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

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $11 / 08 / 2021$ |
| Exam Time | 9:00 AM - 10:00 AM |
| Subject | Combined Higher Secondary Level Exam 2020 |

## Section : English Language

Q. 1 Given below are four jumbled sentences. Out of the given options, select the one that gives their correct order.
A. He told his friends that his difficulties were a sign of God's confidence in him.
B. A businessman remained cheerful even though he suffered one catastrophe after another.
C. Therefore, when he was serving in the armed forces too, his senior officer had chosen him for dangerous missions because he knew he could be trusted.
D. First, his son had a serious accident and then he had huge losses in his business, but he was not perturbed.
Ans
Х1. BACD
X 2 . BCDA

- 3. BDAC
>4. BCAD
Q. 2 Select the INCORRECTLY spelt word.

Ans
\$ 1. allowance
< 2. existence

- 3. acceptence
(4.forbearance
Q. 3 Select the most appropriate synonym of the given word.

Travail
Ans
X 1. Journey
X 2 . Excursion

- 3. Agony

4 4. Adventure
Q. 4 Select the most appropriate word to fill in the blank.

Doctors and nurses who are treating COVID-19 patients are finding it difficult $\qquad$ long working hours.
Ans

1. for manage with

- 2. to cope with3. to service for

4. to carry on
Q. 5 Select the correct indirect form of the given sentence.

Sarita said to me, "I'm glad I did not leave my village."
Ans

1. Sarita told me she was glad she was not leaving her village.
2. Sarita told me she is glad she had not left her village.
3. Sarita told mel am glad she had not left her village.

- 4. Sarita told me she was glad she had not left her village.
Q. 6 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. In other words, chess and basketball are contests.
B. As games, chess and basketball are obviously different from leapfrog and playing house.
C. One can win a game of basketball, but it makes no sense to ask who has won a game of leapfrog.
D. The first two games are competitive, the second two are not.

Ans

1. BCAD
Х 2 . DCBA

- 3. BDCA
Х4. ACDB
Q. 7 Select the most appropriate synonym of the given word.

CORDIAL
Ans

1. friendly

Х 2. capable
X 3 unwilling
X4. hostile
Q. 8 Select the most appropriate word to fill in the blank.

Everything in the village was grown organically as the majority of the population indulged in farming for $\qquad$ -.

Ans

- 1. sustenance

Х 2. maintenance
3 3. nourishment
4 4. nutrition
Q. 9 Select the most appropriate meaning of the given idiom.

Off and on
Ans

1. again and again

X 2. every day

- 3. sometimes but not regularly

X4. not soon
Q. 10 Select the most appropriate meaning of the given idiom.

Hang on every word
Ans

1. Speak very slowly

- 2. Listen very carefully

3. Stop after hearing one word
4. Stammer while speaking
Q. 11 Select the most appropriate ANTONYM of the given word.

ABUNDANCE
Ans
Х 1. gaiety

- 2. scarcity

X 3. bounty

- 4. generosity
Q. 12 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

There is constant friction / between the executive members / of the Association.
Ans

1. There is constant friction
< 2. No error

- 3. between the executive members

4. of the Association
Q. 13 Select the most appropriate ANTONYM of the given word.

Exclusive
Ans
< 1. Expansive

- 2. Inclusive
< 3. Incisive
<4. Extensive
Q. 14 In the given sentence, identify the segment which contains a grammatical error.

Each players must play according to his full potential and not think only about winning.
Ans

1. only about winning

2 2. according to3. must play
4. Each players
Q. 15 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'.

If you tries to dictate your terms, I don't think we can work together.
Ans
< 1. have try
X 2. No substitution

- 3. try

《4. were tried
Q. 16 Select the INCORRECTLY spelt word.

Ans
Х 1 . Subtle
$X$
2. Doubtful
3. Desscent
(4. Knead
Q. 17 Select the option that expresses the given sentence in passive voice.

Arvind delivered the packet at the address given by Asha.
Ans $\quad$ 1. The packet had been delivered at the address given by Arvind.
2. The packet was being delivered by Arvind at the address given by Asha.

- 3. The packet was delivered by Arvind at the address given by Asha.

4. Asha delivered the packet at the address given by Arvind.
Q. 18 Select the option that can be used as a one-word substitute for the given group of words.

Certain to happen
Ans
Х 1. Ineffective

- 2. Inevitable

X 3. Unexpected
Х4. Avoidable
Q. 19 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'.

Most of us hesitate to accept our mistakes.
Ans

- 1. No substitution required

2. More of us

X 3. Much of us
4. Lots many of us
Q. 20 Select the word which means the same as the group of words given.
people existing or living at the same time
Ans
X 1. community
X 2. population
$\checkmark 3$
3. contemporaries

X 4. inhabitants

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

The short story in literature is usually concerned with a single effect conveyed in only one or (1) $\qquad$ few significant episodes or scenes. (2) The $\qquad$ encourages economy of setting,
(3) $\qquad$ narrative, and the omission of a (4) $\qquad$ plot; character is disclosed in action and a
(5) encounter but is seldom fully developed. Despite its relatively limited scope, though, a short story is often judged by its ability to provide a 'complete' or satisfying treatment of its characters and subject.

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

Ans
入2. little

- 3 .4. limited


## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

The short story in literature is usually concerned with a single effect conveyed in only one or
(1) $\qquad$ few significant episodes or scenes. (2) The $\qquad$ encourages economy of setting,
(3) $\qquad$ narrative, and the omission of a (4) $\qquad$ plot; character is disclosed in action and a
(5) encounter but is seldom fully developed. Despite its relatively limited scope, though, a short story is often judged by its ability to provide a 'complete' or satisfying treatment of its characters and subject.

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

Ans
X 1. procedure

- 2. practice

X 3 shape
<4.form

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

The short story in literature is usually concerned with a single effect conveyed in only one or (1) $\qquad$ few significant episodes or scenes. (2) The $\qquad$ encourages economy of setting,
(3) narrative, and the omission of a (4) $\qquad$ plot; character is disclosed in action and a (5) _ encounter but is seldom fully developed. Despite its relatively limited scope, though, a short story is often judged by its ability to provide a 'complete' or satisfying treatment of its characters and subject.

SubQuestion No : 23

## Q. 23 Select the most appropriate option to fill in blank no.3.

Ans

1. curt
2. concise

X 3.long4. lengthy

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

The short story in literature is usually concerned with a single effect conveyed in only one or (1) $\qquad$ few significant episodes or scenes. (2) The $\qquad$ encourages economy of setting,
(3) $\qquad$ narrative, and the omission of a (4) $\qquad$ plot; character is disclosed in action and a
(5) encounter but is seldom fully developed. Despite its relatively limited scope, though, a short story is often judged by its ability to provide a 'complete' or satisfying treatment of its characters and subject.

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

Ans
Х1.slight
< 2 . fused

- 3. complex

4. compound

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

The short story in literature is usually concerned with a single effect conveyed in only one or (1) $\qquad$ few significant episodes or scenes. (2) The $\qquad$ encourages economy of setting,
(3) narrative, and the omission of a (4) $\qquad$ plot; character is disclosed in action and a
(5) _ encounter but is seldom fully developed. Despite its relatively limited scope, though, a short story is often judged by its ability to provide a 'complete' or satisfying treatment of its characters and subject.

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

Ans

1. balanced

Х 2 . melodious
Х 3 . harmonious

- 4. dramatic


## Section : General Intelligence

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

PAINTER : AEINPRT : : GLAMOUR : ?
Ans
Х1. MALGRUO
X 2. ALGOMRU
3. AGLMORU

Х4.RUOMALG
Q. 2 Select the option that is related to the third word in the same way as the second word is related to the first word.

Outright : Complete : : Rampant : ?
Ans
(1. Growth

Х 2. Imperfect

- 3. Unchecked

X 4. Usual
Q. 3 Select the option that is related to the third number in the same way as the second number is related to the first number.

9:99:: 15 : ?
Ans
X 1.252
X2. 552

- 3.255

X4.525
Q. 4 A kid's mother's father-in-law's daughter is Rashmi, whose daughter is Pihoo. How is Pihoo related to the kid?

Ans


X 2. Sister
⒊Aunt

- 4. Cousin
Q. 5 Select the word-pair in which the two words are related in the same way as are the two words in the given word-pair.

Resistance: Ohm
Ans

1. Ampere : Current

- 2. Angle : Radians

3. Pressure : Watt
(4. Volume : Joule
Q. 6 Select the option that is embedded in the given figure (rotation is NOT allowed).


Ans

$\times 2$

$x$
4. $\square$
Q. 7 Which two digits and signs need to be interchanged so as to balance the given equation?
$\mathbf{2 6} \div \mathbf{6 - 5 4 + 2 4 \times 8 = 1 7 4}$
Ans

- 1.8 and $6 ; \times$ and $\div$
X2. 4 and 2 ; + and $\div$
X 3.6 and 4 ; - and $x$
X 4.5 and $8 ; \times$ and +
Q. 8 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
入1. Growl
- 2. Waddle

X 3. Grunt
(4. Bleat
Q. 9 Find the number of triangles in the following figure.


Ans $\times 1.21$

- 2. 22

X 3. 20
$\times 4.23$
Q. 10 In an entrance test, Tiwari scored 25\% marks and failed by 64 marks. If he had scored 40\% marks, then he would have secured 32 marks more than the pass marks. Find the pass marks.

Ans
X 1.295

- 2.224

X 3.150
>4.250
Q. 11 Read the below statements disregarding commonly known facts and then from the given four options, identify the Venn diagram that correctly represents the statements.

Statements:
Some Shirts are Towels.
Some Towels are Gloves.
Ans

Q. 12 Select the number from among the given options that can replace the question mark (?) in the following series.

89, 79, 71, ?, 53, 43
Ans

- 1.61
$\times 2.67$
X 3.69
X4.63
Q. 13 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 racks are books.
All racks are pens.
Conclusions:
I. All pens are books.
II. Some books are pens.

Ans
1 1. Neither conclusion I nor II follows.
Х 2. Only conclusion I follows.

- 3. Only conclusion II follows.

4 4. Both conclusions I and II follow.
Q. 14 Which option represents the correct order of the given words as they would appear in an English dictionary?

1. Pamphlet
2. Paleface
3. Painless
4. Partiality
5. Pabulums

Ans
X $1.5,3,1,2,4$
$\checkmark$
2. $5,3,2,1,4$

X $3.5,2,1,3,4$
$\chi_{4,5,2,3,1,4}$
Q. 15 Two different positions of the same dice are shown. Select the letter that will be on the face opposite to the face showing ' C '.


Ans
X1. A
X ${ }^{2} \mathrm{D}$
X 3. F
4. B
Q. 16 Three of the following number-pairs are alike in a certain way and one is different. Select the odd one.

Ans
Х1.271:15

- $2.398: 18$
Х $3.181: 12$
(4.305:16
Q. 17 Select the set in which the numbers are related in the same way as are the numbers of the following set.
$(697,13,866)$
Ans
Х 1. $(832,8,887)$

2. $(747,25,1423)$
3. $(651,16,940)$
4. $(541,14,737)$
Q. 18 The sequence of folding a piece of paper and the manner in which the folded paper has been cut are shown in the following figures. How would this paper look when unfolded?


Ans

Q. 19 In a certain code language, PROMISE is written as WXTQLUF. How will MELTING be written in that language?
Ans
< 1. TLSAPUN
Х2. SJPWKOG
<3. SKRZOTM

- 4. TKQXLPH
Q. 20 If CALENDAR is coded as 91452313 and FACEMASK is coded as 210142316, then how will SECURITY be coded as?

Ans
< 1.723593120
< 2. 729952310
X 3.723933210

- 4.723953210
Q. 21 Select the figure that can replace the question mark (?) in the following figure series.


Ans




Q. 22 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$K_{-} T Z_{-} Y_{-} M_{-} Z O_{-} K_{-} T_{-} O Y$
Ans
Х1.MOTTYNZ
Х2.MNKTYKZ
Х3.MOTYKMZ

- 4. MOKTYMZ

Q． 23 Select the correct mirror image of the given figure when the mirror is placed at the right side．
$A £ C \alpha E \beta$
Ans
$X$ 1．$\beta$ E $\alpha$ C£A

$x^{3 .}$ ØヨDOFヲ
－Аヨつロヨฏ

Q． 24 Select the option in which the numbers are related in the same way as are the numbers of the following set．

25：75：150
Ans
Х1．29：36：72
－ $2.13: 26: 104$
Х 3．36：108：324
Х 4 ．18：126：253

Q． 25 Three of the following four letter－clusters are alike in a certain way and one is different． Select the odd one．

Ans
X 1．IDWHU
X ${ }_{2}$ ．UPITG
－3．EZSFV
X4．CXQBO

## Section ：Quantitative Aptitude

Q． 1 If $x^{4}+x^{-4}=47, x>0$ ，then the value of $(2 x-3)^{2}$ is：
Ans
Х1．9
Х2． 3
－ 3.5
＜4． 7
Q. 2 The value of $\frac{\sec \theta \operatorname{cosec} \theta}{2+\tan ^{2} \theta+\cot ^{2} \theta}$ is equal to:

Ans $X 1 \cdot \sec \theta \operatorname{cosec} \theta$
X 2. $\sec \theta \sin \theta$

- 3. $\sin \theta \cos \theta$

Х 4. $\cos \theta \operatorname{cosec} \theta$
Q. 3 A 9-cm-long perpendicular is drawn from the centre of circle to a chord of length 24 cm . The radius of the circle is:

Ans
X 1.20 cm
2. 15 cm
$\times 3.12 \mathrm{~cm}$
$\times 4.18 \mathrm{~cm}$
Q. 4 If $O$ is the centroid and $R P$ is the median with length 24 cm of $\triangle R S T$, where $P$ is a point on $S T$, then the value of $R O$ is:

Ans $\quad 1.18 \mathrm{~cm}$
$\times 2.14 \mathrm{~cm}$
X 3. 20 cm

- 4. 16 cm
Q. 5 When an article is sold for $₹ 438$, there is a loss of $27 \%$. To gain $23 \%$, it should be sold for $₹ x$. What is the value of $x$ ?

Ans
X 1. ₹ 600
X 2. ₹ 837
X 3. ₹ 678

- $4 . ₹ 738$
Q. 6 How many bricks each measuring $64 \mathrm{~cm} \times 11.25 \mathrm{~cm} \times 6 \mathrm{~cm}$, will be needed to build a wall measuring $8 \mathrm{~m} \times 3 \mathrm{~m} \times 22.5$
m ?
Ans
X 1. 200000
X2. 250000
$\times 3.67500$
- 4.125000
Q. 7 Study the table and answer the question that follows:

In the given table, production of five different types of machines (A, B, C, D, E) in the years from 2016 to 2020 (in
thousands) is given.

| Machines | Years |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | 2016 | 2017 | 2018 | 2019 | 2020 |  |
| A | 46 | 53 | 56 | 58 | 67 |  |
| B | 50 | 65 | 67 | 66 | 72 |  |
| C | 43 | 54 | 55 | 47 | 51 |  |
| D | 47 | 52 | 61 | 65 | 74 |  |
| E | 48 | 58 | 63 | 64 | 67 |  |

What is the ratio of the total production of type A machines in 2018 and type E machines in 2019 to the total production of type C and type D machines in 2016?
Ans
<1.2:5
$\times 2.5: 2$

- 3. $4: 3$

X4.3:4
Q. 8 Study the given bar graph and answer the question that follows.

The bar graph indicates the production of sugar (in lakh tonnes) by three different sugar companies $\mathrm{P}, \mathrm{Q}$ and R over the years 2015 to 2019.


By what percentage is the total production of sugar by company P from the year 2015 to 2019 more than the total production of sugar by company R from the year 2015 to 2019?
Ans
X $1.18 \%$
$\times 2.18 .5 \%$

- 3. $20 \%$

X $4.15 \%$
Q. 9 If $a^{2}+b^{2}+c^{2}+48=8(a+b+c)$, then what is the value of $\sqrt[3]{a^{3}-b^{3}+c^{3}}$ ?

Ans
$\times 1.6$

- 2. 4

Х3.3
X4. 2
Q. 10 The difference between the simple interest on a fixed amount for 7 years and on the same amount for 12 years is $₹ 2,500$. If the rate of interest is $10 \%$ p.a., then the amount is:

Ans
X 1. ₹ 6,000

- 2. ₹ 5,000

X 3. ₹4,500
X4.₹5,500
Q. 11 If $3 \sin ^{2} A+4 \cos ^{2} A-3=0$, then the value of $\cot A$ (where $0 \leq A \leq 90^{\circ}$ ) is:

Ans
X1. $\infty$

- 2. 0
>3.1
X 4. not defined
Q. 12 A bus covered 360 km in 6 hours. If it travels at one-fourth of its usual speed, then how much more time will it take to cover the same distance?
Ans
-1. 18 hours
X 2. 14 hours
X 3. 12 hours
X4. 16 hours
Q. 13 Mohan's income is $40 \%$ more than Shyam's income. Shyam's income is what percentage less than Mohan's income?

Ans
X $1.28 \frac{2}{7} \%$
X2. $28 \frac{5}{7} \%$3. $28 \frac{3}{7} \%$

- 4. $28 \frac{4}{7} \%$
Q. 14 From a point $P$, which is at a distance of 13 cm from the centre $O$ of a circle, a pair of tangents $P Q$ and $P R$ of length 12 cm are drawn to the circle. The area of the quadrilateral PQOR (in $\mathrm{cm}^{2}$ ) is:

Ans
$X 1.50$
$\times 2.76$
X 3.80

- 4.60
Q. 15 X can complete half of the work in 20 days and Y can do one-fifth of the same work in 10 days. X started the work and left after 8 days. Then $Y$ took over to complete the remaining work. The total number of days taken by them to complete the work is:

Ans
$X 1.60$ days
X2. 40 days
X 3. 50 days
4. 48 days
Q. 16 If $3 x+5 y=14$ and $x y=6$, then what is the value of $9 x^{2}+25 y^{2}$ ?

Ans 1.16
$\times 2.14$
X 3.20
$\times 4.182$
Q. 17 A batsman in his $13^{\text {th }}$ inning makes a score of 97 runs, thereby increasing his average score by 5 . What is his average score after the $13^{\text {th }}$ inning?
Ans
$\checkmark 1$.
37
$\times 2.77$
$\times 3.67$
$\times 4.57$
Q. 18 Two numbers are in the ratio of $7: 4$. If each number is increased by 12 , then the ratio becomes $3: 2$. The sum of the numbers is:
Ans
X 1.60
2. 66
$\times 3.68$
X4. 56
Q. 19 The marked price of an article is ₹ 660 . A shopkeeper allows a discount of $20 \%$ and still gets a profit of $10 \%$. If he sells it for ₹ 470 , his profit or loss per cent, correct to two decimal places will be:

Ans
X 1. Profit 3.06\%
X 2. Loss 5.43\%
X 3. Profit 7.59\%

- 4. Loss $2.08 \%$
Q. 20 If $\triangle \mathrm{ABC} \sim \triangle \mathrm{QPR}, \frac{\operatorname{ar}(\triangle \mathrm{ABC})}{\operatorname{ar}(\triangle \mathrm{PQR})}=\frac{4}{9}, A C=12 \mathrm{~cm}, A B=18 \mathrm{~cm}$ and $B C=10 \mathrm{~cm}$, then $P R$ (in cm ) is equal to:

Ans
X1.8
$\times 2.10$

- 3. 15
$\times 4.18$
Q. 21

The value of $\left[\frac{\sin ^{2} 27^{\circ}+\sin ^{2} 63^{\circ}}{\cos ^{2} 24^{\circ}+\cos ^{2} 66^{\circ}}-\sin ^{2} 69^{\circ}-\cos 69^{\circ} \sin 21^{\circ}\right]$ is
Ans
X1. 3
$\times 2.2$

- 3.0

X4.1
Q. 22 Study the given graph and answer the question that follows.


If the Interest on Loans amounted to ₹ 4.50 crores, then the total expenditure on Advertisement, Taxes, Research \& Development and Salary is:

Ans
$X$ 1. ₹ 34 crores
2. ₹30 crores

X 3. ₹ 32 crores
4. ₹36 crores
Q. 23 The value of $4 \times 3 \div 2$ of $3 \times 2 \div(4+5 \times 4 \div 4$ of $5-4 \div 4 \times 4)$ is:

Ans
$\times 2.3$
X 3.6
$\times 4.2$
Q. 24 When a number is divided by 3 , the remainder is 2 . Again, when the quotient is divided by 7 , the remainder is 5 . What will be the remainder when the original number is divided by 21 ?

Ans
X 1.14
$\times 2.13$

- 3.17
$\times 4.16$
Q. 25 Study the given graph and answer the question that follows.


By what percentage is the average export of sugar in 2016, 2017 and 2018 less than the production in 2017?
Ans
X 1. $25.8 \%$
X 2. $29 \%$

- 3. $22.5 \%$

X4. $20 \%$

Section: General Awareness
Q. 1 With which of the following literary magazines was poet and writer Amrita Pritam associated?

Ans

1. Shabad

- 2. Nagmani

X 3. Awaaz
>4. Preetlari
Q. 2 'Eravalla, Kadar, Muduvar ' are languages spoken by the tribes primarily in the state of

Ans

- 1. Tamil Nadu
< 2. Kerala
*3. Karnataka
X4. Maharashtra


## Q. 3 Who among the following was the founder of the Kirana Gharana of classical music?

Ans

- 1. Abdul Karim Khan

X 2. Pran Nath
X 3.Imdad Khan
Х 4. Bade Ghulam Ali Khan
Q. 4 Where in a computer would you use a 'joystick' for computer games and assistive technology?
Ans
X 1. Mail merge

- 2. Cursor control

X 3. Increase memory
Х 4. Storage space
Q. 5 Which one of the following became the first Indian club to qualify for AFC Champions league in 2020?

Ans
X1. Bengaluru FC
X 2. Kerala Blasters FC
3. FC Goa
4. East Bengal FC

## Q. 6 Which player from Pakistan is credited with 10 British Open titles and six World Championship crowns in professional squash?

Ans

- 1. Jahangir Khan

X 2. Azam Khan
X 3. Hashim Khan
X 4. Farhan Zaman
Q. 7 Which modern-day Indian state was created on 1 April 1937 as the United Provinces by the Britishers?
Ans

1. Andhra Pradesh

2 2. Arunachal Pradesh

- 3. Uttar Pradesh

《4. Madhya Pradesh
Q. 8 In the state of $\qquad$ the general direction of the Himalayas is from southwest to northeast.
Ans
(1. Manipur
2. Nagaland

X 3. Mizoram

- 4. Arunachal Pradesh
Q. 9 What is India's rank according to the 'Human Development report 2020' released by the United Nations Development Programme?

Ans

Q. 10 In which of the following years did the Government of India set up the Monetary Policy Committee?

Ans
X 1.2008
>2. 2019
< 3.2010
4. 2016
Q. 11 What is the total charge of an electric dipole?

Ans
$X_{1 .-10}$
$\times 2 .+1$

- 3.0
> 4.10
Q. 12 Which state in India has the highest number of Districts?

Ans

- 1. Uttar Pradesh

X 2. Tamil Nadu
X 3. Madhya Pradesh

- 4. Rajasthan
Q. 13 Which river has the tributaries by the name of Mayurakshi, Damodar, Kangsabati and Rupnarayan?
Ans
X 1 . Godavari
Х 2 . Yamuna
- 3. Hooghly

4. Brahmaputra
Q. 14 Who was the Nawab of Bhopal that ruled from 1868 to 1901?

Ans

- 1. Shah Jahan Begum

2. Begum Sajida Sultan
3. Sikander Jahan Begum
4. Sultan Kaikhusrau Jahan Begum

## Q. 15 Who is the author of the book 'Poskem'?

Ans
\$1. Rohit Bal
< 2. Manish Malhotra
3. Sabyasachi Mukherjee
4. Wendell Rodricks
Q. 16 Which bank got the 'Best Bank in Innovation' award at Business Today -Money Today Financial Awards 2020?
Ans
X 1. Bank of Baroda
Х 2. State Bank of India
3. ICICI Bank

Х4. HDFC Bank
Q. 17 Which of the following does the Special Marriage Act 1954 NOT support?

Ans
X 1. Inter-caste marriage
2. Strict endogamy
3. Inter-faith marriage
4. Communal harmony
Q. 18 Which one of the following is NOT a viral disease?

Ans

- 1. Leprosy
< 2 . Rabies
X 3. Smallpox
>4. Measles
Q. 19 Which of the following schools in Shillong is the first Khelo India Sports school in NorthEast India?
Ans
X 1. Mawroh Government LP School
- 2. Assam Rifles Public School

3. Army Public School

4 4. Government Boys Higher Secondary School
Q. 20 What does LED stand for?

Ans 1. Light Emitting Diode
Х 2. Light Energy Device
3 . Light Efficient Device
4 4 . Light Emitting Decorder
Q. 21 Where in India can we find the Jarawa and the Onge tribes?

Ans
1 1. Daman and Diu

- 2. Andaman and Nicobar Islands

X 3. Chhattisgarh
4. Arunachal Pradesh
Q. 22 Which Indian chess player won the Cairns Cup chess tournament 2020?

Ans
入 1. Padmini Rout
X 2. Dronavalli Harika

- 3. Koneru Humpy

4. Tania Sachdeva
Q. 23 Which of the following islands is/are located in the Bay of Bengal?

Ans
< 1. Meeru
2 2. Minicoy
<3. Diu
4. Andaman and Nicobar
Q. 24 According to 'World Language Database Ethnologue-2019', brought out in February 2020, which Indian language is the third most spoken language of the world in $\mathbf{2 0 1 9}$ ?
Ans
< 2. Punjabi
<3. Tamil
<4. Telegu
Q. 25 Which of the following is a part of the central processing unit of a computer?

Ans
(1. Mouse
< 2. Scanner

- 3. Memory registers

X 4. Joystick

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

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $11 / 08 / 2021$ |
| Exam Time | $12: 00$ PM - 1:00 PM |
| Subject | Combined Higher Secondary Level Exam 2020 |

## Section : English Language

Q. 1 Select the INCORRECTLY spelt word.

Ans
X 1. Recurrent
2. Dilemma
3. Unpretensious
4. Excellence
Q. 2 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. This cooled off into darkness after a few million years.
B. The first time was when the universe began its existence as a glowing fireball.
C. In the modern scientific story, light was created not once but twice.
D. The second time was when the cold material condensed into dense nuggets and ignited to become the first stars.

Ans
X1. DBAC

- 2. CBAD

X ${ }^{2}$ ABCD
X4. BADC

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

The new employee asked the manager, "When do I have to report for work?"
Ans

1. The new employee told the manager that when he had to report for work.

- 2. The new employee asked the manager when he had to report for work.

3. The manager told the new employee when to report for work.
4. The new manager asked the employee when he would report for work.
Q. 4 Select the most appropriate synonym of the given word.

Appalling
Ans

1. Awesome
(2. Tremendous

X 3. Fantastic
4. Shocking
Q. 5 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'.

We have finished our work for the day, so let we go home early today.
Ans
X 1. No substitution required

- 2. let us go

3. let ours go
4. let our go
Q. 6 Select the most appropriate word to fill in the blank.

When you speak, there are gestures and body language that $\qquad$ your words.
Ans
Х 1. achieve
X 2. accomplish

- 3. accompany
(4. construct
Q. 7 Select the INCORRECTLY spelt word.

Ans
入 1. Provoke

- 2. Canfidents

X 3. Ambush
Х4. Disastrous
Q. 8 Select the option that expresses the given sentence in the active or passive voice.

Fifteen children were rescued from an unregistered home by the police.
Ans

- 1. The police rescued fifteen children from an unregistered home.

2. Fifteen children rescued the police from an unregistered home.
3. The police were rescued fifteen children from an unregistered home.
4. The police have rescued fifteen children from an unregistered home.

## Q. 9 Select the most appropriate meaning of the given idiom.

To fish in troubled waters
Ans

- 1. To take advantage of a difficult situation

2. To try to find a big catch in the deep sea
3. To try to do something that is very difficult
4. To catch fish in stormy weather in the sea
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. This means that decisions should not be taken under any kind of pressure to benefit individuals or only a small section of society.
B. First, there should be transparency in making decisions; secrecy breeds corruption.
C. There are certain values that civil servants need to imbibe in themselves for better administration.
D. Then, all decisions must be taken only in public interest, to benefit the community at large.
Ans
Х 1. CADB

- 2. CBDA

Х3. DABC
Х4. BADC
Q. 11 Select the most appropriate ANTONYM of the given word.

Gloomy
Ans
X 1 . Dull

- 2. Bright

3 3. Catchy
(4. Dismal
Q. 12 Select the most appropriate synonym of the given word.

Trail
Ans

1. Rehearsal
2. Glory
$\checkmark$
3. Path

X4. Win
Q. 13 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Although we had / very good batsmen, / we couldn't be able to / score high.
Ans
Х 1 . score high
2. Although we had

- 3. we couldn't be able to

4. very good batsmen
Q. 14 Select the option that can be used as a one-word substitute for the given group of words.

A quick, sudden movement
Ans

- 1. Flick

入 2 . Fleck
ㄱ․ Dust
(4. Speck
Q. 15 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Only five minutes / are allowed / for each speaker / during the function.
Ans
入 1. for each speaker
2. Only five minutes

- 3. are allowed4. during the function
Q. 16 Select the most appropriate ANTONYM of the given word.

Curt
Ans
(1. Impolite

- 2. Polite
<3. Dismal
< 4. Rude
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 required'.

You must return back the book you borrowed last month.
Ans
(1. must be returned

- 2. must return

X 3. No substitution required
( 4. must be returned back
Q. 18 Select the option that can be used as a one-word substitute for the given group of words.

A busy, main road for public use
Ans

< 2. Promenade
<3. Avenue
(4. Highway
Q. 19 Select the most appropriate word to fill in the blank.

Schools will restart physical classes partially and states have $\qquad$ their own conditions and procedures to ensure the safety of students.
Ans
X 1. accepted

- 2. devised
< 3 insisted
< 4. adopted
Q. 20 Select the most appropriate meaning of the idiomatic expression given.

At a stone's throw
Ans 1. Beat someone with a stone
2. Throw a stone at someone

- 3. At a very short distance

4. Like throwing a stone

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

What are the future possibilities for space travel in the long term? (1) $\qquad$ will humans go after they have explored our solar system? It is said that 'Star Trek' could hold the (2) $\qquad$ to these questions. It is predicted that travel to other galaxies will only be (3) $\qquad$ in huge 'starships'. These will wander through space for hundreds or even thousands of years. Each of them will carry a large human (4) $\qquad$ Some of those people will take over a suitable new planet and settle down there. This search for new planets to settle in will continue until life on planet Earth could be just a (5) $\qquad$ memory.

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

Ans

< 2. Why
<3. How
X
4. When

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

What are the future possibilities for space travel in the long term? (1) $\qquad$ will humans go after they have explored our solar system? It is said that 'Star Trek' could hold the (2) $\qquad$ to these questions. It is predicted that travel to other galaxies will only be (3) $\qquad$ in huge 'starships'. These will wander through space for hundreds or even thousands of years. Each of them will carry a large human (4) $\qquad$ Some of those people will take over a suitable new planet and settle down there. This search for new planets to settle in will continue until life on planet Earth could be just a (5) $\qquad$ memory.

SubQuestion No : 22

## Q. 22 Select the most appropriate option to fill in blank number 2.

Ans
> 1 . query

- 2. answer

X 3.door
Х4. solution

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

What are the future possibilities for space travel in the long term? (1) $\qquad$ will humans go after they have explored our solar system? It is said that 'Star Trek' could hold the (2) $\qquad$ to these questions. It is predicted that travel to other galaxies will only be (3) $\qquad$ in huge 'starships'. These will wander through space for hundreds or even thousands of years. Each of them will carry a large human (4) $\qquad$ Some of those people will take over a suitable new planet and settle down there. This search for new planets to settle in will continue until life on planet Earth could be just a (5) $\qquad$ memory.

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

Ans
X 1. imagined

- 2. possible

3. implemented
(4. achieved

## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

What are the future possibilities for space travel in the long term? (1) $\qquad$ will humans go after they have explored our solar system? It is said that 'Star Trek' could hold the (2) $\qquad$ to these questions. It is predicted that travel to other galaxies will only be (3) $\qquad$ in huge 'starships'. These will wander through space for hundreds or even thousands of years. Each of them will carry a large human (4) $\qquad$ Some of those people will take over a suitable new planet and settle down there. This search for new planets to settle in will continue until life on planet Earth could be just a (5) $\qquad$ memory.

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

Ans
>1. instinct
X 2. colony
> 3. proportion

- 4. population


## Comprehension:

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

What are the future possibilities for space travel in the long term? (1) $\qquad$ will humans go after they have explored our solar system? It is said that 'Star Trek' could hold the (2) $\qquad$ to these questions. It is predicted that travel to other galaxies will only be (3) $\qquad$ in huge 'starships'. These will wander through space for hundreds or even thousands of years. Each of them will carry a large human (4) $\qquad$ Some of those people will take over a suitable new planet and settle down there. This search for new planets to settle in will continue until life on planet Earth could be just a (5) $\qquad$ memory.

SubQuestion No : 25

## Q. 25 Select the most appropriate option to fill in blank number 5 .

Ans

- 1. distant

2 2. imaginary
< 3. nearest
<4. factual
Q. 1 In a certain code language, 'UMBRELLA' is written as 'VNCSDKKZ' and 'FASTENED' is written as 'GBTUDMDC'. How will 'MONUMENT' be written in that language?
Ans
入 2. nPOVPFOU
Х 3. LNMTLGMS
X4.nPOWLEOS
Q. 2 Select the Venn diagram that best represents the relationship between the following classes.

Brother, Family, Sister
Ans

Q. 3 Select the correct mirror image of the given combination when the mirror is placed at MN as shown.

QrSgy $\left.4\right|_{N} ^{M}$
Ans
$x$ veroo
$x-1$ eSio


Q. 4 Select the option in which the numbers are related in the same way as are the numbers of the following set.
$(25,17,170)$
Ans
人1. $(23,18,421)$
X 2. $(49,20,140)$
X 3 . $(24,60,240)$
4. $(36,12,144)$
Q. 5 Select the number from among the given options that can replace the question mark (?) in the following series.
$59,59,61,183,187$, ?
Ans
$\times 2$
2. 632

X 3.876
>4.705
Q. 6 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.
Ans2. Saxophone3. Mandolin
< 4. Clarinet
Q. 7 Select the option that is related to the third term in the same way as the second term is related to the first term.

SHOVEL : MFWPIT : : NOVICE : ?
Ans
(1.OPWJDF
(2. WPOHBD

- 3. FDJWPO
(4. MNUHBD
Q. 8 What was the day of the week on 31 January 2009?

Ans
< 2. Sunday
( 3. Monday
< 4. Friday
Q. 9 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
> 1.30:225

- $2.24: 130$
> $3.20: 100$
(4.14:49
Q. 10 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Ruthless
2. Ruler
3. Routine
4. Rusticate
5. Rugby

Ans
X 1.3,5,2,1,4
( ${ }_{2.3,2,5,4,1}$

- $3,3,5,2,4,1$
- 4.5,3,2,4, 1
Q. 11 Which two signs should be interchanged to make the given equation correct?
$45-49+26 \times 70 \div 35=42$
Ans
(1. $\div$ and $\times$
< ${ }_{2 .} \times$ and -
X 3 . + and $\times$
- $4 .+$ and -
Q. 12 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
入1.EBCD
X 2 . NKLM
X

3. IFGH
4. WXYZ
Q. 13 Select the option in which the numbers are related in the same way as are the numbers of the following set.
$(16,60,240)$
Ans
Х 1 . $(16,38,260)$
X 2. $(14,42,196)$

- $3 .(18,56,252)$

X $4 .(20,12,121)$
Q. 14 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$p_{-} t b c p r$ bc_rtb_p_t_c
Ans
入1.r, c, p, b, t, r
2.r,p, c, t, b, r
3. $\mathrm{r}, \mathrm{t}, \mathrm{p}, \mathrm{c}, \mathrm{r}, \mathrm{b}$
-4.r,p,t,r,b,c
Q. 15 Select the option that is embedded in the given figure (rotation is NOT allowed).


Ans

Q. 16 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

Q. 17 How many triangles are there in the given figure?


Ans
-1. 15
$\times 2.14$
$\times 3.17$
$\times 4.16$
Q. 18 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.

24:144::?:174::35:210
Ans

$\times 2.38$
× 3.33
>4.27
Q. 19 उस विकल्प का चयन करें, जो तीसरे शब्द से ठीक उसी प्रकार संबंधित है, जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है।

एंटोमोलॉजी : कीट : : पैलेन्टोलॉजी : ?
Ans

1. भूकंप
2. जीवाश्म
3. ऑटोमोबाइल
4. खनिज पदार्थ
Q. 20 If Aniket is the brother of the son of Priyanka's son, then how is Aniket related to Priyanka?

Ans
-1. Grandson
< 2 . Son
X 3 . Cousin
< 4 . Brother
Q. 21 Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6 . Select the number that will be on the face opposite to the face having ' 3 '.


Ans
X1. 5
$\times 2.2$

- 3.6
$\times 4.4$
Q. 22 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?


Ans

Q. 23 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 balls are spoons.
All stones are balls.
No ball is a pebble.
Conclusions:
I. Some balls are stones.
II. No spoon is a stone.
III. No stone is a pebble.

Ans
1 1. Only conclusion III follows.
v 2. Both conclusions I and III follow.
3. Both conclusions I and II follow.

X 4. Both conclusions II and III follow.
Q. 24 In a certain code language, 'TOPPER' is coded as ' 66 ' and 'MARK' is coded as ' 61 '. How will 'INDUCE' be coded in that language?
Ans
Х 1.86
X 2.106

- 3.100
> 4.96
Q. 25 Select the option in which the words share the same relationship as that shared by the given pair of words.

Libya : Tripoli
Ans
Х 1. Kampala : Uganda
X 2. Harare: Zimbabwe
3. Zambia: Lusaka

X 4. Afghanistan: Jakarta
Q. 1 Vijay bought a fridge and a washing machine together for $₹ 38,200$. He sold the fridge at a profit of $15 \%$ and washing machine at a loss of $24 \%$ and both are sold at the same price. The cost price of the washing machine is:

Ans
X 1. ₹ 26,000
X2. ₹ 24,000

- 3. ₹ 23,000

X4. ₹ 22,000
Q. 2 Solve for $\theta: 3 \operatorname{cosec} \theta+4 \sin \theta-4 \sqrt{3}=0$, where $\theta$ is an acute angle.

Ans
$\times 1.45^{\circ}$
X2. $30^{\circ}$

- 3. $60^{\circ}$
$\times 4.15^{\circ}$
Q. 3 Study the following graph and answer the question that follows.

Number of students that appeared and qualified, from various colleges, at a scholarship examination.


The number of students that appeared for the scholarship exam from College X is what percentage of the total number of students that appeared for the exam from all the colleges together?
Ans
X 1.20
X2. 30

- 3.25
$\times 4.35$
Q. 4 The given bar graph shows the production of table fans in a factory during one week. Study the bar graph and answer the question that follows.


The average production of table fans from Monday to Wednesday is approximately what percentage more than
the average production of table fans from Thursday to Saturday?
(correct to one decimal place)
Ans
X1.25\%
X2. 28\%
X 3. $27.5 \%$

- 4. $26.7 \%$
Q. 5 If the volume of a sphere is $697 \frac{4}{21} \mathrm{~cm}^{3}$, then its radius is:
(Take $\pi=\frac{22}{7}$ )
Ans
$X 1.6 \mathrm{~cm}$
$\times 2.5 \mathrm{~cm}$
$X 3.4 .5 \mathrm{~cm}$

4. 5.5 cm
Q. $6 x, y$ are two positive numbers such that $x>y$. If $x^{4}+y^{4}=706$ and $x y=15$, then the value of $2 x+3 y$ is:

Ans
-1. 19
X2. 20
$\times 3.18$
X4.15
Q. 7 The marked price of an article is $₹ 1,360$. If a shopkeeper sold the article at $15 \%$ loss after giving $25 \%$ discount, then the cost price of the article is:
Ans

- 1. ₹ 1,200

X 2. ₹ 1,600
X 3. ₹ 1,400
X4. ₹ 1,500
Q. 8 A completes $20 \%$ of a work in 5 days and B completes one-third of the work in 5 days. They began the work together but B leaves after 3 days. The total number of days needed for completion of the work is:
Ans
X 1.18
$\times 24$

- 3. 20
$\times 4.30$

Status: Answered
Q. 9 If the radius of a circle is equal to a diagonal of a square whose area is $12 \mathrm{~cm}^{2}$, then the area of the circle is:

Ans
X $1.28 \pi \mathrm{~cm}^{2}$
X2. $32 \pi \mathrm{~cm}^{2}$

- 3. $24 \pi \mathrm{~cm}^{2}$

X4. $36 \pi \mathrm{~cm}^{2}$
Q. 10 Study the given bar graph which shows the life time (in hours) of neon lamps and the number of neon lamps and answer the question that follows.


The number of neon lamps having life 500 hours or more but less than 700 hours is what percent of the total number of neon lamps having life 800 hours or more?

Ans
X 1. 57.75\%
X $2.61 .55 \%$

- 3. $56.25 \%$

X4. $51.85 \%$
Q. 11 A, B and C are three positive numbers such that $A$ is $70 \%$ of $B$, and B is $40 \%$ of $C$. If the sum of all three numbers is 336 , then $15 \%$ of the sum of $B$ and $C$ is:

Ans
-1. 42
$\times 2.44$
X 3.48
$\times 4.32$
Q. 12 The smallest six-digit number that is exactly divisible by 53 is:

Ans

- 1. 100011

X 2. 100042
$\times 3.100008$
$\times 4.100064$
Q. 13 A soft drink company prepares drinks of three different flavours - A, B and C. The production of the three flavours over a period of five years from 2010 to 2014 has been expressed in the given bar graph. Study the graph and answer the question that follows.

Production of three different flavours A, B and C (in lakh bottles) by a company over five years.


What was the approximate percentage decline in the production of flavour A in 2013 as compared to the production of flavour A in 2011?

Ans
X 1. $30 \%$
X 2. $24 \%$
X 3. $20 \%$
4. $25 \%$
Q. 14 A, B and C are three positive numbers such that the average of three-fifth of A and $30 \%$ of $B$ is 13.5 , and the average of
$\frac{3}{8}$ times of B and $25 \%$ of C is 15 . If A is equal to $\frac{5}{12}$ times of C , then the sum of all three numbers $\mathrm{A}, \mathrm{B}$ and C is:
Ans
-1. 125
$\times 2.135$
$\times 3.145$
$\times 4.120$
Q. 15 In a triangle $A B C$, the length of side $A C$ is 4 cm less than five times the length of side $A B$. The length of side $B C$ exceeds four times the length of side $A B$ by 4 cm . If the perimeter of $\triangle A B C$ is 90 cm , then its area is:

Ans
X $1.160 \mathrm{~cm}^{2}$
X2. $164 \mathrm{~cm}^{2}$

- 3. $180 \mathrm{~cm}^{2}$

X4. $148 \mathrm{~cm}^{2}$
Q. 16 If $a-\frac{24}{a}=5$, where $a>0$, then the value of $a^{2}+\frac{64}{a^{2}}$ is:

Ans
<1. 45
$\times 2.56$
$\times 3.60$

- 4.65
Q. 17 If $a-b=7$ and $a^{2}+b^{2}+169$ where $a, b>0$, then the value of $3 a+b$ is:

Ans $\times 1.44$

- 2. 41
$\times 3.38$
X4. 46
Q. 18 If $\cot A+\operatorname{cosec} A=2$ and $A$ is an acute angle, then the value of $\frac{9 \tan \mathrm{~A}+16 \operatorname{cosec} \mathrm{~A}}{5 \sin \mathrm{~A}+3 \tan \mathrm{~A}}$ is:

Ans
X1. 3
X2. 6

- 3.4
$\times 4.8$
Q. 19 A sum of money is distributed among A, B, C and $D$ in the ratio $5: 7: 11: 15$, respectively. If $C$ gets $₹ 2,480$ more than $B$, then the difference between the shares of $B$ and $D$ is:

Ans
X 1. ₹ 6,490
X 2. ₹ 4,950
X 3. ₹ 4,690

- 4. ₹ 4,960
Q. 20 A certain sum of money amounts to $₹ 9,766$ in 3 years at simple interest at $R \%$ per annum and to $₹ 10,849$ in $4 \frac{1}{2}$ years at the same rate of simple interest. The value of R is:

Ans
X1. 8
$\times 2.9$
3. 9.5
$\times 4.8 .5$
Q. 21 Ajit Singh left from place P at 9.30 a.m. for place Q , and David Raj left place Q at $1.30 \mathrm{p} . \mathrm{m}$. for place P . The distance between them is 416 km . If Ajit Singh's speed is $44 \mathrm{~km} / \mathrm{h}$ and David Raj's speed is $52 \mathrm{~km} / \mathrm{h}$, then at what time will they meet each other?
Ans
X 1. 4.30 p.m.
$\times 2.5$ p.m.
X 3. 6 p.m.
4. 4 p.m.
Q. 22 The sum of three sides of an isosceles triangle is 20 cm , and the ratio of an equal side to the base is $3: 4$. The altitude of the triangle is:

Ans
X ${ }^{1} .3 \sqrt{3} \mathrm{~cm}$
X $2.3 \sqrt{5} \mathrm{~cm}$
X $3.4 \sqrt{5} \mathrm{~cm}$

- $4 \sqrt{5} \mathrm{~cm}$
Q. 23

The value of $441 \div\left[270 \div \frac{3}{7}\right.$ of $\left.35+\left(17 \div \frac{1}{3}\right)-\left(8 \frac{1}{2}-\frac{5}{2}\right)\right]$ is:
Ans
-1. 7
$\times 2.21$
X 3.11
$\times 4.14$
Q. 24 If $\cot ^{2} \theta+\cot ^{4} \theta=2$, then the value of $2 \sin ^{4} \theta+\sin ^{2} \theta$ is:

Ans
$\times 1.3$
$\times 2.5$

- 3.1
$\times 4.2$
Q. $25 A, B$ and $C$ are three points on a circle whose centre is $O$. If angle $B O C$ is equal to $124^{\circ}$, then what is the value (in degrees) of angle $B A C$ ?

Ans
$\times 1.72$

- 2. 62

X 3.66
4. 34

Section : General Awareness

## Q. 1 Which of the following mountain passes is situated in the state of Uttarakhand?

Ans
X 1. Nathu La Pass
Х 2. Baralacha La Pass
X 3. Bomdi La Pass

- 4. Mangsha Dhura Pass
Q. 2 Who was appointed as UNICEF's celebrity advocate for a children's rights campaign in September 2020?

Ans
X 1 . Aamir Khan
Х 2. Nawazuddin Siddiqui
3. Ayushmann Khurrana

X 4. Akshay Kumar
Q. 3 'PVC' is a high strength thermoplastic material widely used in applications, such as pipes, medical devices, wire and cable insulation. What is the full form of PVC?
Ans
(1. Polyvinyl Carbazole

- 2. Polyvinyl Chloride
< 3. Polyvinyl Calcium
(4. Polyvinyl Carbonate
Q. 4 After over 21 years stay in South Africa, Gandhiji returned to India in $\qquad$ _.
Ans 1.1915
<2. 1916
< 3.1917
< 4.1919
Q. 5 What was India's rank in the World Press Freedom Index 2020?

Ans
入1.92
X 2.139

- 3.142

Х 4.97
Q. 6 The nephron is the microscopic structural and functional unit of the:

Ans

- 1. kidney

X 2 . heart
X 3.lung
<4. liver
Q. 7 National Highway No. 7 connects:

Ans

- 1. Fazilka to Mana

X 2. Kashmir to Kanyakumari
(3. Varanasi to Kanyakumari
(4. Kanpur to Silchar
Q. 8 To which country does the French Open 2020 women's singles winner, Iga Swiatek belong?

Ans
< 1. China
\$ 2. France

- 3. Poland
<4. Japan
Q. 9 Which of the following diseases damages the eye's optic nerve and results in vision loss and blindness and occurs when the normal fluid pressure inside the eyes slowly rises?
Ans
< 1. Vitiligo
(2. Psoriasis

7 3. Gonorrhoea

- 4. Glaucoma
Q. 10 India's first lithium refinery, which will process lithium ore to produce battery-grade material, will be set up in:
Ans
< 1. Uttar Pradesh
< 2. Rajasthan
X 3. Madhya Pradesh
- 4. Gujarat
Q. 11 The 'Hornbill Festival' is a celebration held every year from 1 to 10 December in $\qquad$ _.
Ans
X 1. Haryana
< 2. Kerala3. Nagaland
(4. Uttarakhand
Q. 12 In which of the following states is Neora Valley National Park situated?

Ans
Х 1. Maharashtra
< 2. Kerala
(3. Himachal Pradesh
4. West Bengal
Q. 13 Which of the following organisations was awarded with the Nobel Peace Prize 2020?

Ans
Х 1. World Health Organization
< 2. World Trade Organization

- 3. World Food Programme

Х 4. International Labour Organization
Q. 14 Who is the Chief Justice of Bangladesh as of May 2020?

Ans
X 1. Abdul Hamid

- 2. Syed Mahmud Hossain

X 3. Narender Batra
74. Sheikh Hasina
Q. 15 Which of the following writs is a challenge to the legality of a prisoner's detention?

Ans
X 1. Mandamus
$>2$
2. Quo Warranto
$\checkmark$
3. Habeas corpus
(4. Prohibition
Q. 16 Which of the following Hindu festivals is celebrated in the last month of the Hindu calendar?

Ans 1.Holi
X 2. Diwali
X 3. Raksha Bandhan
X 4. Makara Sankranti
Q. 17 The Battle of Bedara was fought between the British Army and the Dutch Army in:

Ans
X 1.1760

- 2.1759

Х 3.1772
Х4.1764
Q. 18 Who among the following won the 'Tenzing Norgay National Adventure Award' in August 2020 in the 'Water Adventure' category?
Ans

- 1. Satyendra Singh

2. Narendra Singh

X 3. Sarfaraz Singh
(4. Anita Devi
Q. 19 Which of the following is an open source operating system?

Ans
X 1 . Windows 10
X 2. Windows Vista

- 3. Android

X4.iOs
Q. 20 Which of the following is the correct definition of bank rate?

Ans

- 1. It is the rate of interest payable by commercial banks to RBI.

Х 2. It is the rate of interest payable by a scheduled bank at which RBI lends overnight.
X 3. It is the rate of interest payable by a consumer to commercial banks.
X 4. It is the rate of interest payable by RBI to commercial banks.
Q. 21 Which of the following is an input device used to verify the legitimacy or originality of paper documents, especially cheques?
Ans
Х 1. Non-impact printer
Х 2. Optical mark reader
3. Electronic card reader

- 4. Magnetic ink character recognition
Q. 22 Chulia waterfall is situated on Chambal River in $\qquad$
Ans
Х 1. Uttar Pradesh
X ${ }^{2}$. Gujarat

3. Rajasthan

X4. Madhya Pradesh
Q. 23 In which of the following states was the Monpa handmade paper making unit inaugurated in December 2020?
Ans
< 1. Tripura
< 2. Assam3. Arunachal Pradesh

7 4. Manipur
Q. 24 Who among the following was the first female hockey player to have won the Rajiv Gandhi Khel Ratna Award?

Ans
X 1. Gurjit Kaur
X 2. Reena Khokhar

- 3. Rani Rampal

X 4. Lilima Minz
Q. 25 In the Union Budget 2020-21, the Government of India proposed to spend ₹ $30,42,230$ crore in 2020-21, which is $\qquad$ higher than the revised estimate of 2019-20.

Ans

- $1.12 .7 \%$
< 2. 18.9\%
< $3.18 .7 \%$
Х $4.17 .6 \%$


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

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 11/08/2021 |
| Exam Time | 3:00 PM - 4:00 PM |
| Subject | Combined Higher Secondary Level Exam 2020 |

## Section : English Language

Q. 1 Select the incorrectly spelt word.

Ans

1. irresistible
2. illegitimate
3. illegible
4. irepairable
Q. 2 In the given sentence, identify the segment which contains a grammatical error.

My tailor is made some very stylish dresses for me as well as for my daughter.
Ans

1. for my daughter

- 2 . is made

3. very stylish dresses
4. for me as well as
Q. 3 Select the most appropriate meaning of the given idiom.

A dime a dozen
Ans

- 1. common and so of little value

2. in great demand as not easily available
3. available only in bulk
4. not available everywhere
Q. 4 Select the word which means the same as the group of words given.
someone who runs away from justice
Ans
(1.stowaway
5. cheat

- 3. fugitive
<4. thief
Q. 5 Select the most appropriate word to fill in the blank.

The government has opened many new centres of excellence to train teachers in conducting online classes $\qquad$ _.

Ans $\qquad$
(2. hopefully

X 3. certainly
X
4. automatically
Q. 6 Given below are four jumbled sentences. Out of the given options, select the one that gives their correct order.
A. It is only after sunset that he satisfies his hunger and quenches his thirst.
B. In this way, by practicing self-restraint for one month in a year, he is able to lead a life of self-discipline in all matters for the rest of the year.
C. During the month of Ramzan, the believer abstains from food and drink in the daytime of his own free will.
D. Fasting is an exercise in self-discipline and is good for everyone.

Ans
<1. DBCA
< 2. CDAB
< 3. CBDA
4. DCAB
Q. 7 Select the most appropriate ANTONYM of the given word.

PRECIOUS
Ans

- 1. worthless
(2. plentiful
( 3. ugly
X 4. costly


## Q. 8 Select the most appropriate synonym of the given word.

HAZARDOUS
Ans
X1. uncaring

- 2. dangerous

X 3. smooth
Х 4. predictable

## Q. 9 Select the most appropriate meaning of the given idiom.

A red letter day
Ans

1. a day of fun and enjoyment
2. a day of horror
3. the worst day

- 4. a memorable day
Q. 10 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'.

It was the biggest jump in earnings for me and I was delighted.
Ans
1 1. was the bigger
$\times$ 2. is the big
3 3 has been the biggest
4. No substitution
Q. 11 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'.

These days, wherever district courts are functioning, hearings is limit to urgent matters.
Ans

- 1. hearings are limited

2. hearing is limit
3. No substitution
4. hearings were limited
Q. 12 Given below are four jumbled sentences. Out of the given options, select the one that gives their correct order.
A. According to sources, one of the degrees will have to be in the regular mode and the other either in open and distance learning or online mode.
B. In a move to improve students' career prospects, the University Grants Commission has approved the proposal to allow them to pursue two degree programmes at the same time. C. A committee formed under the UGC vice chairperson worked on the proposal based on feedback from the public.
D. Once the guidelines are notified, a student studying in a university will be able to pursue another degree programme simultaneously.
Ans
\$1. DBAC

- 2. BCDA
< 3. ABDC
<4. CBAD


## Q. 13 Select the INCORRECTLY spelt word.

Ans

- 1. allert
. 2. allegation
* 3. alliteration
(4. almighty
Q. 14 Select the most appropriate synonym of the given word.

POLLUTE
Ans
1 1. ridicule

- 2. contaminate

3. destroy

X 4. condemn
Q. 15 Select the correct passive form of the given sentence.

The counsellor gave very good advice to the students.
Ans

1. Very good advice to the students has been given by the counsellor.
2. Very good advice to the students had been given by the counsellor.
3. Very good advice is given to the students by the counsellor.

- 4. Very good advice was given to the students by the counsellor.
Q. 16 Select the correct indirect form of the given sentence.

Mother said to me, "Enjoy your vacation with your friends."
Ans 1. Mother told me to enjoy my vacation with my friends.
2. Mother asked me to enjoyed my vacation with my friends.
3. Mother told me that you should enjoy your vacation with your friends.
4. Mother told me that I will enjoy my vacation with my friends.
Q. 17 In the given sentence, identify the segment which contains a grammatical error.

The manager said that Rahul does not wants to go to Mumbai for the new project.
Ans

- 1. does not wants

2. for the new project
3. said that
4. to go to
Q. 18 Select the most appropriate word to fill in the blank.

The jail $\qquad$ have started yoga and meditation classes for the inmates.

Ans

1. residents
< 2. people
X 3. workers
2. authorities
Q. 19 Select the most appropriate ANTONYM of the given word.

Infallible
Ans

- 1. Faulty

2. Unfailing

3 3. Dependable
(4. Reliable
Q. 20 Select the word which means the same as the group of words given.

A place where a dead person's body is burnt.
Ans

- 1. crematorium

2. graveyard
3.basement

X4.dungeon

## 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.

As the full impact of cyclone Amphan's fury emerged on Thursday morning and the count of uprooted trees (1) $\qquad$ the 5000 mark, environmentalists, horticulturists, and nature lovers mourned the huge (2) $\qquad$ . But they also felt that Kolkata could emerge stronger from the
(3) $\qquad$ if it used the opportunity to move from arbitrary plantation drives to ones that (4) climate in (5) $\qquad$ parts of West Bengal as oxygen levels will go down.

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

Ans

- 1. crossed
< 2. crosses

3. is crossing
4. was crossed

## 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.

As the full impact of cyclone Amphan's fury emerged on Thursday morning and the count of uprooted trees (1) $\qquad$ the 5000 mark, environmentalists, horticulturists, and nature lovers mourned the huge (2) $\qquad$ . But they also felt that Kolkata could emerge stronger from the (3) $\qquad$ if it used the opportunity to move from arbitrary plantation drives to ones that (4) $\overline{\text { climate in (5) }}$ $\qquad$ parts of West Bengal as oxygen levels will go down.

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

Ans
X 1. failure
2. loss

X 3.death
(4. passing

## 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.

As the full impact of cyclone Amphan's fury emerged on Thursday morning and the count of uprooted trees (1) $\qquad$ the 5000 mark, environmentalists, horticulturists, and nature lovers mourned the huge (2) $\qquad$ . But they also felt that Kolkata could emerge stronger from the
(3) $\qquad$ if it used the opportunity to move from arbitrary plantation drives to ones that (4)
climate in (5) $\qquad$ parts of West Bengal as oxygen levels will go down.

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

Ans

1. construction
2. destruction
3.extinction
3. creation

## 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.

As the full impact of cyclone Amphan's fury emerged on Thursday morning and the count of uprooted trees (1) $\qquad$ the 5000 mark, environmentalists, horticulturists, and nature lovers mourned the huge (2) $\qquad$ . But they also felt that Kolkata could emerge stronger from the (3) $\qquad$ if it used the opportunity to move from arbitrary plantation drives to ones that (4)
$\qquad$ more scientific and rational. The loss of trees is bound to have a great impact on the climate in (5) $\qquad$ parts of West Bengal as oxygen levels will go down.

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

Ans
<1. have

- 2. are
< 3 . was
$>4$ is


## 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.

As the full impact of cyclone Amphan's fury emerged on Thursday morning and the count of uprooted trees (1) $\qquad$ the 5000 mark, environmentalists, horticulturists, and nature lovers mourned the huge (2) $\qquad$ . But they also felt that Kolkata could emerge stronger from the
(3) $\qquad$ if it used the opportunity to move from arbitrary plantation drives to ones that (4)
climate in (5) $\qquad$ parts of West Bengal as oxygen levels will go down.

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

Ans
Х 1.abundant
X 2. much

- 3. several

4. differing

## Section : General Intelligence

Q. 1 Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

MT_RM_QR_VQ_MW_RM_QR
Ans
X1.RUMRQY
X2.QUMQRX

- 3. QUMRQX

X4.QUSRQR
Q. 2 Three of the following four letter-clusters are alike in a certain way and one is different. Select the odd one.
Ans

1. PLSK

X 2 . DZHW
X 3.GCKT
X4. HDLS
Q. 3 In a code language, ORANGE is written as LKZGTX and MIRACLE is written as NBITXEV. How will LOCKDOWN be written in that language?
Ans
\$1. OHXHWDGD
2. OHDXHWDG
\$3. OHXHWDDG
v 4. OHXDWHDG
Q. 4 Select the number that can replace the question mark (?) in the following series.

4, 11, 31, 65, 193, ?
Ans
< 1.396
>2.369

- 3.389
> 4.398
Q. 5 Pointing towards Kapil, Aditya said, "His father is the husband of my father's father's daughter". How is Aditya's father related to Kapil's mother?
Ans

1. Father2. Husband
<3. Son

- 4. Brother
Q. 6 Select the correct combination of mathematical signs to sequentially replace the * signs to balance the given equation.

1496*8*13*40*5=0
Ans

- $1 . \div,+,-, x$
<2. $+\div,-, x$
<3.,,$-+ \div, x$
<4. $+\div, \div,-$
Q. 7 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

v 2.

Q. 8 Three statements are given, followed by four conclusions numbered I, II, III and IV.

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:

1. All carpets are beds.
2. Some tables are carpets.
3. All pillows are tables.

## Conclusions:

I. All pillows are beds.
II. Some pillows are beds.
III. Some beds are tables.
IV. All tables are beds.

Ans
X 1. Both conclusions II and III follow .
Х 2. Only conclusion I follows .
3. Both conclusions I and II follow .
4. Only conclusion III follows .
Q. 9 Which option represents the correct order of the given words as they would appear in English dictionary?

1. Rumoured
2. Rudiment
3. Rumanian
4. Royalties
5. Rigorous

Ans
( $1.4,5,2,3,1$
<2. $4,5,2,1,3$
> $3,5,4,2,1,3$

- $4.5,4,2,3,1$
Q. 10 Select the Venn diagram that best illustrates the relationship between the following classes.

Rats, Cats, Mammals
Ans

Q. 11 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
$\times 1$.


X4.

Q. 12 Two numbers, $A$ and $B$, are such that the sum of $3 \%$ of $A$ and $6 \%$ of $B$ is four-fifth of the sum of $4 \%$ of $A$ and $6 \%$ of $B$. Find the ratio of $A+B$ and $A-B$ ?
Ans
X1.4:5
>2.6:5

- $3.7: 5$
X4.5:6
Q. 13 Select the set in which the numbers are related in the same way as are the numbers of the following set.
$(13,37,77)$
Ans
入1. $(15,43,83)$
Х 2 . $(12,38,79)$
- 3. $(14,40,83)$

X4. $(17,53,109)$
Q. 14 Three of the following four words are alike in a certain way and one is different. Select the odd one.
Ans
Х 1. Contention
X 2. Turmoil
3. Conflict

- 4. Tranquility
Q. 15 Select the set in which the numbers are related in the same way as are the numbers of the following set.
$(4,140,6)$
Ans
> ${ }_{1 .}(9,396,4)$
> ${ }_{2}{ }_{(2,121,6)}$
- $3 .(5,234,7)$
<4. $(3,269,8)$
Q. 16 Select the word-pair that best represents a similar relationship to the one expressed in the given word-pair.

Spanner: Grip
Ans
(1. Axe: Dig2. Tongs: Guard3. Auger: Bore
4. Carve: Chisel
Q. 17 Three of the following four number-pairs are alike in a certain way and one is different. Select the one that is different.
Ans
人1.4:48

- $2.5: 105$
<3.7:294
<4.6:180
Q. 18 'Awl' is related to 'Cobbler' and 'Chisel' is related to 'Sculptor' in the same way as 'Anvil' is related to $\qquad$ '.

Ans

1. Carpenter
< 2. Surgeon
X 3 . Butcher
2. Blacksmith
Q. 19 If STROKE is coded as 2317131089 and GLUTEN is coded as $\mathbf{1 4 2 3 8 7 1 6 2 1}$, then how will CHARGE be coded as?

Ans
(1.231220272052
(2. 232110270225
( 3.230211722025

- 4.232110272025
Q. 20 Find the number of triangles in the following figure.


Ans
X1. 322. 33

X 3.30
4. 31
Q. 21 If the given figure is folded to form a cube, which number will be on the face opposite to the one having ' 1 '?

## 5



Ans
$\times 1.4$

- 2. 2

X3. 3
Х4.5
Q. 22 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.

PRINT : TWRIP : : CLOSE: ?
Ans

- 1. EQLNC

X2. ${ }^{2}$. ${ }^{2}$ KHC
X3.EQKNC
人4.EPLMC

## DIViNeMaGIC

Ans

- VIЮょMsИiVIG x2 DIム! 16 NTCIC $^{9}$
${ }^{\times 3}$ DI $\triangle$ !ИЛN ${ }^{6}$ CIC
x - ЭIŋэMsИiVIG
Q. 24 Select the figure that will come in place of the question mark (?) in the following figure series.


Ans

Q. 25 In the following question, the second number is related to the first number in some way, choose the alternative which is similarly related to the third number

13:196:: $15: ?$
Ans
<1.221
<2. 247
< 3.298

- 4.256

Section : Quantitative Aptitude
Q. 1 In $\triangle A B C, P$ and $Q$ are the mid-points of the sides $A B$ and $A C$, respectively. $R$ is a point on the segment $P Q$ such that $P R$
$: R Q=1: 3$. If $P R=4 \mathrm{~cm}$, then $B C$ is equal to:
Ans
X 1.36 cm
X 2. 28 cm
X 3. 24 cm

- 4. 32 cm
Q. 2

$$
\text { The value of } \frac{\cos ^{2} 89^{\circ}+\cos ^{2} 1^{\circ}}{\cos 30^{\circ} \sin 90^{\circ}-\sin 30^{\circ} \cos 90^{\circ}} \text { is: }
$$

Ans
-1. $\frac{2}{\sqrt{3}}$
X2. $2 \sqrt{3}$
>3. $\frac{1}{\sqrt{3}}$
人4. $\frac{1}{1-\sqrt{3}}$
Q. 3 Study the given graph and answer the question that follows.

The chart represents the demand and production of leather bags by five companies $\mathrm{U}, \mathrm{V}, \mathrm{X}, \mathrm{Y}$ and Z .


The difference between the average demand and average production of the five companies taken together is:
Ans
$\times 1.525$
$\times 2.450$
$\times 3.475$

- 4. 500
Q. 4 The largest six-digit number exactly divisible by 243 is:

Ans $\times 1.999943$

- 2. 999945

X 3. 999947
X4. 999949
Q. 5 Study the given graph and answer the question that follows.

The chart represents the demand and production of leather bags by five companies $\mathrm{U}, \mathrm{V}, \mathrm{X}, \mathrm{Y}$ and Z .


If $\mathrm{h} \%$ of the demand of leather bags for company X equals the demand of the leather bags for company V , then h equals:
Ans
X 1.22

- 2. 20
$\times 3.18$
$\times 4.24$
Q. 6 A sum of $₹ 9,400$ is divided between $A, B$ and $C$ such that the ratio of the shares of $A$ and $B$ is $4: 3$ and that of $B$ and $C$ is $5: 4$. What is the share of $C$ ?
Ans
X 1. ₹ 2,600
X 2. ₹ 2,200
X 3. ₹ 2,000
- 4 . $₹ 2,400$
Q. 7 If $x=555, y=556$ and $z=557$, then find the value of $x^{3}+y^{3}+z^{3}-3 x y z$.

Ans
Х 1. 5006
X2. 5002
Х 3.5008

- 4. 5004
Q. 8 The average age of 35 persons is 40 years. 5 new persons with an average age of 35 years joined them. The average age of all the persons is:
Ans
-1. $39 \frac{3}{8}$ years
$\times 2.39 \frac{1}{8}$ years
$\times 3.39 \frac{7}{8}$ years
X4. $39 \frac{5}{8}$ years
Q. 9 The area of the largest triangle that can be inscribed in a semi-circle of radius 6 cm is:

Ans

- $1.36 \mathrm{~cm}^{2}$
$\times 2.34 \mathrm{~cm}^{2}$
$\times$ 3. $35 \mathrm{~cm}^{2}$
$\times 4.38 \mathrm{~cm}^{2}$
Q. 10 If $6 \tan ^{2} \alpha-2=0,\left(0<\alpha<90^{\circ}\right)$, then the value of $\alpha$ is:

Ans$30^{\circ}$
$\times 2.45^{\circ}$
$\times 3.15^{\circ}$
$\times 4.75^{\circ}$
Q. 11 If $a+5 b=25$ and $a b=20$, then one of the values of $(a-5 b)$ is:

Ans
-1. 15
$\times 2.14$
$\times 3.16$
X 4.13
Q. 12 Varun and Gaurav can dig a pond in 10 days and 18 days, respectively. After finishing that work together, they receive an amount of $₹ 7,280$. What is the share of Gaurav in that amount?
Ans
-1. ₹ 2,600
X 2. ₹ 2,500
X 3. ₹ 2,700
X4. ₹ 2,800
Q. 13 Ram sold a plot for $₹ 6,55,000$ at $20 \%$ loss. For what price should he sell the plot to gain $15 \%$ profit?

Ans
X 1. ₹ $7,41,562.50$
$>2$
2. ₹ $6,41,562.50$

X 3. ₹8,41,562.50

- 4 ₹ $9,41,562.50$
Q. 14 Study the given pie-chart and answer the question that follows.

The pie-chart represents the percentage distribution of candidates qualified in a bank examination from six different districts of a State in 2016. The total number of qualified candidates from the State is 68000 .

> The percentage distribution of candidates
> qualified for a bank examination from six districts A, B, C, D, E, and F of a State


Districtsm $=A\|C\| D \Perp E \Perp F$

What is the difference (to the nearest whole number) between the average number of qualified students from the Districts A, C and F and the average number of qualified students from the Districts B, D and E?

Ans
X 1.906
$\times 2.910$
$\times 3.900$

- 4.907
Q. 15 Pawan travels from X to Y at the speed of $10 \mathrm{~km} / \mathrm{h}$, from Y to Z at $15 \mathrm{~km} / \mathrm{h}$ and from Z to W at $20 \mathrm{~km} / \mathrm{h}$. If $\mathrm{XY}=\mathrm{YZ}=$ ZW (in km ), then the average speed of Pawan for the whole journey is:

Ans X 1. $13 \frac{10}{13} \mathrm{~km} / \mathrm{h}$2. $13 \frac{11}{13} \mathrm{~km} / \mathrm{h}$

X 3. $13 \frac{8}{13} \mathrm{~km} / \mathrm{h}$
X 4. $13 \frac{9}{13} \mathrm{~km} / \mathrm{h}$
Q. 16 Line AC is a tangent to a circle at point B on it, and PQ is a chord of the circle such that $\mathrm{BP}=\mathrm{BQ}$. If $\angle \mathrm{ABP}=64^{\circ}$, then find the measure of $\angle \mathrm{PBQ}$.

Ans
$\times 1.58^{\circ}$
$\times 2.64^{\circ}$

- 3. $52^{\circ}$

X $4.32^{\circ}$
Q. 17

The value of $364-\left[142-\left\{75+\left(38-\frac{\overline{5}+\frac{14}{8}}{4}\right)\right\}\right]$ is:
Ans

1. 332
$\times 2.330$
$\times 3.331$
$\times 4.334$
Q. 18 A shopkeeper marks his goods $25 \%$ above the cost price. Then, he allows a $40 \%$ discount on it. What is the percentage loss?
Ans 1. $25 \%$
X 2. $15 \%$
X 3. $20 \%$
X 4. $30 \%$
Q. 19 If $\sin \alpha+\csc \alpha=\tan \frac{\pi}{3}$, then the value of $\left(\sin ^{3} \alpha+\csc ^{3} \alpha\right)$ is equal to:

Ans
X1.1/2
$\times 2.1$

- 3. 0

X4. $3 / 2$
Q. 20 Study the given pie chart and table and answer the question that follows.

The pie chart represents the percentagewise distribution of 300 students of class X in a school in six different sections A, B, C, D, E and F


The table shows the number of boys of class X in six different sections $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}$ and F .

| Section | A | B | C | D | E | F |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| No. of boys | 36 | 26 | 34 | 28 |  | 20 |

If the total number of students in section $C$ is 57 , then the total number of girls in section $C$ and $D$ together will be:
Ans
X 1.36

- 2. 46
$\times 3.48$
X4. 40
Q. 21 If $3 a-b=1$ and $a b=4$, then the value of $\left(9 a^{2}-b^{2}\right)$ is:

Ans
-1. 7
$\times 2.8$
$\times 3.5$
$\times 4.6$
Q. 22 In how much time will a sum of $₹ 5,000$ invested at the rate of $15 \%$ simple interest per annum amount to $₹ 6,500$ ?

Ans
$X 1.2 .5$ years
$\times 2.1$ year
X 3. 1.5 years

- 4. 2 years
Q. 23 The cost price of a chair is $₹ 1,800$. Later, its cost price becomes $₹ 2,100$. What is the percentage increase in the cost price of the chair?
Ans
X $1.16 \frac{5}{6} \%$
- 2. $16 \frac{2}{3} \%$

X 3. $16 \frac{1}{2} \%$
$\times 4.16 \frac{1}{3} \%$
Q. 24 Two parallel chords are drawn in a circle of diameter 50 cm on the opposite sides of its centre. The length of one chord is 40 cm and the distance between the two chords is 22 cm . The length of the other chord is:
Ans
$\times 1.46 \mathrm{~cm}$
$\times 2.50 \mathrm{~cm}$
X 3.44 cm

- 4.48 cm
Q. 25 The perimeter of a rectangle is 86 cm . The numbers representing its area and breadth are in the ratio of $9: 1$, respectively. The breadth of the rectangle is:

Ans
X 1.32 cm
2. 34 cm

X 3.36 cm
X 4.30 cm
Q. 1 Which of the following is a replica of the famous Taj Mahal built in 1679 ?

Ans 1. Zeenat-ul-Masjid
< 2. Pari Mahal

- 3. Bibi ka Maqbara

入4. Allahabad Mahal

## Q. 2 In which year was Jharkhand made a separate state of India?

Ans
<1. 1997
Х 2.1999
X 3.2004

- 4.2000


## Q. 3 As on 2019, which is the largest multinational bank company in the world as measured by total assets?

Ans

1. State Bank of India
(2. National Savings Bank

- 3. Industrial and Commercial Bank of China
(4. Agricultural Bank of China
Q. 4 Which Indian state is surrounded by Bangladesh on its north, west and south?

Ans

- 1. Tripura
< 2. Assam
X 3. Mizoram
(4. West Bengal
Q. 5 Which Indian journalist was awarded the Windham-Campbell Prize 2019 for the book 'Farthest Field: An Indian Story of the Second World War'?
Ans
(1. Ashok Malik
- 2. Raghu Karnad

3. Dionne Bunsha

4 4. Mrinal Pande
Q. 6 What was the theme for 11 February 2020, celebration of the United Nations International Day of Women and Girls in Science?

Ans
(1. Science for women empowerment2. Investment in Women and Girls in Science for Inclusive Green Growth
3. Welcome the women and girl achievers in science
4. Inclusive growth of women and girls in science
Q. 7 'Bauhche' is a traditional bridegroom's sword worn during a tribal wedding ceremony in:

Ans 1. Andhra Pradesh
X 2. Uttar Pradesh
X 3. Madhya Pradesh

- 4. Arunachal Pradesh
Q. 8 ___ was the first athlete to win an Olympic medal for Sri lanka.
Ans

1. Parami Wasanthi Maristela

- 2. Duncan White

X 3. Greshan Dananjaya
X 4. Susanthika Jayasinghe
Q. 9 In which year did Nepal adopt its first democratic constitution?

Ans
<1. 20102. 2015
<3. 2013
<4. 2017
Q. 10 Mario de Miranda was a $\qquad$ from the state of Goa.

Ans
(1. designer

2 2. vocalist

- 3. cartoonist
(4. poet
Q. 11 Which Indian sportsperson won a gold medal at the Para-badminton World Championship 2019?
Ans
Х 1. Deepa Malik

2. Devendra Jhajharia
(3. Suhas Lalinakere Yathiraj

- 4. Manasi Joshi
Q. 12 Which one of the following is a rare disease caused by the deficiency of Vitamin D that causes the bones to become soft and to bend?

Ans

1. Pernicious anemia
< 2. Atrophic gastritis
7 3 . Lupus

- 4. Rickets
Q. 13 What is the other name for 'transistor computer'?

Ans
1 1. First Generation Computer
2. Third Generation Computer

- 3. Second Generation Computer
\$4. Fourth Generation Computer
Q. 14 'Maimata' is a popular dance of the Kaloi community from the state of $\qquad$
Ans
X 1. Chattisgarh
X 2. Odisha
- 3. Tripura

X4.Assam
Q. 15 Annu Rani is the first Indian woman to cross a distance of 60 m in $\qquad$ throw.
Ans

- 1. javelin
< 2 . discus
X 3. Shot put
>4. hammer
Q. 16 The rivers Damodar, Brahmani and Kharkai originate from the state of $\qquad$ in India.

Ans1. Jharkhand

X
2. Madhya Pradesh

X 3. Chhattisgarh
> 4. Haryana
Q. $17 \ldots$ glands release tears from our eyes.

Ans $\quad$ 1. Thyroid
2 2. Adrenal
(3. Pituitary

- 4. Lacrimal
Q. 18 In which year was the Bombay Stock Exchange established?

Ans
< 1.1864
Х 2.1893

- 3.1875
< 4.1882
Q. 19 In January 2020, $\qquad$ has secured a top position among the 115 aspirational districts that received grading on a system devised by the NITI Aayog.
Ans
- 1. Sukma
\$ 2. Jagdalpur
< 3. Jashpur
(4. Gariaband
Q. 20 Who created FORTRAN - the first high-level computer programming language?

Ans
< 1. Dan Bricklin
\$ 2. Marc Andreessen
7 3. Larry Ellison
4. John Backus
Q. 21 In which year did the state of Himachal Pradesh come into existence?

Ans 1.1971
Х 2.1947
Х 3.1956
>4. 1965
Q. 22 'Sandalwood' is the state tree of $\qquad$
Ans

1. Madhya Pradesh

- 2. Karnataka
( 3. Punjab
(4. Rajasthan


## Q. 23 Which river is adored by some as 'the Ganga of the South'?

Ans
X 1. Narmada
X 2. Godavari

- 3. Kaveri

X4. Krishna
Q. 24 Which Indian sportsperson won the 'World Games Athlete of the Year' award in January 2020?
Ans

1. Rani Rampal

X 2. Mary Kom
X 3.PV Sindhu
4. Koneru Humpy

## Q. 25 Which of the following is the largest dental tissue?

Ans
-1. Dentin
< 2 . Pulp
X 3 . Enamel
(4. Root

