dusk sky, his days were also wrapped in clouds of loneliness.

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

Ans

- 1. pensive

X 2. innocent
3 3. attentive
4. delighted

## Section : General Intelligence

Q. 1 A cube is made by folding the given sheet. In the cube so formed, which of the following pairs of numbers will be on opposite sides?


Ans
X1. 2 and 3
X 2.1 and 6

- 3. 3 and 5

X 4.1 and 2
Q. 2 Select the option that is related to the third term in the same way as the second term is related to the first term.

Healthy Diet : Tiredness :: Carefulness : ?
Ans
Х 1. Activeness
X 2. Satisfied

- 3. Accident
(4. Successful
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. Indiscipline
2. Indetermination
3. Indelicate
4. Indictable
5. Independent

Ans

1. $3,5,2,4,1$
< 2.2,3,5,1,4
> 3 3,3,3,5,4,1
X $_{4,3,2,5,1,4}$
Q. 4 In a code language, LANCER is written as NALREC. How will NORWAY be written in that language?
Ans

- 1. RONYAW

X 2. YAWRON
X 3. YAWNOR
X4. RNOYAW
Q. 5 Select the number that can replace the question mark (?) in the following series.

46, 47, 94, 97, 388, ?
Ans
X1. 398

- 2.393

X 3.419
X4.411
Q. 6 Find the number of triangles in the given figure.


Ans
-1. 17
$\times 2.19$
$\times 3.15$
$\times 4.13$
Q. 7 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
_kI_lj_jkj_I_lj
Ans
Xi.jlklk

X2.kjllk
X3.lkljk

- 4.jklkk
Q. 8 Select the option in which the words share the same relationship as that shared by the given pair of words.

Sheep : Lamb
Ans
入 1. Leopard : Larva
2. Cow: Calf
3. Crow: Cub

X 4. Panda:Infant
Q. 9 Select the option figure which is embedded in figure X as its part (rotation is NOT allowed).


Figure $X$
Ans

Q. 10 Which two numbers should be interchanged to make the given equation correct?
$64+36 \div 3 \times 9-32=44$
Ans

- 1.3 and 9
. 2.32 and 36
X 3.64 and 36
X 4.9 and 64
Q. 11 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 ${ }_{1 \text { WBYT }}$
X 2 . YDWR

- 3. MRGB

X4.CHSN
Q. 12 In a certain code language, GATHER is coded as 107 and HONOUR is coded as 74 . How will HEAVEN be coded in that language?
Ans
2. 101
$\checkmark$
3. 110

X 4.113
Q. 13 Select the option that is related to the third number in the same way as the second number is related to the first number.

364:183:: 462 :?
Ans
X 1.297
X 2.279

- 3.232

X4.223
Q. 14 Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

Ans
Х1.1587
$\checkmark$
2. 3462

Х 3.1273
Х 4.5789
Q. 15 Three of the following four words are alike in a certain way and one is different. Select the odd one.
Ans
Х 1. Newspaper
2. Magazine

- 3. Publisher

X4.Book
Q. 16 Ranjan in his ODI Cricket career, scored 15 runs on an average in 10 matches. If he scored 14 runs on an average in the first 4 matches and 12 runs on an average in the last 4 matches, then find the average of the runs scored by him in the remaining 2 matches.
Ans
Х 1.24
2. 23

X 3.25
<4.22
Q. 17 Select the correct water image of the given letter-cluster.

EDZMKA
Ans
X ${ }^{1 . E D S M K V}$

- 2.EDSWK

X ${ }^{3 .}$ ヨDZWK W
X4.EDSWKA
Q. 18 Select the Venn diagram that best represents the relationship between the following classes.

Ridge Gourd, Vegetables, Turnip
Ans

$\times 2$.

Q. 19 A transparent sheet with a pattern is depicted in the given figure. Study the figure carefully and select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.


Ans

Q. 20 एक लड़के का परिचय देते हुए, लीला ने एना से कहा, "वह मेरे दादा-दादी के इकलौते बच्चे का इकलौता पुत्र है"। लड़का लीला से किस प्रकार संबंधित है?

Ans

1. पिता
2. चाचा
3. चचेरा भाई
4. भाई
Q. 21 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

PLMO : PNMQ:: UDMS: ?
Ans
Х1.RNEJ
入 2. TQFV
X3.TNCA

- 4. TNEV
Q. 22 Select the option in which the numbers share the same relationship as that shared by the numbers of the given set.
$(277,14,9)$
Ans
Х 1. $(364,11,12)$
X $2 .(123,17,8)$
- 3. $(313,12,13)$

X $4 .(198,15,8)$
Q. 23 Study the given pattern carefully and select the number that can replace the question mark
(?) in it.
121511
14517
16 ? 19
Ans
X1.9
v 2 .
Х 3.5
<4.3
Q. 24 Select the figure from among the given options that can replace the question mark (?) in the following series.

| $v$ $\Delta$ <br>   <br> 0  <br> 0  <br> 0 $p$ |  |  |  |   <br>   <br> 0  <br> 0  <br> 0  <br> 0  | ? |
| :---: | :---: | :---: | :---: | :---: | :---: |

Ans

ข1. | V | $\Delta$ | $=$ |  |
| :--- | :--- | :--- | :--- |
| 0 |  | $S$ |  |
| $\square$ |  |  |  |
| $C$ | $P$ |  |  |

> 2

| $V$ | $\triangle$ |  | $=$ |
| :--- | :--- | :--- | :--- |
| 0 |  | $S$ |  |
| $\square$ |  |  |  |
| $C$ |  | $P$ |  |

$<3$.

<4.

Q. 25 Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
All roads are cycles.
No cycle is a car.

## Conclusions:

I. Some cycles are roads.
II. No road is a car.
III. No car is a cycle.

Ans

1. All the conclusions follow

X2. Only conclusions I and III follow
3. Only conclusions II and III follow

X4. Only conclusions I and II follow
Q. 1 A sum of $₹ x$ is divided among $\mathrm{A}, \mathrm{B}$ and C such that the ratio of the shares of A and C is $8: 7$ and that of B and C is $3: 2$. If the difference between the shares of A and B is $₹ 240$, then what is the value of $x$ ?
Ans
X 1. 2544
$\times 2.2580$
X 3. 2490
-4. 2448

Status: Answered
Chosen Option : 4
Q. 2 If a pair of shoes marked at $₹ 350$ is offered at $₹ 308$, then what will be the discount percentage?

Ans
X 1.42\%
X 2. 13.6\%

- 3. $12 \%$

X $4.14 \%$
Q. 3 In $\triangle A B C, A D$ is the bisector of $\angle A$ meeting $B C$ at $D$. If $A B=15 \mathrm{~cm}, B C=10 \mathrm{~cm}$ and the length of $B D$ is 2 cm less than that of $D C$, then the length of $A C$ is:
Ans
$X 1.18 .5 \mathrm{~cm}$
$\times 2.18 \mathrm{~cm}$
X 3. 16 cm

- 4. 22.5 cm
Q. 4 Simplify the following expression.

$$
\frac{13 \frac{7}{9} \div \frac{2}{3} \text { of } \frac{1}{3}+\frac{2}{3} \times 3}{\frac{7}{5} \text { of } 325-20+7}
$$

Ans
X 1. $\frac{40}{1989}$
X 2. $\frac{31}{2210}$

- 3. $\frac{32}{221}$

X4. $\frac{33}{217}$
Q. 5 The value of $\operatorname{cosec}\left(58^{\circ}+\theta\right)-\sec \left(32^{\circ}-\theta\right)+\sin 15^{\circ} \sin 35^{\circ} \sec 55^{\circ} \sin 30^{\circ} \sec 75^{\circ}$ is:

Ans
X1.1
X2. 2

- 3. $\frac{1}{2}$

Х 4.0
Q. 6 Some persons went on an outstation tour. The histogram shows their ages.


How many persons are less than 20 years of age?
Ans

1. 22
$\times 2.31$
X 3.25
X4. 18
Q. 7 Study the given graph and answer the question that follows.


The total production of paper by company B in 2015 and 2017 to 2019 was what percentage less than $90 \%$ of the total production of paper by company A in 2014 to 2019 (correct to one decimal place)?
Ans
X 1. 22.4\%
X 2. 19.6\%
X 3. $21.2 \%$

- $4.17 .5 \%$
Q. 8 In $\triangle A B C, D$ and $E$ are points on $A B$ and $B C$, respectively, such that $D E$ is parallel to $A C$. If $D E=3 \mathrm{~cm}, \mathrm{AC}=5 \mathrm{~cm}$ and
the area of trapezium $\mathrm{ACED}=32 \mathrm{~cm}^{2}$, then what will be the area of $\triangle \mathrm{BDE}$ ?
Ans
$\times 1 . \frac{144}{17} \mathrm{~cm}^{2}$
$\times 2 . \frac{48}{5} \mathrm{~cm}^{2}$
$\times 3.16 \mathrm{~cm}^{2}$
- $4.18 \mathrm{~cm}^{2}$
Q. 9 Study the given pie chart and answer the question that follows.

Total number of students admitted in a college $=700$.
Distribution of the percentage of students in various courses.


Percentage-wise distribution of the number of boys.

| Course | Number of boys |
| :--- | :--- |
| B.Sc. Maths | $40 \%$ |
| B.Sc. Physics | $68 \%$ |
| B.Sc. Chemistry | $58 \%$ |
| B.Sc. Computer <br> Science | $80 \%$ |
| B.Com. | $75 \%$ |
| BBA | $65 \%$ |

The ratio of the total number of girls admitted in B.Sc. Maths to the total number of students admitted in B.Sc. Maths is:

Ans
X1.3:7
X2.4:7

- 3. $3: 5$

X4.2:5
Q. 10 In a circle with centre $O$ and radius 6.5 cm , a chord AB is at a distance 2.5 cm from the centre. If tangents at A and B intersect at $P$, then find the distance of $P$ from the centre.

Ans

1. 16.9 cm

X2. 18 cm
$\times 3.15 \mathrm{~cm}$
$\times 4.17 \mathrm{~cm}$
Q. 11 What is the compound interest (in ₹) on a sum of $₹ 46,000$ for $2 \frac{2}{5}$ years at $15 \%$ per annum, interest being compounded annually (nearest to a ₹)?

Ans
X1.18,458

- 2. 18,485

X 3. 19,485
X4.19,458
Q. 12 If $\sqrt{x}+\frac{1}{\sqrt{x}}=2 \sqrt{3}$, then what will be the value of $x^{4}+\frac{1}{x^{4}}$ ?

Ans
X 1.10402
X 2. 9606

- 3. 9602

X4. 10406
Q. 13 If $3 x-2 y+3=0$, then what will be the value of $27 x^{3}+54 x y+30-8 y^{3}$ ?

Ans
X 1. -27
$\times 2.57$
X 3. -57
4. 3
Q. 14 Chords $A B$ and $C D$ of a circle meet at point $P$ (outside the circle), when produced. If $A B=9 \mathrm{~cm}, P B=\frac{1}{3} A B$ and $C D=5 \mathrm{~cm}$, then the length of $P D$ (in cm ) is:

Ans
$\times 1.7$
$\times 2.6$
$\times 3.5$

- 4.4
Q. 15 By selling an article for $₹ 3,150$, a shopkeeper earns $5 \%$ profit. For how much money should he sell the article in order to gain $8 \%$ ?

Ans

- 1. ₹ 3,240

X 2. ₹ 3,180
X 3. ₹ 3,200
X4. ₹ 3,250
Q. 16 Given that $3 \sqrt{3} x^{3}-8 y^{3}=(\sqrt{3} x+A y)\left(3 x^{2}+B y^{2}+C x y\right)$, the value of $\left(A^{2}+B^{2}-C^{2}\right)$ is:

Ans
$\times 1.4$

- 2.8
$\times 3.12$
$\times 4.0$
Q. 17 A solid metallic sphere of radius 12 cm is melted and recast in the form of small spheres of radius 2 cm . How many small spheres are formed?

Ans

1. 24

X2. 96
$\times 3.864$
4. 216
Q. 18 A tap can fill a tank in 4 hours. Another tap can fill the same tank in 6 hours. If both the taps are opened at the same time, then in how much time will the empty tank be filled completely?

Ans
X1. 2 h 30 min

- 2. 2 h 24 min

X3. 3 h
X4. 2 h
Q. 19 If $\tan 3 \theta=\sin 45^{\circ} \cdot \cos 45^{\circ}+\cos 60^{\circ}$ and $3 \theta$ is an acute angle, then what will be the value of $\sin 4 \theta$ ?

Ans
-1. $\frac{\sqrt{3}}{2}$
X2. $\frac{1}{\sqrt{2}}$
>3. $\frac{1}{2}$
X4.1
Q. 20 A boat can go 15 km downstream and 8 km upstream in 2 h . It can go 20 km downstream and 12 km upstream in 2 h 50 min . What is the speed (in $\mathrm{km} / \mathrm{h}$ ) of the boat while going downstream?
Ans
$\times 1.16$

- 2. 15

X 3. 20
X4. 18
Q. 21 Study the given pie chart and answer the question that follows.

The pie chart shows the distribution (degree wise) of the number of computers sold by a shopkeeper during five months.

Total Number of Computers Sold $=\mathbf{5 4 0 0}$


- January
- February
- March
- April
- May

If the difference between the number of computers sold in May and the number of computers sold in February is $x$, then the value of $x$ will be:
Ans
X 1.450

- 2. 480
$\times 3.540$
$\times 4.420$
Q. 22 The average of 40 numbers is 48.2 . The average of the first 15 numbers is 45 and that of the next 22 numbers is 50.5 . The $38^{\text {th }}$ number is 1 more than the $39^{\text {th }}$ number, and the $39^{\text {th }}$ number is 3 less than the $40^{\text {th }}$ number. What is the average of the $39^{\text {th }}$ and $40^{\text {th }}$ numbers?

Ans
入1. 48
X2. 49

- 3. 47.5

X4. 48.5
Q. 23 If the five-digit number $457 a b$ is divisible by 3, 7 and 11 , then what is the value of $a^{2}+b^{2}-a b$ ?

Ans
-1. 49
Х 2.36
X 3.24
X4.33
Q. 24 Renu spends $68 \%$ of her income. When her income increases by $40 \%$, she increases her expenditure by $30 \%$. Her savings are increased by:
Ans
X $1.62 .5 \%$
$\times 2.37 .98 \%$

- 3. $61.25 \%$

X 4. $51.6 \%$
Q. 25 If $\tan \theta+\cot \theta=3$, then what will be the value of $\tan ^{2} \theta+\cot ^{2} \theta$ ?

Ans
X1. 1

- 2.7

X 3. 11
X $4 .-1$

## Section : General Awareness

Q. 1 Coringa is a beautiful $\qquad$ forest where the Godavari joins the backwaters of Bay of Bengal.
Ans
> 1 . evergreen
< 2. coniferous
3. mangrove
4. deciduous
Q. 2 Arthunkal Feast and Vettukad Festival are church festivals from the state of $\qquad$ _.
Ans

1. Nagaland

X 2 . Goa
X 3. Sikkim

- 4. Kerala
Q. 3 Who among the following has received the Female Sportsperson of the Year Award at the FICCI India Sports Award in December 2020?
Ans
Q. 4 Which Indian state is divided into Majha, Doaba and Malwa regions?

Ans
< 1. Assam
< 2. Karnataka

- 3. Punjab

4. Madhya Pradesh
Q. 5 Who is the second Indian footballer to play 100 international games?

Ans 1. Bhaichung Bhutia

- 2. Sunil Chhetri

3. Gurpreet Singh Sandhu
(4. Udanta Singh
Q. 6 Rain is liquid $\qquad$
Ans

- 1. precipitation
< 2. condensation
< 3. decantation
\$4. sedimentation
Q. 7 In which of the following years did the Indian National Congress make the demand for a Constituent Assembly?
Ans
3

2. 1919
< 3.19284. 1934
Q. 8 For the residents of which of the following union territories PM Narendra Modi has launched Ayushman Bharat - Pradhan Mantri Jan Arogya Yojna (AB - PMJAY) 'Sehat Scheme' in December 2020?
Ans
< 2. Ladakh
( 3. Chandigarh
(4. Puducherry
Q. 9 The Indian Mutiny of 1857 effectively ended in the city of $\qquad$
Ans

- 1. Gwalior
(2. Amritsar
<3. Lucknow
(4. Vadodara
Q. 10 In which of the following years PM-KISAN (Pradhan Mantri Kisan Samman Nidhi) was formally launched?
Ans

Q. 11 What is the pH value of acidic substances?

Ans
<1. Below 1.0
<2. Below 4.0
< 3 . Below 2.0
4. Below 7.0
Q. 12 Who among the following cricketers is the brand ambassador of a fantasy sports gaming platform, Paytm First Games?
Ans

- 1. Sachin Tendulkar
(2. Rohit Sharma

3. Yuvraj Singh
(4. Virat Kohli
Q. 13 Which amendment of the Constitution of India incorporated Goa, Daman and Diu as the eighth union territory of India, by amending the First Schedule to the Constitution?

Ans
> 1.13th
<2. 10th

- 3.12th
(4.18th
Q. 14 Chambal is a tributary of which of the following rivers?

Ans
< 1. Narmada

- 2. Yamuna
* 3. Ganga

Х 4. Brahmaputra
Q. 15 Who among the following became the first Indian-Kiwi woman to become a minister in New Zealand in 2020?
Ans

- 1. Priyanca Radhakrishnan

2. Manisha Singh
< 3. Seema Verma
3. Anita Anand
Q. 16 Who among the following was the first Indian to win the Miss World beauty pageant?

Ans

- 1. Reita Faria
< 2. Aishwarya Rai
< 3. Diana Hayden
(4. Priyanka Chopra
Q. 17 Which of the following is a method of describing computer algorithms using a combination of natural language and programming language?
Ans

1. Node2. Pseudocode
X 3. Flowchart
(4. Array
Q. 18 $\qquad$ is a process of forming a thick oxide layer of aluminium.
Ans
2. Galvanisation
3. Ductility
4. Corrosion
5. Anodising
Q. 19 When is the National Consumer Rights Day observed in India every year?

Ans
< 1.13 March
K2. 2 October

- 3. 24 December
<4. 24 November
Q. 20 In which state will you find Mayurbhanj district, the last among the princely states, that merged with the state?
Ans
- 1. Kerala

2. Jharkhand

ง 3. Odisha
4. Chhattisgarh
Q. 21 is an interpreted, high-level and general-purpose programming language.
Ans

(2. Spider

* 3. Penguin
(4. Cookie
Q. 22 Who among the following had authored 'Buddha Gaya: The Hermitage of Sakya Muni' in 1878?

Ans

1. Alexander Cunningham

- 2. Rajendralala Mitra

X 3. HH Cole
(4. John Marshall
Q. 23 NTPC and ___ have signed an MoU to set up a joint venture for 'renewable energy business'.
Ans

1. Reliance Petroleum
< 2. Coal India
< 3. NHPC Limited

- 4. ONGC
Q. 24 Colonel (retd) Narendra Kumar, an Indian soldier and $\qquad$ passed away in December 2020.

Ans

1. mountaineer
Q. 25 Kalbelia folk songs and dance forms are an expression of the Kalbelia community's traditional way of life. It is associated with which of the following states?

Ans
(1. Maharashtra
(2. Haryana
$\checkmark 3$
3. Rajasthan
<4. Punjab

## Combined Higher Secondary Level Examination 2020 (Tier-I)

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $12 / 08 / 2021$ |
| Exam Time | 12:00 PM - 1:00 PM |
| Subject | Combined Higher Secondary Level Exam 2020 |

## Section : English Language

Q. 1 In the given sentence, identify the segment which contains the grammatical error.

Despite warnings the driver continued to speed and have been caught by the traffic police.
Ans

1. Despite warnings

- 2. and have been caught

3. the driver continued to speed
4. by the traffic police
Q. 2 Select the most appropriate option to fill in the blank.

It has been announced that after a gap of almost two months, domestic flight services will from next week.

Ans

1. retake

X 2. advance
< 3. proceed

- 4. resume


## Q. 3 Select the most appropriate meaning of the given idiom.

Method to one's madness
Ans
Х 1. Being very neat and particular about details

- 2. Seeming disorderly yet having a structure

3. Always behaving like a mad person
4. Not following rules and conventions
Q. 4 Select the INCORRECTLY spelt word.

Ans
< 1. problem
$v$
2. proccesion

X 3. proclaim
< 4. procurement
Q. 5 Given below are four jumbled sentences. Out of the given options, pick the one that gives their correct order.
A. One day the tailor and his wife discovered that their son was not in the house.
B. The father went to the roadside and shouted, "John!"
C. No one answered.
D. They looked in the garden, and did not find him there.

Ans

- 1. ADBC
< 2. BACD
< 3. ABDC
<4. BDAC
Q. 6 In the given sentence, identify the segment which contains the grammatical error.

All the ladies of the colony assemble in the temple and prays together on Sunday evenings.
Ans
(1. assemble in the temple

- 2. and prays together

3. All the ladies of the colony

4 4. on Sunday evenings
Q. 7 Select the most appropriate ANTONYM of the given word.

MOROSE
Ans
X 1. mournful
X 2. gloomy

- 3. cheerful

X 4. sullen
Q. 8 Examine the four jumbled sentences. Out of the given options, pick the one that gives their correct order.
A. Wasserkopf returns to his school and asks for a refund of his tuition fee.
B. 'Refund' by Karinthy is a hilarious play about a student named Wasserkopf.
C. However, the situation changes when the Mathematics teacher asks him to calculate the total amount.
D. He further declares that he had learnt nothing at school in all the years.

Ans
Х1.ADCB
< 2 b bad
Х 3 CBAD

- 4. BADC
Q. 9 Select the INCORRECTLY spelt word.

Ans
X 1. healthiest

- 2. angryest

Х 3.straightest
< 4. disinterest
Q. 10 Select the most appropriate synonym of the given word.

SAGA
Ans

- 1. narrative

X 2. abuse
X 3 . film
(4.sport
Q. 11 Select the most appropriate meaning of the given idiom.

Get out of hand
Ans

1. To get irritated
v
2. To become difficult to control
3. To be able to complete a task

Х4. To be anxious
Q. 12 Select the option which means the same as the group of words given.

A person who helps others in need
Ans
<1. donor
< 2. patron3. samaritan
\$ 4. contributor
Q. 13 Select the most appropriate synonym of the given word.

WREAK
Ans
>1.fail

- 2. cause

X 3. forget
(4.neglect
Q. 14 Select the correct passive form of the given sentence.

How many languages do you learn at school?
Ans

1. How many languages will you learn at school?
2. Languages are learnt by how many at school?
3. How many languages are being learnt by you at school?4. How many languages have you being learnt by you learning at school?
Q. 15 Select the option which means the same as the group of words given.

One who eats human flesh
Ans
X 1. ethnic
> 2 . tribal
3.humane

- 4. cannibal
Q. 16 Select the correct indirect form of the given sentence.

The chemist said to me, "I cannot take these medicines back as they are special medicines."
Ans

1. The chemist told me that he cannot take these medicines back as they are special medicines.
2. The chemist told me that he could not take those medicines back as they were special medicines.
3. The chemist told me that I cannot take these medicines back as they are special medicines.
4. The chemist told me that he could not take these medicines back as they are special medicines.
Q. 17 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

I would have told you if I receive the medicines.
Ans
Х 1. No substitution
2. had received
3. would receive
<4.am receiving
Q. 18 Select the most appropriate ANTONYM of the given word.

SURREPTITIOUS
Ans
X 1 . lazy

- 2. open

X 3. secret
(4.slow
Q. 19 Select the most appropriate option to fill in the blank.

Delhi University's new institution called School of Public Health will offer a $\qquad$ of programs.
Ans
Х 1 . scale
2. plethora

X 3 .few
X4.branch
Q. 20 Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select ' No improvement'

Despite living in the same neighbourhood, we only did not greet each other.
Ans

- 1 . still

X 2. mainly
<3.even
Х4. No improvement

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Nehru was a great patriot. He said, "I have received so (1) $\qquad$ love and affection from the Indian people (2) $\qquad$ nothing that I can do can repay (3) $\qquad$ a small fraction of it, and indeed there (4) $\qquad$ be no repayment of the great affection my fellow countrymen have
showered on (5) $\qquad$
SubQuestion No : 21
Q. 21 Select the most appropriate option for blank no. 1.

Ans
Х 1.many
X 2. more
> 3. little
v 4 . much

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Nehru was a great patriot. He said, "I have received so (1) $\qquad$ love and affection from the Indian people (2) $\qquad$ nothing that I can do can repay (3) $\qquad$ a small fraction of it, and indeed there (4) $\qquad$ be no repayment of the great affection my fellow countrymen have
showered on (5) $\qquad$ ?

SubQuestion No : 22
Q. 22 Select the most appropriate option for blank no. 2.

Ans
X 1. this

- 2. that

3. either
(4.these

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Nehru was a great patriot. He said, "I have received so (1) $\qquad$ love and affection from the Indian people (2) $\qquad$ nothing that I can do can repay (3) $\qquad$ a small fraction of it, and indeed there (4) $\qquad$ be no repayment of the great affection my fellow countrymen have
showered on (5) $\qquad$
SubQuestion No : 23
Q. 23 Select the most appropriate option for blank no. 3.

Ans

1. either
< 2. only
-3. even
4 4. mainly

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Nehru was a great patriot. He said, "I have received so (1) $\qquad$ love and affection from the Indian people (2) $\qquad$ nothing that I can do can repay (3) $\qquad$ a small fraction of it, and indeed there (4) $\qquad$ be no repayment of the great affection my fellow countrymen have showered on (5) $\qquad$ -

SubQuestion No : 24
Q. 24 Select the most appropriate option for blank no. 4.

Ans
X 1 . should
< 2 . ought
$\checkmark$
3. can4. may

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Nehru was a great patriot. He said, "I have received so (1) $\qquad$ love and affection from the Indian people (2) nothing that I can do can repay (3) $\qquad$ a small fraction of it, and indeed there (4) $\qquad$ be no repayment of the great affection my fellow countrymen have
showered on (5) $\qquad$ -

SubQuestion No : 25
Q. 25 Select the most appropriate option for blank no. 5.

Ans
Х1.1
2.mine

- $3 . \mathrm{me}$

4. myself

## Section : General Intelligence

Q. 1 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

RUNZ : IGLC :: WZSE : ?
Ans
X 1.cafz
< 2 .LJOG

- 3. DBGX

X4. DFAJ
Q. 2 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

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. Presentation
2. Preventive
3. Preparation
4. Pretension
5. Prescription

Ans

- $1.3,5,1,4,2$
< 2. 3, 1, 5, 4, 2
<3.3,5,1,2,4
< $4.3,4,2,1,5$
Q. 4 Select the option in which the numbers are related in the same way as are the numbers of the following set.
\{12, 20, 32\}
Ans
> 1. $\{27,49,63\}$
< 2. $\{6,10,16\}$
- 3. $\{18,30,48\}$

X 4. $\{21,28,56\}$
Q. 5 उस वेन आरेख का चयन करें, जो निम्न वर्गों के बीच के संबंध को सर्वोत्तम ढंग से निरुपित करता है।

पुरुष, चाचा, शिक्षित
Ans

Q. 6 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

16359
18338
34? 5
Ans

- 1.32

X2.34
X 3.35
入4.33
Q. 7 निम्नलिखित जानकारी को ध्यान से पढ़ें और नीचे दिए गए प्रश्न का उत्तर दें।
'K \$ D' का अर्थ है ' $D$ का पिता $K$ है'।
' $K<D^{\prime}$ ' का अर्थ है ' $D$ की पत्नी $K$ है'।
' $K>D$ ' का अर्थ ' $D$ की बेटी $K$ है'।
'K @ D' का अर्थ है ' $D$ का पुत्र $K$ है'।
व्यंजक 'H > R \$ S @ T > N' में, H, N से किस प्रकार संबंधित है?
Ans

1. पोती (Grand-daughter)

Х 2. बेटी (Daughter)
3. भांजी (Niece)
4. बहु (Daughter-in law)
Q. 8 A cube is made by folding the given sheet. In the cube so formed, what would be the number on the opposite side of
'1'?

3

1

6
5
2
4
Ans
Х1.4

- 2. 2

Х 3.6
X4. 5
Q. 9 The average marks of eight students in the Mathematics exam are 75. If the highest and lowest marks are removed, then the average marks become 80 . If the ratio of the highest marks to the lowest marks is $3: 1$, then the highest marks are what percentage of the sum of the all the marks obtained by the eight students in the Mathematics exam?
Ans

- $1.15 \%$
> $2.18 \%$
< $3.20 \%$
>4.12\%
Q. 10 Select the number from among the given options that can replace the question mark (?) in the following series.

7, 10, 18, 29, ?, 78
Ans
入1.54
Х 2.45

- 3.48
$\times 4.51$
Q. 11 In a certain code language, BIRTH is coded as 25129719 and DEVIL is coded as 23851215. How will GLORY be coded in that language?
Ans
X 1.21082519
- 2.20151892

Х 3.20181529
X4. 25110928
Q. 12 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

(X)
(Y)
(Z)

Ans


$\times 3 .$| $0^{\circ} \triangle$ |
| :--- |
| $\nabla \square \Delta$ |
| $\nabla$ |
| $\nabla_{0}{ }^{\circ}$ |


Q. 13 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.

$\times 2$

$\checkmark 3$

$\times 4$

Q. 14 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different

Ans
X 1 . Violet
< 2 . Yellow

- 3. Orange
- 4. Black
Q. 15 'Risk' is related to 'Hazard' in the same way as 'Absurd' is related to ' $\qquad$ '.

Ans
X 1. Paranormal
X 2. Hypothetical
X 3 Immoral
4. Ridiculous
Q. 16 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$c_{-} t e m c p \_e m_{-} p t_{-}$
Ans

1. ptcem

X2.pectm
X3.ctmep
X4.mpetc
Q. 17 उस विकल्प का चयन करें, जिसमें शब्द एक दूसरे से उसी प्रकार संबंधित हैं, जिस प्रकार वे दिए गए शब्द युग्म में एक दूसरे से संबंधित हैं।

जाम्बिया : लुसाका
Ans

1. कुवैत : सियोल
2. बहरीन : मनामा
3. इज़राइल : तेहरान
4. भूटान : ढाका
Q. 18 Find the number of triangles in the given figure.


Ans
X 1.14
2. 10
<3.8
4. 12
Q. 19 Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

Ans2. 1983. 326
4. 378
Q. 20 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 dogs are carnivores.
All carnivores are animals.
Some animals are tigers.
Conclusions:
I. Some tigers are dogs.
II. Some carnivores are tigers.
III. All dogs are animals.

Ans

1. Only conclusion II follows.
< 2. Only conclusions I and III follow.
2. Only conclusion I follows.

- 4. None of the conclusions follow.
Q. 21 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
< 1. PTZW
< 2. MQWT

* 3. FJPM

4. TXDB
Q. 22 Which two signs should be interchanged to make the following equation correct?
$6+12 \times 8 \div 16-12=8$
Ans
> $1 . \times$ and $\div$

- $2 . \div$ and +
(3.-and+

人4.+and $\times$
Q. 23 In a certain code language, RATIONALE is written as NOIELATAR. How will STATEMENT be written in that language?

Ans

- 1. mettneats

X 2. etatnemts
> 3. METTAENSt
X4.emttnetas
Q. 24 Select the correct mirror image of the given figure when the mirror is placed at the right side of the figure.


Ans

Q. 25 Select the option that is related to the third number in the same way as the second number is related to the first number.

8:36::12:?
Ans
Х 1.80
> 2.82

- 3.78
$\times 4.79$
Q. 1 If the nine-digit number 259876 p05 is completely divisible by 11 , then what is the value of $\left(p^{2}+5\right)$ ?

Ans
X1. 48
X2. 45

- 3. 54

X4. 50
Q. 2 If $5 \tan \mathrm{~A}=12$, then what is the value of $\frac{13 \sin A+20 \tan A}{15 \tan A-13 \cos A}$, where A is an acute angle?

Ans
$\times 1 \cdot \frac{31}{41}$
$\times 2 \cdot \frac{41}{50}$
X3. $1 \frac{19}{41}$

- 4. $1 \frac{29}{31}$
Q. 3 The side $Q R$ of a triangle $P Q R$ is extended to a point S . If $\angle P R S=104^{\circ}$ and $\angle R Q P=\frac{3}{5} \angle Q P R$, then the value of $\angle Q P R$ is:

Ans
-1. $65^{\circ}$
$\times 2.55^{\circ}$
$\times 3.45^{\circ}$
$\times 4.58^{\circ}$
Q. 4 The value of $56 \div[12+9 \div 3-\{8+(18$ of $2 \div 9)-(40 \div 5$ of 2$)\}]+\frac{27+\frac{2}{5} \text { of } 75}{5+\frac{2}{3} \times(58-37)}$ is:

Ans
X 1.8

- 2. 11

X 3. -11
X4. -8
Q. 5 O is the centre of a circle of radius $9 \mathrm{~cm} . \mathrm{M}$ is a point outside the circle and MN is a tangent to the circle. What is the length (in cm ) of OM if the length MN is 12 cm ?
Ans
X1. 17
$\times 2.12$

- 3.15
$\times 4.21$
Q. 6 Study the following bar graph and answer the question given below.

The bar graph represents the total number of applications received for B.Sc.
Mathematics by two different colleges A and B in 5 different years.


In 2015, out of the total number of applications received by colleges A and B together, only $60 \%$ were accepted. What were the total number of applications accepted by colleges A and B together in 2015?

Ans
X 1.250
$\times 2.260$
3. 240
$\times 4.180$
Q. 7

Study the given bar graphs and answer the question that follows.
The bar graphs represent the amount invested in raw materials (in ₹ crore) and the sale of the products, by a textile company in the years 2007-2012. The X-axis represents the years. The Y-axis represents the amount invested in raw materials (in ₹ crore) in figure 1 and sale of products in figure 2, respectively.


Figure 1


Figure 2
In 2011, the sale of products had increased by certain percentage with respect to the previous year. In 2012, by what percent should the sale of products increase from its present value so that it shows the same percent increase as had been shown in 2011?

Ans
$\times 1.94$
$\times 2.98$

- 3.96
$\times 4.95$
Q. 8 If $\sin ^{2} x=3 \cos ^{2} x$ and $0^{\circ} \leq x \leq 90^{\circ}$, then what is the value of $\frac{x}{2}$ ?

Ans
X $1.22 .5^{\circ}$
$\times 2.45^{\circ}$
$\times 3.15^{\circ}$
4. $30^{\circ}$
Q. 9 Study the given graph and answer the question that follows.

Number of computers of type A and type B of a company sold by a dealer during six months of a year


The average number of computers of type B sold in January, February and June exceeds by 20 the number of computers of type A sold in:

Ans
X 1. March
X2. April
X 3. June

- 4. May
Q. 10 A man invested $₹ 2,400$ at $5 \%$ and $₹ 5,400$ at $9 \%$ simple interest. What amount (in $₹$ ) will he get from his investments after 6 years?

Ans
X 1. 45,600
$\times 2$
2. 31,200
3. 83,136
4. 11,436
Q. 11 If $a=\frac{\sqrt{5}+2}{\sqrt{5}-2}$ and $b=\frac{\sqrt{5}-2}{\sqrt{5}+2}$, then the value of $2 a^{2}+2 b^{2}-5 a b$ is equal to:

Ans
X 1.693
X 2.649
$\times 3.635$

- 4.639
Q. 12 The value of $a^{3}+b^{3}+c^{3}-3 a b c$, when $a=125, b=127$ and $c=129$, is:

Ans $\quad$ 1. 4725

- 2. 4572
$\times 3.4752$
$\times 4.3752$
Q. 13 The marked price of a table is $₹ 3,000$, which is $25 \%$ above the cost price. It is sold at a discount of $20 \%$ on the marked price. What is the profit or loss per cent?
Ans
X 1. Loss, $5 \%$
X 2. Profit, $10 \%$
X 3. Profit, $15 \%$

4. No profit, no loss
Q. $14 \triangle \mathrm{ABC}$ is drawn in a circle such that $\mathrm{AC}=\mathrm{BC}$ and $\angle B A C=65^{\circ}$. From points B and C two tangents are drawn which intersect at point P . What is the measure of $\angle B P C$ ?
Ans
X $1.52 .5^{\circ}$

- 2. $50^{\circ}$
$\times 3.55^{\circ}$
$\times 4.32 .5^{\circ}$
Q. 15 If $\operatorname{cosec} A=10$, then what is the value of $20 \sin A+9 \sqrt{11} \sec A$ ?

Given that A is an acute angle.
Ans
$\times 1.23$
$\times 2.34$

- 3. 32
$\times 4.30$
Q. 16 The daily wages of $P, Q$ and $R$ are in the proportion $5: 7: 8$. If $Q$ earns $₹ 560$ per day, then what are the daily wages (in ₹) of $R$ and $P$, respectively?
Ans $\times 1.400$ and 640
$\times 2.350$ and 590
- 3. 640 and 400

X4. 590 and 350
Q. 17 The area of an equilateral triangle is $10.24 \sqrt{3} \mathrm{~m}^{2}$. Its perimeter (in m ) is:

Ans $\quad X 13.2$
$\times 2.9 .6$
$\times 3.6 .4$

- 4.19 .2
Q. 18 The square of the diagonal of a cube is $2175 \mathrm{~cm}^{2}$. What is the total surface area (in $\mathrm{cm}^{2}$ ) of the cube?

Ans
X 1.4305
X 2.4272
$\times 3.4530$
4. 4350
Q. 19 A shopkeeper bought 95 dozen oranges at $₹ 4.50$ each. 7 dozen oranges were rotten and so were discarded. He sold the remaining oranges at $₹ 78$ per dozen. What is his profit or loss per cent (to the nearest integer)?

Ans
X 1. Profit, $45 \%$

- 2. Profit, $34 \%$

X 3. Loss, 34\%
X 4. Loss, $45 \%$
Q. 20 The average age of 7 members of a family is 35 years. If the youngest members are twins and they are 15 years old, then what was the average age (in years) of the family members at the time of the birth of the twins?

Ans
-1. 28
X 2. 27
$\times 3.30$
$\times 4.25$
Q. 21 If $(7 \mathrm{x}-10 \mathrm{y})=8$ and $\mathrm{xy}=5$, then what is the value of $49 x^{2}+100 y^{2}$ ?

Ans
-1. 764
$\times 2.632$
$\times 3.623$
$\times 4.746$
Q. 22 A and B can complete a piece of work in 27 days and 54 days, respectively. They completed the work in 9 days with the help of C. How many days will C take to complete eight-ninths of the work alone?
Ans
-1. 16
$\times 24$
X 3.30
X4. 45
Q. 23 A's salary is $15 \%$ less than B's salary. B's salary is $30 \%$ less than C's salary. By how much percent approximately, is C's salary more than A's salary?

Ans
-1. 68
$\times 2.45$
X 3. 75
$\times 4.40$
Q. 24 The line graph shows the production (in tonnes) and the sales (in tonnes) of a company.

What is the ratio of the production of the company in 2015 and 2016 taken together to the sales in 2017 and 2019 taken together?


Ans
X 1. $195: 214$
X 2. $307: 330$
X 3. $307: 229$

- 4. $307: 254$
Q. 25 A train, 500 m long, passes a railway platform 400 m long, in one minute with uniform speed. What is the time (in seconds) taken by the train to pass a man riding a motorbike, travelling opposite to the direction of the train, at a speed of $18 \mathrm{~km} / \mathrm{h}$ ?
Ans
X1. 30
$\times 2.48$
$\times 3.54$

4. 25
Q. 1 ___ contains and manages all the programs and applications that a computer or other device is able to run.
Ans
5. Operating system
< 3. Computer hardware
6. Computer software
Q. 2 'उगादी' निम्नलिखित में से किस राज्य का प्रसिद्ध त्योहार है?

Ans

1. पंजाब
2. आंध्र प्रदेश

Х 3. उत्तर प्रदेश
(4. गोवा
Q. 3 As on 9 December 2020, how many states of India have implemented 'one nation one ration card system'?
Ans


- 2.9
< 3.5
< 4.7
Q. 4 In which of the following countries is the headquarters of International Table Tennis Federation situated?

Ans

* 1. Japan

2 2. Thailand
X 3. England
4. Switzerland
Q. 5 रेयान कपड़ा बनाने के लिए निम्न में से किस फाइबर का उपयोग किया जाता है?

Ans 1. गम (Gum)
2. सेलूलोज (Cellulose)
3. पेक्टिन (Pectin)
4. म्यूसिलेज (Mucilage)
Q. 6 A ____ is a hydraulic structure of impervious material built across a river to create a reservoir on its upstream side for impounding water for various purposes.
Ans
Х 1. block

- 2. dam
< 3 . fold
(4.drainage
Q. 7 What was the contribution of the manufacturing sector in India's GDP in Q2 of 2020-21?

Ans
Х 1. Positive growth of $3.4 \%$

- 2. Positive growth of $0.6 \%$
- 3. Negative growth of $7.5 \%$
(4. Negative growth of $8.6 \%$


## Q. 8 निम्न में से महाकाव्य कहानी 'मनुचरित्र' के लेखक कौन है?

Ans

1. बाणभट्ट

X 2. पोन्ना
3. चंदबरदाई
4. अल्लासानी पेद्दना
Q. 9 वर्ष 2020 में, $\qquad$ ग्रामीण परिवारों में $100 \%$ पाइप युक्त नल जल उपलब्ध कराने वाला पहला राज्य बन गया।

Ans
(1. मिजोरम
2. केरल
3. सिक्किम
-4. गोवा
Q. 10 What is the keyboard shortcut to add a new row above a given row in Microsoft Excel?

Ans

- 1 . $A l t+I+R$

X2. Alt $+\mathrm{C}+1$
X 3. Shift + Spacebar
(4. Shift+I+R
Q. 11 निम्नलिखित में से किसने 1990 में धोलावीरा में खुदाई शुरू की थी?

Ans 1. एस.आर. राव
2. आर.एस. बिष्ट
3. आर.डी. बनर्जी
4. एम.एस. वत्स
Q. 12 The minimum paid up equity capital to set up a small finance bank should be of $\qquad$ as proposed by RBI as of May 2020.
Ans
X 1.100 crores
X 2.300 crores

- 3.200 crores
<4. 75 crores
Q. 13 Who among the following was elected as the President of the All India Chess Federation in January 2021?
Ans
3

2. Bhagat Singh Chauhan3. Sunil Arora
3. Sanjay Kapoor
Q. 14 Which of the following institutes bagged the UNESCO Asia-Pacific Award for cultural heritage conservation in December, 2020?

Ans
(1. IIT Roorkee
(2. IIT Delhi

- 3. Amar Singh College Srinagar
(4. BBK DAV. College Amritsar
Q. 15 $\qquad$ नियमों और सिद्धांतों का एक समुच्च्य पेश करने में मदद करता है, जिस पर देश के सभी लोग उस तरीके के आधार के रूप में सहमत हो सकते हैं जिसमें वे चाहते हैं कि देश को शासित किया जाए।

Ans
-1. संविधान
2. प्रस्तावना
3. डाक्यूमेंट

र4. मसौदा
Q. 16 Who among the following was conferred the title of 'Global Visionary of Sustainable Business and Peace' in 2020 by the Federation of Israel Chambers of Commerce for epitomising 'unity, peace and sustainability'?
Ans

1. Lakshmi Mittal
2. Mukesh Ambani
3. Ratan Tata
4. Azim Premji
Q. 17 Sur Sarovar, also known as Keetham Lake, is a man-made reservoir. In which of the following years was it added in the list of Ramsar Sites?
Ans


- 2.2020

Х 3.2015
Х4.1998
Q. 18 लोकनाट्य 'भांडपाथेर (Bhand Pather)' निम्न में से किस राज्य की नृत्य शैली है?

Ans

1. गोवा
2. कश्मीर
3. हरियाणा
4. सिक्किम
Q. 19 CSIR as an autonomous body is the largest research and development organisation in India. What does CSIR stands for?
Ans
5. Council of Scientific and Industrial Research
6. Council of Space and Industrial Research
7. Centre of Space and Industrial Research
8. Chamber of States and Industrial Research
Q. 20 Which doctor of Indian origin was honoured with 'Great Immigrants-2020' in the US?

Ans

1. Ashok Rajgopal

X 2. Mayur Lakhani
3. Siddhartha Mukherjee
4. Kiran C Patel
Q. 21 भारत के किस राज्य में फसली भूमि (crop land) का सर्वाधिक प्रतिशत सिंचाई के अधीन है?

Ans

1. तमिलनाडु
2. गुजरात
3. पंजाब
4. कर्नाटक
Q. 22 भारतीय संविधान के किस अनुच्छेद के अनुसार, कोई व्यक्ति संसद की किसी सीट को भरने के लिए चुने जाने के लिए तब तक अर्हित नहीं होगा, जब तक कि वह भारत का नागरिक न हो?

Ans
Х 1. अनुच्छेद 76

- 2. अनुच्छेद 84

3. अनुच्छेद 61
4. अनुच्छेद 52
Q. 23 Which of the following banks was declared as the 'Safest Bank in Asia' for the 12th consecutive year by New York-based trade publication 'Global Finance' in 2020?

Ans

- 1. DBS

Х 2 . ICBC
Х 3 .ІсІСı
X4. HSBC
Q. 24 To which group of organic molecules does 'Monosaccharides' belong?

Ans
X 1 . Lipids
Х 2 . Nucleic acids

- 3. Carbohydrates

X4. Proteins
Q. 25 Who among the following won the 2002 International Shooting Sport Federation (ISSF) Champion of Champions combined-air-rifle event to become the first Indian to win that competition?

Ans

- 1. Anjali Bhagwat

X 2. Manu Bhaker
X 3. Rahi Sarnobat
(4. Anisa Sayyed

## Combined Higher Secondary Level Examination 2020 (Tier-I)

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 12/08/2021 |
| Exam Time | 3:00 PM - 4:00 PM |
| Subject | Combined Higher Secondary Level Exam 2020 |

## Section : English Language

Q. 1 Select the most appropriate ANTONYM of the given word.

Traditional
Ans
1 1. Earthly
2. Customary
3. Modern
4. Conventional
Q. 2 Select the option which means the same as the group of words given.

A hunting weapon which comes back, used by Australian Aborigines
Ans
入1. harpoon
2. cutlass
3. slingshot
4. boomerang
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

It would be / more better if / she sang / with an orchestra.
Ans

- 1. more better if

⒉ she sang
3 3. with an orchestra
4. It would be
Q. 4 Select the option that expresses the given sentence in reported speech.
"Our teacher returned from Mumbai last month", she said.
Ans

1. She said that her teacher had returned from Mumbai the earlier month.

Х 2. Her teacher returned from Mumbai last month, she said.
$\checkmark 3$
3. She said that their teacher had returned from Mumbai the previous month.

X4. She said that her teacher had returned from Mumbai the previous month.

## Q. 5 Select the correct passive form of the given sentence.

In the evening we water the plants.
Ans

1. The plants will be watered in the evening.
v 2. The plants are watered in the evening.
X 3. The plants have been watered in the evening.
2. The plants were watered in the evening.
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

Causing a strong dislike
Ans
(1. Redundant

- 2. Repulsive

K 3. Hateful
(4. Revealing
Q. 7 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Mr. Sharma is kind as his father.
Ans

- 1. as kind as
(2. No substitution

3 3. the kindest as
\$4. kinder as
Q. 8 Select the most appropriate meaning of the given idiom.

Not one's cup of tea
Ans

1. Not absolutely true

- 2. Not according to one's interest

X 3. Beyond one's comprehension
Х 4. Of no concern for someone
Q. 9 Given below are four jumbled sentences. Out of the given options, pick the one that gives their correct order.
A. The man who had caught me was a dreadful sight.
B. Suddenly I was picked up, whirled through the air, and made to sit on a tombstone.
C. He was about forty years old, hard-faced and fierce.
D. I was only a child, and small for my age.

Ans

1. CBAD
< 2. BACD

- 3. DBAC
Х4. DCBA
Q. 10 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.
A. The whole area has been designed like a garden from Alice in Wonderland.
B. It's about having fun and learning, too; all the activities help to explain the modern world of technology to the young visitors.
C. But 'The World of Children' isn't just about playing games and having joy rides.
D. There are several different attractions in this vast area and there is a lot to see and do.

Ans

- 1. DACB

X2. BCDA
X 3. CBDA
>4.ADBC
Q. 11 Select the INCORRECTLY spelt word.

Ans
$>1$ 1. rogue
(2. rocket

- 3. rockiry
< 4. roaster
Q. 12 Select the most appropriate option to fill in the blank.

Scientists all over the world are engaged in $\qquad$ how to find a vaccine for COVID-19.
Ans
< 1. researching
<
2. scrutinizing3. investigating
(4. inspecting
Q. 13 Select the most appropriate synonym of the given word.

REPULSIVE
Ans
< 1. respectable

- 2. disgusting
< 3. attractive
(4. agreeable
Q. 14 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

He won't come to the party unless you will invite him personally.
Ans
< 1. would invite

- 2. invite

X 3. No substitution required
<4. invited
Q. 15 Select the most appropriate meaning of the idiomatic expression given.

To cross one's mind
Ans

1. To forget something

Х 2. To put a thought away from one's mind
X 3. To move from one idea to another
4. To think of something
Q. 16 Select the most appropriate word to fill in the blank.

The marking of answer papers is $\qquad$ out by the course teacher.

Ans
> 1.done2. carried

X 3. checked
X 4. crossed
Q. 17 Select the most appropriate ANTONYM of the given word.

BUOYANT
Ans

1. enthusiastic
2. lively

- 3. weighted

X 4. bouncy
Q. 18 Select the INCORRECTLY spelt word.

Ans
< 1. Terrible
2. Uprooted
X 3. Haunted

- 4. Tendansy
Q. 19 In the given sentence, identify the segment which contains the grammatical error.

Cyclone Amphan roared into West Bengal on Wednesday leave behind a trail of devastation across a large area of the State.
Ans

1. leave behind

X 2. a trail of devastation
3. roared into West Bengal
4. across a large area
Q. 20 Select the most appropriate synonym of the given word.

Ban
Ans
X 1. Ascertain
2. Prohibit

X 3. Abandon
(4. Band

Comprehension:
In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Every Monday, on his way back from work, Bepin Chaudhury would drop in at KaliCharan's in New Market (1) $\qquad$ books. Crime stories, ghost stories, and thrillers. (2) $\qquad$ had to buy at least five at a time to last him (3) $\qquad$ the week. He lived alone, was not a good mixer, had few (4) $\qquad$ and didn't like spending time in idle chat. Today, at KaliCharan's, Bepin Babu had a (5) $\qquad$ that somebody was observing him from close quarters.

SubQuestion No: 21
Q. 21 Select the most appropriate option for blank no. 1.

Ans
1 1. buying
2 2.bought

- 3

3. to buy4. buy

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Every Monday, on his way back from work, Bepin Chaudhury would drop in at KaliCharan's in New Market (1) $\qquad$ books. Crime stories, ghost stories, and thrillers. (2) $\qquad$ had to buy at least five at a time to last him (3) $\qquad$ the week. He lived alone, was not a good mixer, had few (4) $\qquad$ and didn't like spending time in idle chat. Today, at KaliCharan's, Bepin Babu
had a (5) $\qquad$ that somebody was observing him from close quarters.

SubQuestion No : 22
Q. 22 Select the most appropriate option for blank no. 2.

Ans
1 1 . They

- 2. He

X3. Him
<4. She

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Every Monday, on his way back from work, Bepin Chaudhury would drop in at KaliCharan's in New Market (1) $\qquad$ books. Crime stories, ghost stories, and thrillers. (2) $\qquad$ had to buy at least five at a time to last him (3) $\qquad$ the week. He lived alone, was not a good mixer, had few (4) $\qquad$ and didn't like spending time in idle chat. Today, at KaliCharan's, Bepin Babu
had a (5) $\qquad$ that somebody was observing him from close quarters.

SubQuestion No : 23
Q. 23 Select the most appropriate option for blank no. 3 .

Ans
\$1. within
2. through

X 3.across
>4.by

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Every Monday, on his way back from work, Bepin Chaudhury would drop in at KaliCharan's in New Market (1) $\qquad$ books. Crime stories, ghost stories, and thrillers. (2) $\qquad$ had to buy at least five at a time to last him (3) $\qquad$ the week. He lived alone, was not a good mixer, had few (4) $\qquad$ and didn't like spending time in idle chat. Today, at KaliCharan's, Bepin Babu
had a (5) $\qquad$ that somebody was observing him from close quarters.

SubQuestion No: 24
Q. 24 Select the most appropriate option for blank no. 4.

Ans

- 1 . friends

2. students

X 3. servants
X4.followers

## Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Every Monday, on his way back from work, Bepin Chaudhury would drop in at KaliCharan's in New Market (1) $\qquad$ books. Crime stories, ghost stories, and thrillers. (2) $\qquad$ had to buy at least five at a time to last him (3) $\qquad$ the week. He lived alone, was not a good mixer, had few (4) $\qquad$ and didn't like spending time in idle chat. Today, at KaliCharan's, Bepin Babu
had a (5) $\qquad$ that somebody was observing him from close quarters.

SubQuestion No : 25
Q. 25 Select the most appropriate option for blank no. 5 .

Ans
Х 1. intuition
X 2. connotation

- 3. feeling

4 4. perception
Q. 1 Select the set of classes the relationship among which is best illustrated by the following Venn diagram.


Ans
X 1. Owls, Mammals, Reptiles
$X$ 2. Stationery, Pens, Pencils

- 3. Doctors, Fathers, Brothers

X 4. Mothers, Engineers, Women
Q. 2 Select the option in which the numbers are related in the same way as are the numbers of the following set.
$(2,3,62)$
Ans
> ${ }_{1 .}(8,5,225)$
v 2. $(7,4,226)$
< ${ }_{3}(5,9,288)$
>4. $(6,4,122)$
Q. 3 A cube is made by folding the given sheet. In the cube so formed, what would be the letter on the opposite side of ' $K$ '?

Ans
Q. 4 Select the option in which the numbers in the set share the same relationship as that shared by the numbers of the given set.
$(14,18,42)$
Ans

1. $(16,21,56)$
Х $2 .(22,18,74)$
X 3. $(20,15,100)$
< $4 .(40,23,94)$
Q. 5 Select the correct combination of mathematical signs to sequentially replace the * signs to balance the following equation.

40 * 15 * 3 * 72 * $9=77$
Ans
Х1. $\times, \div+,-,=$
2.,$+ \div,-, x=$

- 3. $+, x,-, \div,=$

Х4.,$+ \times, \div,-,=$
Q. 6 Three of the following four words are alike in a certain way and one is different. Select the odd one.
Ans
Х 1. Heart
X 2 . Lungs

- 3. Nose
(4. Liver
Q. 7 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Industry
2. Indent
3. Indoor
4. Indolent
5. Index

Ans
X 1.2,1,3,5,4

- $2.2,5,4,3,1$
>3.2,4,5,3,1
人4.1,2,3,5,4
Q. 8 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

Ans
ck_gkc_t_k_ktg_ck_gk

- $1, \mathrm{t}, \mathrm{k}, \mathrm{g}, \mathrm{c}, \mathrm{k}, \mathrm{t}$

Х 2.t, k, g, c, c, t
(3.t,g,k, c, k, t
(4.t,k, c, g, k, t
Q. 9 Select the correct mirror image of the given figure when a mirror is placed on the right side of the figure.


Ans

Q. 10 Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.

127: 11 :: ? : 16 :: 367 : 19
Ans
Х 1.280
X2. 216

- 3.262

X4.248
Q. 11 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 12 Select the number that can replace the question mark (?) in the following series.
$25,26,53,160,641, ?$
Ans
> 1.3403
>2. 3202
X 3.2908
4. 3206
Q. 13 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. HNTZ
X 2.AGMS

- 3. IPVA
\$4. VBHN
Q. 14 Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

AZW : GFC : : LSM : ?
Ans
<1. RXY
X 2. QOS3. RYS

入 4. DMT
Q. 15 How many triangles are there in the given figure?


Ans
-1. 15
$\times 2.17$
X 3.16
X 4.14
Q. 16 A piece of paper is folded and cut as shown below in the question figures. Select from the option figures, how it will appear when unfolded.


Ans

Q. 17 In a certain code language, 'FROZEN' is coded as '504' and 'TONSILS' is coded as '756'. How will 'MARINE' be coded in that language?
Ans

- 1.360

X 2.652
X 3.520
>4.456
Q. 18 In a code language, TOUCH is written as UTOHC. How will PLANT be written in that language?
Ans
< 2. TPANM
< 3. ALRPT

- 4. TPNLA
Q. 19 Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
No field is a house.
All fields are parks.
Conclusions:
I. No house is a field.
II. Some parks are fields.
III. Some houses are fields.

Ans
(1. Only conclusion II follows
2. All the conclusions follow
< 3. Only conclusions II and III follow

- 4. Only conclusions I and II follow
Q. 20 Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

Ans
> 1.7:63
Х2.5:35
< $3.13: 195$
4. $19: 324$
Q. 21 In a class of 68 students, 34 students participated only in Debate and 8 students participated in both Quiz and Debate. If every student of the class has participated in at least one of these two competitions, how many students participated in Quiz?

Ans
> 1.26
$\checkmark$
2. 34
$\times 3.30$4. 22
Q. 22 If ' $A$ \& $B$ ' means ' $A$ is the father of $B$ ' and ' $A$ @ $B$ ' means ' $A$ is the sister of $B$ ', then which of the following expressions means ' H is the father of $\mathrm{M}^{\prime}$ ?
Ans
X1.K\&H@P@M
X2.M\&K@P@H
-3.H\&K@P@M
X4. H @ K @ P\&M
Q. 23 Select the option in which the words share the same relationship as that shared by the given pair of words.

Astronomy : Stars
Ans

1. Seismology : Theatre
2. Psychology : Cells
3. Numismatics: Coins
4. Philology : Texture
Q. 24 'East' is related to 'Direction' in the same way as 'Summer' is related to $\qquad$ $\therefore$.
Ans
5. Room Cooler

X
3. Heat4. Temperature
Q. 25 Select the option figure which contains figure X embedded in it as its part (rotation is NOT allowed).


Figure $\mathbf{X}$
Ans

Q. $124 \%$ of Reena's salary is equal to $38 \%$ of Sunita's salary. Veena's salary is two-third of the total salary of Reena and Sunita. If Veena's salary is $₹ 62,000$, then Sunita's salary is:
Ans
X 1. ₹ 35,000
X 2. ₹ 32,000
X 3. ₹ 38,000

- 4. ₹ 36,000
Q. 2

Study the given bar graphs and answer the question that follows.
The bar graphs represent the amount invested in raw materials (in ₹ crore) and the sale of the products, by a textile company in the years 2007-2012. The X-axis represents the years. The Y-axis represents the amount invested in raw materials (in ₹ crore) in figure 1 and sale of products in figure 2, respectively.


Figure 1


Figure 2
In which year was there a maximum percentage increase in the sales of products as compared to the previous year?

Ans
X 1. 2008
X 2. 2010

- 3. 2009

X4. 2011
Q. 3 A man invests an amount of $₹ 1,05,750$ at simple interest in the name of his son, daughter and his wife in such a way that they get the same interest after 3,4 and 5 years, respectively. If the rate of interest is $5 \%$ per annum, then the amount invested for the wife is:

Ans
-1. ₹ 27,000
X2. ₹ 28,000
X 3. ₹ 25,000
X4. ₹ 30,000
Q. 4 If a triangle $A B C$ is right-angled at $A$, then what is the value of $\sin \frac{B+C}{2} \cos \frac{B+C}{2}$ ?

Ans
X1. $\frac{\sqrt{3}}{4}$
X2. $\sqrt{2}$
×3. $\frac{1}{4}$

- $4 . \frac{1}{2}$
Q. 5 The sum of all the three sides of an equilateral triangle is $15 \sqrt{3} \mathrm{~cm}$. The height of the triangle is:

Ans
X 1.7 cm
X2. 8 cm

- 3. 7.5 cm

X 4.9 cm
Q. 6 Anu can complete a piece of work in 22 days. Shama is $60 \%$ more efficient than Anu. How many days does Shama
alone take to complete the same piece of work?
Ans
$\times 1.36 \frac{2}{3}$
X2. $35 \frac{1}{3}$
X $3.13 \frac{1}{5}$

- $4.13 \frac{3}{4}$
Q. 7 Study the given bar graph and answer the question that follows.

A tea plantation company produces three varieties of tea-black tea, green tea and herbal tea. The production of three varieties (in million tonnes) over a period of six years from 2014 to 2019, has been shown in the bar graph here.
The X -axis represents the years and the Y -axis displays the production of the three varieties in million tonnes.


The average production of black tea in 2014, 2015 and 2018 is how much more or less (in million tonnes) than the average production of green tea in 2016, 2017 and 2019?

Ans
X 1. More, 12.33
X 2. Less, 12.33

- 3. Less, 13.33

X 4. More, 13.33
Q. 8 Two numbers $A$ and $B$ are in the ratio $13: 17$. If $A$ is increased by $15 \%$ and $B$ is increased by $30 \%$, then the new ratio of A to B will be:
Ans
X 1. $21: 29$
X2. $21: 31$

- 3. $23: 34$

X4. $23: 33$
Q. 9 In $\triangle A B C, A C=B C$, and the length of the base $A B$ is 10 cm . If $C G=8 \mathrm{~cm}$, where $G$ is the centroid, then what is the length of $A C$ ?
Ans

- 1.13 cm
$\times 2.15 \mathrm{~cm}$
$\times 3 . \sqrt{91} \mathrm{~cm}$
$\times 4.12 \mathrm{~cm}$
Q. 10 A, B, C and D are four positive numbers such that $A$ is $\frac{3}{4}$ times of $B, B$ is $\frac{4}{5}$ times of $C$, and $C$ is $\frac{3}{8}$ times of $D$. If the average of 4 times of $A$ and 7 times of $D$ is 316 , then the average of all the four numbers $A, B, C$ and $D$ is:

Ans
X1. 36

- 2. 38
<3. 28
X4. 34
Q. 11 A car takes 50 minutes to cover a certain distance at a speed of $54 \mathrm{~km} / \mathrm{h}$. If the speed is increased by $25 \%$, then how long will it take to cover three-fourth of the same distance?

Ans
X 1.35 minutes
$\times$ 2. 40 minutes

- 3. 30 minutes
$\times 4.25$ minutes
Q. 12 The given pie charts represent the distribution of candidates who enrolled for a bank clerical examination and the candidates (out of those enrolled) who passed the examination, from five different institutes $P, Q, R, S$ and $T$. Study the pie charts and answer the question that follows.
(i) Total number of candidates who enrolled for the examination from five institutes $=5500$


Fig. (i)
(ii) Total number of candidates who passed the examination from five institutes $=$ 3300


Which institute(s) has/have the highest percentage of candidates passed to the candidates enrolled?

Ans
X1. P
X 2. S
X 3. Q and $T$

- 4 R
Q. 13 A rectangle with perimeter 50 cm has its sides in the ratio $1: 4$. What is the perimeter of a square whose area is the same as that of the rectangle?
Ans
X 1.36 cm
$\times 2.50 \mathrm{~cm}$
- 3. 40 cm

X 4.45 cm
Q. 14 If $x^{2}+\frac{1}{x^{2}}=83, x>0$, then the value of $x^{3}-\frac{1}{x^{3}}$ is:

Ans
-1. 756
$\times 2.675$
$\times 3.576$
$\times 4.746$
Q. 15 Two equal circles of radius 8 cm intersect each other such that each passes through the centre of the other. The length of the common chord is:
Ans $\quad$ 1. 8 cm
人2. $4 \sqrt{3} \mathrm{~cm}$
-3. $8 \sqrt{3} \mathrm{~cm}$
X4. $8 \sqrt{2} \mathrm{~cm}$
Q. 16 If $\tan A+\sec A=\frac{3}{2}$ and $A$ is an acute angle, then the value of $\frac{10 \cot A+13 \cos A}{12 \tan A+5 \operatorname{cosec} A}$ is:

Ans
X1. 5
> ${ }^{2} 1$
X3.4

- 4. 2
Q. 17 Two circles with centres $O$ and $P$ and radii 17 cm and 10 cm , respectively, intersect each other at $A$ and $B$. The length of the common chord AB is 16 cm . What is the perimeter of the triangle $\mathrm{OAP}($ in cm$)$ ?
Ans
X 1.33
X2. 25
- 3.48
$\times 4.40$
Q. 18 If $x+\frac{1}{x}=\sqrt{13}$, then one of the values of $x^{3}-\frac{1}{x^{3}}$ is :

Ans
$\times 1.4 \sqrt{11}$
$\times 2.32$
$\times$ 3. $4 \sqrt{13}$

- 4. 36
Q. 19 The number of students enrolled in different streams at Senior Secondary level in five schools is shown in the given bar graph.


What is the total number of students enrolled in the Science stream in all the schools?
Ans
X 1.267
X 2. 268

- 3. 263
$\times 4.257$
Q. 20 If the nine-digit number ' 8475639 AB ' is divisible by 99 , then what is the value of A and B ?

Ans
X1. $A=4, B=6$
X2. $\mathrm{A}=5, \mathrm{~B}=3$
X 3. $\mathrm{A}=3, \mathrm{~B}=9$

- 4. $\mathrm{A}=4, \mathrm{~B}=8$
Q. 21 If $\sec \theta-\operatorname{cosec} \theta=0$ and $\theta$ is an acute angle, then what is the value of $\sec ^{2} \theta+\operatorname{cosec}^{2} \theta$ ?

Ans
-1. 4
$\times 2.1$
$\times 3.2$
$\times 4.0$
Q. 22 What will be the selling price of an article if two successive discounts of $15 \%$ and $12 \%$ are offered on its marked price of $₹ 25,500$ ?
Ans

- 1. ₹ 19,074

X2. ₹ 25,041
X 3. ₹ 21,165
X4. ₹ 18,615
Q. 23 A shopkeeper sold an article for $₹ 3,750$. If he had charged $24 \%$ less, even then he would have earned a profit of $14 \%$. What is the original cost of the article?
Ans
X 1. ₹ 2,850
X 2. ₹ 2,717
X 3. ₹ 3,289

- 4 . 2,500
Q. 24 If $x^{2}+(4-\sqrt{3}) x-1=0$, then what is the value of $x^{2}+\frac{1}{x^{2}}$ ?

Ans
X1. $9-8 \sqrt{3}$
X2. $21-12 \sqrt{3}$
3. $21-8 \sqrt{3}$

X4. $17-8 \sqrt{3}$
Q. 25 Simplify the following expression.
$5 \frac{1}{3} \div\left[7-3 \div\left(1-\frac{1}{4}\right) \times \frac{2}{3}+1\right]-3 \div 1+2$
Ans
X1. $\frac{7}{41}$

- 2. 0
$\times 3.15$
X4. -4

Section : General Awareness

## Q. 1 National Rifle Association of India was founded in:

Ans
Х2. 1964

- 3.1951

Х 4.1948

## Q. 2 Which of the following factors is NOT responsible for soil formation?

Ans
2. Cattle grazing
3. Parent material
<4. Biotic agents
Q. 3 Who among the following was NOT included in the ICC Hall of Fame in August 2020?

Ans

- 1. Graeme Smith

Х 2. Jacques Kallis
X 3. Zaheer Abbas
4. Lisa Sthalekar
Q. 4 Which of the following Articles of the Constitution of India is related to the oath or affirmation by the President?
Ans
< 1. Article 57

- 2. Article 60
< 3. Article 66
< 4. Article 54
Q. 5 Rickets and night-blindness are caused by the deficiency of $\qquad$ and $\qquad$ respectively.
Ans 1. Vitamin D, Vitamin A

2. Vitamin D, Vitamin C
>
3. Vitamin B1, Vitamin C
<
4. Vitamin E, Vitamin A
Q. 6 Who among the following foreign travellers is NOT correctly matched with their respective country they hail from?

Ans
Х 1. Marco Polo - Italy2. Peter Mundy - China3. Ibn Battuta - Morocco
( 4. Al-Biruni - Uzbekistan
Q. 7 With which of the following states is the 'Mand' or 'Maand' style of singing associated?

Ans

- 1. Rajasthan

X 2. Gujarat
( 3. Madhya Pradesh
X 4. Uttar Pradesh
Q. 8 With which country did India hold its 14th Defence Policy Dialogue via video conferencing in August 2020?
Ans

< 2. Japan

- 3. Singapore
<4. China
Q. 9 Which of the following statements is NOT correct about alluvial soil?

Ans $\begin{aligned} & \text { 1. Deltas of Mahanadi, the Godavari and the Krishna are made from alluvial soil. }\end{aligned}$
2. Old alluvial is called 'bangar' and new alluvial is called 'khadar'.
3. In the Himalayan region we find alluvial soil.
4. Northern plains are made of alluvial soil.
Q. 10 As of January 2021, GMR Group was associated with which of the following franchises in the Indian Premier League (IPL) cricket tournament?
Ans

- 1. Delhi Capitals

2. Mumbai Indians
3. Chennai Super Kings

X 4. Rajasthan Royals
Q. 11 According to the fundamental rights provided by the Constitution of India, the state is bound to provide free and compulsory education to all children from the age of:
Ans
X 1.4 to 15 years

- 2.6 to 14 years

X 3.4 to 18 years
X4.3 to 18 years
Q. 12 Swollen bluish veins resulting from the valves that do not close properly are called $\qquad$ _.

Ans
Х 1. systemic veins
$\checkmark$
2. varicose veins
< 3. deep veins
$\$$
4. superficial veins
Q. 13 Dogri language is mainly spoken in which of the following states/union territories?

Ans
(1. Uttarakhand

- 2. Jammu and Kashmir
( 3. Lakshadweep
<4. Assam
Q. 14 Which of the following states was popularly known as the 'Land of Gods'? It got a separate identity as a state on 9 November 2000.
Ans
(1. Telangana
\$2. Goa
* 3. Karnataka
- 4. Uttarakhand
Q. 15 'Pradhan Mantri Awas Yojana (Urban)-PMAY (U)'s mission is to achieve the goal of Housing for All in urban areas by:
Ans
X 1.2020
<2. 20233. 2022
< 4.2021
Q. 16 Which of the following is NOT an example of an optical disk?

Ans
§ 1. Blue Ray Disk
$\checkmark$
2. PROM
< 3. CD ROM
(4. DVD
Q. 17 A device or program that enables a computer to transmit data over telephone or cable lines is called:
Ans
X 1. motherboard

- 2. modem
<3. monitor
\$4. mouse
Q. 18 Where was the Patrika Gate inaugurated by Prime Minister Narendra Modi in September 2020?

Ans

- 1. Jaipur
(2. Ranchi
( 3. Raipur
(4. Bhopal
Q. 19 Who among the following was honoured with the long-overdue record title for 'fastest human computation' by Guinness World Records on 30 July 2020?

Ans

- 1. Shakuntala Devi

2. Vashishtha Narayan Singh
3. Vijay Kumar Patodi
(4. Shreeram Shankar Abhyankar
Q. 20 The mutual funds industry in India is regulated by which of the following organisations?

Ans
Х 1. IRDA and IFCI

- 2. SEBI and RB

X 3. NITI Aayog and IIFCL
4. Ministry of Commerce and SIDBI
Q. 21 Who among the following was responsible for the partition of Bengal in 1905?

Ans
1 1. Lord Mayo
2. Lord Canning

Х 3. Lord Ripon
4. Lord Curzon

## Q. 22 Where is the Sariska Tiger Reserve located?

Ans

- 1. Rajasthan

2. Haryana

X 3. Gujarat
4. Karnataka
Q. 23 In September 2020, who was appointed as Executive Director of Asian Development Bank, Manila?
Ans
Х 1. Warotai Kosolpisitkul
Х 2. Jason Chung

- 3. Sameer Khare

4. Rajesh Khullar
Q. 24 Which of the following gases is released in the process of photosynthesis?

Ans

1. Nitrous dioxide
< 2. Carbon dioxide

- 3. Oxygen
\$4. Nitrogen
Q. 25 The total liability of the monetary authority of the country, Reserve Bank of India, is called:

Ans
X 1. Hot money
X 2. Grey money
X 3. Cold cash
v 4. High powered money

