## Combined Higher Secondary Level Examination 2019 Tier I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 20/10/2020 |
| Exam Time | 10:00 AM - 11:00 AM |
| Subject | CHSL Tier 1 |

## Section : English Language (Basic Knowledge)

Q. 1 Select the INCORRECTLY spelt word.

Ans

X 2. Galley
$\checkmark$
3. Gallary4. Gallant
Q. 2 Select the correct passive form of the given sentence.

Gulliver easily pulled all the warships of the enemy after him.
Ans

1. All the warships of Gulliver were easily pulled by the enemy after him.
2. All the warships of the enemy were being easily pulled by Gulliver after him.
3. All the warships of the enemy had been easily pulled by Gulliver after him.
4. All the warships of the enemy were easily pulled by Gulliver after him.
Q. 3 Select the most appropriate word to fill in the blank in the given sentence.

Order was quickly $\qquad$ in the area after the scuffle between the two groups.
Ans
入 1. repaired
Х 2 . recovered
> 3. rebuilt
4. restored
Q. 4 Select the most appropriate ANTONYM of the given word.

CANDID
Ans

1. Devious
(2. Frank

X 3. Genuine
(4. Truthful

## 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.

During organised tours, tourists can visit a former Nazi compound 40 kilometres (1) $\qquad$ Berlin called the 'Forbidden City'. Twenty thousand people (2) $\qquad$ here every year to learn about Nazi military history. The Nazis (3) $\qquad$ militarily active at the compound, (4) $\qquad$ was kept secret in a forest and behind a fence. The Nazis (5) $\qquad$ much of World War II from here.

SubQuestion No: 5
Q. 5 Select the most appropriate option for blank number 1.

Ans
Х 1 in
< 2 into
>3.at

- 4 from


## 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.

During organised tours, tourists can visit a former Nazi compound 40 kilometres (1) $\qquad$ Berlin called the 'Forbidden City'. Twenty thousand people (2) $\qquad$ here every year to learn about Nazi military history. The Nazis (3) $\qquad$ militarily active at the compound, (4) $\qquad$ was kept secret in a forest and behind a fence. The Nazis (5) $\qquad$ much of World War II from here.

SubQuestion No : 6
Q. 6 Select the most appropriate option for blank number 2.

Ans
X 1. watch
X ${ }^{2}$. call
>3.roam

- 4. visit


## 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.

During organised tours, tourists can visit a former Nazi compound 40 kilometres (1) $\qquad$ Berlin called the 'Forbidden City'. Twenty thousand people (2) $\qquad$ here every year to learn about Nazi military history. The Nazis (3) $\qquad$ militarily active at the compound, (4)
$\qquad$ much of World War II from was kept secret in a forest and behind a fence. The Nazis (5) here.

SubQuestion No: 7

## Q. 7 Select the most appropriate option for blank number 3.

Ans

- 1. were

X 2 . was
X3.had
<4.are

## 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.

During organised tours, tourists can visit a former Nazi compound 40 kilometres (1) $\qquad$ Berlin called the 'Forbidden City'. Twenty thousand people (2) $\qquad$ here every year to learn about Nazi military history. The Nazis (3) $\qquad$ militarily active at the compound, (4)
$\qquad$ much of World War II from was kept secret in a forest and behind a fence. The Nazis (5) here.

SubQuestion No : 8
Q. 8 Select the most appropriate option for blank number 4.

Ans
入1. what
< 2 . who
X 3.whom4. which

## 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.

During organised tours, tourists can visit a former Nazi compound 40 kilometres (1) $\qquad$ Berlin called the 'Forbidden City'. Twenty thousand people (2) $\qquad$ here every year to learn about Nazi military history. The Nazis (3) $\qquad$ militarily active at the compound, (4)
$\qquad$ much of World War II from was kept secret in a forest and behind a fence. The Nazis (5) here.

SubQuestion No : 9
Q. 9 Select the most appropriate option for blank number 5.

Ans
(1. started

- 2. planned
- 3. carried
(4.fought
Q. 10 Select the most appropriate meaning of the given idiom.


## Make a beeline

Ans

1. Stand in a queue
(2. Remain busy

- 3. Go straight to

X4. Be crazy

## Q. 11 Select the word which means the same as the group of words given.

Flesh eating animal
Ans
Х 1. Insectivore
v 2. Carnivore
X 3. Omnivore
4 4. Herbivore
Q. 12 Select the INCORRECTLY spelt word.

Ans

- 1. Ambiteous
< 2. Curious
<3. Serious
<4. Gorgeous
Q. 13 Select the most appropriate meaning of the given idiom.

Look after
Ans
X 1. Scold
2. Resemble

- 3. Take care of

Х4. Search for
Q. 14 Select the most appropriate synonym of the given word.

RECONCILE
Ans
(1. Agitate
< 2. Scatter
(3. Refuse4. Resolve
Q. 15 Select the word which means the same as the group of words given.

A ruler with total power over a country, typically one who has obtained control by force
Ans
X1. Democrat
2 2. Protector
3. Traitor

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

I said to Kirti, "These plants will take about two months to flower."
Ans
X 1 . I told Kirti that those plants will be taking about two months to flower.
2. I told Kirti that these plants will take about two months to flower.3. I told Kirti that those plants would take about two months to flower.

X 4. I told Kirti that those plants take about two months to flower.
Q. 17 In the given sentence identify the segment which contains a grammatical error.

When the boys were playing the match, it suddenly starts raining.
Ans

- 1. starts raining

2. When the boys

X 3. were playing the match
(4. it suddenly
Q. 18 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

While my parents talked to the visitor, I made tea in the kitchen.
Ans

- 1. parents were talking

2. No improvement
( 3. parents have talked
3. parents are talking
Q. 19 Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
A. In December 2019, Typhoon Kammuri came to the Philippines.
B. They closed schools and evacuated hundreds of thousands of people from their homes.
C. Officials closed the international airport in the capital city of Manila for $\mathbf{1 2}$ hours.
D. It flooded streets and damaged many houses and power lines.

Ans

- 1. ADCB
> 2. CBDA
<3. CBAD
<4. ABCD
Q. 20 In the given sentence identify the segment which contains a grammatical error.

The publics are not satisfied with the new act.
Ans

- 1. The publics are

2. not satisfied
3. with the

X 4. new act
Q. 21 Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
A. The cable was thick as pack-thread, and the bars were the size of knitting needles.
B. Then I made fifty hooks by twisting three bars together at a time.
C. I ordered a great quantity of strong cable and bars of iron.
D. I twisted the cables together and made fifty strong cords.

Ans

- 1. CADB
< 2. ADCB
X 3. CABD
X4. ABDC
Q. 22 Select the most appropriate word to fill in the blank in the given sentence.

He $\qquad$ his studies even after leaving college and finally got a Ph.D. degree.
Ans
X 1 . carried
2. persisted
3.sought

- 4. pursued
Q. 23 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

After switching off the light, he went off to sleep.
Ans

1. switching off a light

- 2. No improvement

X 3. he has switched off the light
4. being switched off the light
Q. 24 Select the most appropriate synonym of the given word.

SALVAGE
Ans

1. Hurt
< 2 . Lose
X 3. Waste

- 4. Save
Q. 25 Select the most appropriate ANTONYM of the given word.

CONVENIENCE
Ans
X1. Enjoyment
2. Hindrance

Х 3. Assistance
X4. Satisfaction

## Section : General Intelligence

Q. 1 Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having ' 4 '.


Ans
<1.6
2. 3
$\times 3.1$
<4. 2
Q. 2 Select the correct equation when the signs ' + ' and ' $x$ ' and the numbers ' 4 ' and ' 8 ' are interchanged.

Ans

1. $2 \times 4+8=34$

X2. $4+8 \times 2=32$
X 3. $6+8 \times 4=38$
X4. $12 \times 4+8=34$
Q. 3 A paper is folded and cut as shown in the following figure. How will this paper look when unfolded?


Ans

Q. 4 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

## SEA

Ans
$\times 1$
$\checkmark 2$.
Aヨટ
$x=$ AES
x. SE
Q. 5 Study the given pattern carefully and select the letter that can replace the question mark (?) in it.


Ans
X1. S
X ${ }^{2}$. K

- $3 . \mathrm{J}$

X4. R
Q. 6 Select the number that can replace the question mark (?) in the following series.
$6,10,18,34$, ?
Ans
$\times 1.70$
X 2. 68

- 3.66
$\times 4.64$
Q. $7 A$ और $B, C$ के भाई हैं। $B, D$ और $E$ का पुत्र है। $D, F$ की पुत्री है। $P, E$ का ससुर है। $Q, F$ का पुत्र है। $A$ का $P$ से क्या संबंध है?
Ans
X 1. पुत्री

2. नाती
$X$ 3. पुत्र
X4. पिता
Q. 8 Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

Ans
$X 1$. Fluorine
$X$ 2. Iodine
$X$ 3. Bromine
4. Iron
Q. 9 Select the letter-cluster that can replace the question mark (?) in the following series.

BDF, DHL, FLR, ?
Ans
X 1. IQY
X 2. HPY
X 3. HOX

- 4. HPX
Q. 10 Four number triads have been given, out of which three are alike in some manner and one is different. Select the number triad that is different from the rest.
Ans
X 1. $(273,546,819)$
X 2. $(192,384,576)$
- 3. $(326,654,981)$

X4. $(291,438,657)$
Q. 11 'Myopia' is related to 'Eye' in the same way as 'Pyorrhea' is related to ' $\qquad$ $\therefore$
Ans
X 1. Stomach

- 2. Gums

X 3. Lung
(4. Brain
Q. 12 While writing all the natural numbers from 1 to 100 , how many times do we write 6 ?

Ans
X 1.19
X2. 21
X 3.18

- 4.20
Q. 13 In a certain code language, VICTORY is written as XGERQPA. How will KINDLE be written as in that language?

Ans
$X$ 1. SOWNEQ
X 2. IKLFJG
X 3. BEDRVH

- 4. MGPBNC
Q. 14 Which of the following options is NOT an example of a number triad with the following properties?

1. Sum of the digits of the third number is twice the sum of the digits of the first number.
2. Sum of the digits of the second number is thrice the sum of the digits of the first number.

Ans

- 1. $(200,600,300)$

X2. $(201,702,303)$
X 3. $(400,660,800)$
X4. $(111,207,222)$
Q. 15 Select the option that is related to the third number in the same way as the second number is related to the first number.
$29: 838:: 14: ?$
Ans
X 1.199
$\times 2.196$

- 3. 193

X4. 195
Q. 16 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.


Ans

Q. 17 Identify the number that does NOT belong to the following series.
$1,4,9,15,25,36$
Ans
X1. 9
$\times 2.4$

- 3.15
$\times 4.25$
Q. 18 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:

1. Most teachers are women.
2. Some women are managers.

## Conclusions:

I. Some managers are women.
II. Some teachers are managers.

Ans
$X$ 1. Both conclusions I and II follow.

- 2 Only conclusion I follows.
$X$ 3. Only conclusion II follows.
X 4. Neither conclusion I nor II follows.
Q. 19 In a certain code language, PARK is coded as 6739, ROAD is coded as 3574, POND is coded as 6584 and LANE is coded as 2781 . How will LORD be coded as in that language?
Ans
X 1.5304
$\times 2.7432$
$\times 3.5213$
- 4. 2534
Q. 20 Study the given pattern carefully and select the number that can replace the question mark (?) in it.

4 (15) $1 ; 7$ (22) $3 ; ?(57) 4$
Ans

1. 11

X2. 16
$\times 3.12$
$\times 4.14$
Q. 21 Select the option that is related to the third term in the same way as the second term is related to the first term.

Malaria : Parasite : : Stomach ulcers : ?
Ans
$X$ 1. Protozoa
X 2. Parasites
$X$ 3. Insects

- 4. Bacteria
Q. 22 Select the correct option in which the given figure is embedded. (Rotation is not allowed)


Ans

Q. 23 Observe the following diagram and answer the question.

Find the number of students who play any two of the three sports.


Ans
-1. 11
$\times 2.9$
$\times 3.15$
$\times 4.13$
Q. 24 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.
Ans
X 1. FX
X2. DP

- 3. ET

X4. CK
Q. 25 Find the number of triangles in the following figure.


Ans
$\times 1.12$
$\times 2.14$

- 3. 10
$\times 4.8$

Section : Quantitative Aptitude(Basic Arithmetic Skill)
Q. 1 If $\operatorname{Cos} 3 \theta=\operatorname{Sin}\left(\theta-34^{\circ}\right)$, then the value of $\theta$ as an acute angle is:

Ans
X1. $34^{\circ}$

- 2. $31^{\circ}$
$\times 3.56^{\circ}$
$\times 4.17^{\circ}$
Q. 2 Malti bought a TV for ₹ 8,800 including GST at $10 \%$. What is the original cost of the TV?

Ans
-1. ₹ 8,000
X 2. ₹ 8,800
X 3. ₹ 7,920
X4. ₹ 9,600
Q. 3 The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800 .


If 24 students playing cricket are shifted to Kabaddi, then find the new ratio of the number of students in Cricket to those in Kabaddi.
Ans
X 1. $30: 17$
X 2. $30: 13$

- 3. $31: 18$

X4. $31: 16$
Q. 4 A is a point at a distance 26 cm from the centre O of a circle of radius 10 cm . AP and AQ are the tangents to the circle at the point of contacts P and Q . If a tangent BC is drawn at a point R lying on the minor arc PQ to intersect AP at B and $A Q$ at $C$, then the perimeter of $\triangle A B C$ is:
Ans
X 1.40 cm

- 2. 48 cm
$\times 3.46 \mathrm{~cm}$
X 4.42 cm
Q. 5 Evaluate: $[7+7 \times(7+7 \div 7)]+7 \div 7$.

Ans
$\times 1.10$
$\times 2.5$
$\times 3.63$

- 4.64
Q. 6 If the difference between the compound interest and simple interest on a certain sum of money for three years at $10 \%$ p.a. is $₹ 558$, then the sum is:

Ans
X 1. ₹ 18,500

- 2. ₹ 18,000

X 3. ₹ 16,000
X4. ₹ 15,000
Q. 7 ABC is a right angled triangle, right angled at A . A circle is inscribed in it. The lengths of two sides containing the right angle are 48 cm and 14 cm . The radius of the inscribed circle is:

Ans
X1. 4 cm

- 2. 6 cm

X 3.8 cm
$\times 4.5 \mathrm{~cm}$
Q. 8 ABC and BDE are two equilateral triangles such that $D$ is the mid-point of $B C$. If the area of triangle $A B C$ is $136 \mathrm{~cm}^{2}$, then the area of triangle BDE is equal to:

Ans
X $1.36 \mathrm{~cm}^{2}$

- 2. $34 \mathrm{~cm}^{2}$
$\times 3.38 \mathrm{~cm}^{2}$
X4. $24 \mathrm{~cm}^{2}$
Q. 9 Study the given bar chart and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years


What was the approximate percentage increase in the production of fertilizers from 1998 to 1999 ?
Ans
$\times 1.50 \%$
X 2. $40 \%$

- 3. $44.4 \%$

X 4. $48.4 \%$
Q. 10 In an isosceles triangle $A B C$ with $A B=A C$ and $A D$ is perpendicular to $B C$, if $A D=6 \mathrm{~cm}$ and the perimeter of $\triangle A B C$ is

36 cm , then the area of $\triangle \mathrm{ABC}$ is:
Ans
X $1.45 \mathrm{~cm}^{2}$

- 2. $48 \mathrm{~cm}^{2}$
$\times 3.54 \mathrm{~cm}^{2}$
X4. $64 \mathrm{~cm}^{2}$
Q. 11 The salaries of Vipin and Dinesh are in the ratio $5: 8$. If the salary of each is increased by $₹ 4,800$, then new ratio becomes $7: 10$. What is Vipin's salary?
Ans
- 1. ₹ 12,000

X 2. ₹ 10,000
X 3. ₹ 13,000
X4. ₹ 12,500
Q. 12 Study the given and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years


The average production in 2000 and 2001 was less than the average production of which of the following pairs of years ?

Ans

- 1. 2001 and 2002

X 2. 1996 and 1997
X 3. 1997 and 1998
X4. 1999 and 2000
Q. 13 The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800 .


What is the average number of students enrolled in Hockey and Tennis together?
Ans
X1. 460
$\times 2.540$
$\times 3.580$

- 4. 560
Q. 14 The average of nine 2 digit numbers is decreased by 6 when the digits of one of the 2 digit numbers is interchanged. Find the difference between the digits of that number.
Ans
-1. 6
$\times 2.4$
$\times 3.2$
$\times 4.8$
Q. 15 If $\sqrt{3} \cos \theta=\sin \theta$, then the value of $\frac{4 \sin ^{2} \theta-5 \cos \theta}{3 \cos \theta+1}$ is:

Ans
$\times 1 . \frac{1}{4}$
$\checkmark$
2. $\frac{1}{5}$
$\times 3.5$
$\times 4 . \frac{2}{5}$
Q. 16


Ans
X 1.10

- 2.0

X 3.15
$\times 4.1$
Q. 17 The difference of two positive numbers is 1020 . If $7.6 \%$ of the greater number is $12.4 \%$ of the smaller number, then the sum of the two numbers is equal to:

Ans
X 1.3250

- 2. 4250

X 3. 4520
$\times 4.3520$
Q. 18 An article was sold at a loss of $12 \%$. If it was sold for $₹ 630$ more, then there would have been a gain of $6 \%$. Find the cost price of the article.

Ans $\times 1$. $₹ 2,800$
X 2. ₹ 3,000
X 3. ₹ 2,500
4. ₹ 3,500
Q. 19 If $x^{3}+y^{3}=16$ and $x+y=4$, then the value of $x^{4}+y^{4}$ is:

Ans
-1. 32
$\times 2.64$
$\times 3.30$
$\times 4.48$
Q. 20 Rahul and Mithun travel a distance of 30 km . The sum of their speeds is $70 \mathrm{~km} / \mathrm{h}$ and the total time taken by both to travel the distance is 2 hours 6 minutes. The difference between their speeds is:

Ans
-1. $30 \mathrm{~km} / \mathrm{h}$
X2. $25 \mathrm{~km} / \mathrm{h}$
X 3. $20 \mathrm{~km} / \mathrm{h}$
X4. $35 \mathrm{~km} / \mathrm{h}$
Q. 21 A and B together can complete a piece of work in 15 days. B and C together can do it in 24 days. If A is twice as good a workman as C , then in how many days can B alone complete the work?
Ans
X 1. 40 days

- 2. 60 days

X 3. 52 days
X4. 45 days
Q. 22 If $x \sin ^{3} \theta+y \cos ^{3} \theta=\sin \theta \cos \theta$ and $x \sin \theta=y \cos \theta$, then the value of $x^{2}+y^{2}$ is:

Ans
入1. 0
$\times 2.4$

- 3.1

X4. 2
Q. 23 If 4 M37094267N is divisible by both 8 and 11 , where $M$ and $N$ are single digit integers, then the values of $M$ and $N$ are:

Ans
$X 1 . M=5, N=6$
X2. $\mathrm{M}=2, \mathrm{~N}=5$
-3. $\mathrm{M}=5, \mathrm{~N}=2$
X4. $\mathrm{M}=5, \mathrm{~N}=4$
Q. 24 If $\frac{4}{3}\left(x^{2}+\frac{1}{x^{2}}\right)=110 \frac{2}{3}$, find $\frac{1}{9}\left(x^{3}-\frac{1}{x^{2}}\right)$, where $x>0$.

Ans
-1. 84
X2. 85
$\times 3.74$
$\times 4.76$
Q. 25 If 3.96 cubic dm of lead is to be drawn in to a cylindrical wire of diameter 0.6 cm , then the length of the wire (in metres), is:
Ans
X 1.130 m
X 2.125 m

- 3. 140 m

X 4.120 m
Q. 1 Which Article of the Constitution of India states the directive principles of state policy on 'promotion of international peace and security'?
Ans
2. Article 51

X 3 . Article 69
(4.Article 62
Q. 2 Who is the first IPS officer to be honoured with Tenzing Norgay National Adventure Award?

Ans
X 1. Sanjukta Parashar

- 2. Aparna Kumar

Х3. R Sreelekha
(4. Roopa Moudgil
Q. 3 Who is the first Indian American to become Governor of State of USA?

Ans
2. John Tyler
3. Shankara Kurup

- 4. Bobby Jindal
Q. 4 Transistors belong to which of the following generation of the computers?

Ans
X 1 . First
v 2. Second
>3. Third
(4. Fourth

## Q. 5 Which of the following is the basic SI unit of thermo dynamic temperature?

Ans
< 1. Mole
< 2. Candela
© 3. Metre

- 4. Kelvin


## Q. 6 Related area of Golden Revolution is:

Ans
X 1 . Eggs
< 2 . Oilseeds

- 3 . Fruits
<4. Fish
Q. 7 Which of the following sites of Indus valley civilization is not on the bank of river Indus?

Ans
X 1. Chanhudaro
(2. Mohenjodaro

- 3. Ropar
(4.Kot-Diji
Q. 8 Who among the following won the World Badminton championship title in 2019?

Ans
X 1. Tai Tzu Ying
X 2. Nazomi 0 Kuhara

- 3. P.V Sindhu
(4. Carolina Masin


## Q. 9 Which state does not share its boundary with Myanmar?

Ans
X 1. Mizoram

- 2. Sikkim
(3. Manipur
(4. Arunachal Pradesh
Q. 10 Which of the following is a group of bacteria found in human intestines, whose presence in water indicates contamination by disease-causing microorganisms?
Ans
Х 1. Streptococcus
X 2. Pseudomonas
X 3. Clostridium

4. Coliform
Q. 11 Which of the following is the base year of a new WPI series effective from April 2017?

Ans
X 1. 2010-11
> 2. 2013-14
X 3. 2012-13
ง $4.2011-12$
Q. 12 Who had proposed the motto of Olympics?

Ans
入1. Didon
2. Pierre de Coubertin

X 3. Hirohito
<4. Moon Jae-in
Q. 13 Which state in India was the first to introduce the 'Mid-day Meal Scheme' for school children?

Ans
X 1. Maharashtra
< 2. Gujarat

- 3. Tamil Nadu

4 4. Kerala
Q. 14 Which of the following observations DOES NOT help in determining whether a chemical reaction has taken place?
Ans
v 1. Change in height
X 2. Change in colour
3. Change in state
\$4. Evolution of a gas
Q. 15 'Khuang' is a traditional musical instrument of which state?

Ans
X 1. Jharkhand
Х 2. West Bengal
< 3. Assam

- 4. Mizoram
Q. 16 Which Article of the Constitution deals with formation of New States?

Ans
< 1. Article 4
2. Article 2
3. Article 5
4. Article 3
Q. 17 When was the Human Development Report first published?

Ans
< 1.1980
<2. 2000

- 3.1990
<4. 1981


## Q. 18 Pasi Kongki is folk dance of which state?

Ans
X 1. Haryana
X 2. Goa
X3. Kerala
4. Arunachal Pradesh
Q. 19 Who among the following drafted Article 370 of the Constitution of India?

Ans
(1. Jawaharlal Nehru
(2. Bhim Rao Ambedkar

- 3. Gopalaswami Ayyangar

X 4. Raghubar Das
Q. 20 Who proposed Wardha Scheme or Basic Education?

Ans
X 1. Bal Gangadhar Tilak

- 2. Mahatma Gandhi

Х 3. Sardar Vallabhbhai Patel
(4. Jawaharlal Nehru

## Q. 21 Which is the source of Krishna river?

Ans
< 1. Multai
< 2. Tala3. Mahabaleshwar
<4. Amarkantak

## Q. 22 Who is the author of the Ben-Hur : A Tale of the Christ?

Ans
X 1. Lewis Carroll
2. Jules Verne
< 3. Ben Jonson
4. Lew Wallace

## Q. 23 Which of the following is not a softcopy devices?

Ans

- 1. Plotter

2. Projector

Х3. Monitor
4. Speaker
Q. 24 Former finance minister Arun Jaitley passed away in which month of 2019?

Ans

- 1. August

X 2. June
X 3. October
(4. May

## Q. 25 On which date International Day of Biological Diversity is celebrated?

Ans
X1.22nd June
X 2. 20th May
X 3.17th May
4. 22nd May

## Combined Higher Secondary Level Examination 2019 Tier I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 20/10/2020 |
| Exam Time | 1:00 PM - 2:00 PM |
| Subject | CHSL Tier 1 |

## Section : English Language (Basic Knowledge)

Q. 1 Identify the segment in the given sentence which contains the grammatical error.

Soni take her daughter to the park in the evening in a stroller.
Ans
Х 1. to the park
2 2. in a stroller

- 3. Soni take her daughter

4. in the evening
Q. 2 Select the INCORRECTLY spelt word.

Ans

- 1. Unpretensious

Х 2 . Excellence
3. Recurrent

X4. Dilemma
Q. 3 Select the word which means the same as the group of words given.

A type of magic in which spirits, especially evil ones, are used to make things happen
Ans
1 1 . Chemistry
X 2 . Mimicry
3. Sorcery

X 4. Alchemy
Q. 4 Select the most appropriate option to fill in the blank in the given sentence.

We must not take the future for granted; rather, we should enjoy the $\qquad$ joys of our humdrum lives.

Ans
< 1. average

- 2. everyday
\$ 3. future
7 4. habitual


## 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.

One of the reasons we fail to talk convincingly about climate change is that we present it as something "out there". We (1) $\qquad$ to make it clear (2) $\qquad$ it's linked to (3) $\qquad$ daily decisions, such as walking (4) $\qquad$ driving, and not talk about it in (5) $\qquad$ of abstractions.

SubQuestion No: 5
Q. 5 Select the most appropriate option to fill in blank number 1.

Ans

- 1. need
$X^{2}$.use
> 3. keep
(4.know


## 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.

One of the reasons we fail to talk convincingly about climate change is that we present it as something "out there". We (1) $\qquad$ to make it clear (2) $\qquad$ it's linked to (3) $\qquad$ daily
decisions, such as walking (4) $\qquad$ driving, and not talk about it in (5) $\qquad$ of abstractions.

SubQuestion No : 6
Q. 6 Select the most appropriate option to fill in blank number 2.

Ans
Х 1 . so
> 2 if
(3.then

- 4. that


## 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.

One of the reasons we fail to talk convincingly about climate change is that we present it as something "out there". We (1) $\qquad$ to make it clear (2) $\qquad$ it's linked to (3) $\qquad$ daily
decisions, such as walking (4) $\qquad$ driving, and not talk about it in (5) $\qquad$ of abstractions.

SubQuestion No: 7

## Q. 7 Select the most appropriate option to fill in blank number 3.

Ans

< 2 . their
X 3.those
X4.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.

One of the reasons we fail to talk convincingly about climate change is that we present it as something "out there". We (1) $\qquad$ to make it clear (2) $\qquad$ it's linked to (3) $\qquad$ daily decisions, such as walking (4) $\qquad$ driving, and not talk about it in (5) $\qquad$ of abstractions.

SubQuestion No : 8

## Q. 8 Select the most appropriate option to fill in blank number 4.

Ans


## 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.

One of the reasons we fail to talk convincingly about climate change is that we present it as something "out there". We (1) $\qquad$ to make it clear (2) $\qquad$ it's linked to (3) $\qquad$ daily decisions, such as walking (4) $\qquad$ driving, and not talk about it in (5)___ of abstractions.

SubQuestion No: 9
Q. 9 Select the most appropriate option to fill in blank number 5.

Ans
X 1. words
$\checkmark$
2. terms
3. things
(4.voices
Q. 10 Select the word which means the same as the group of words given.

A deep fissure in the earth's surface
Ans
入 1. Volcano

- 2. Chasm

X 3. Earthquake
<4. Tremor
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 improvement.

Have you got confirmation of the receipt of the donation?
Ans
1 1. Has you got confirmations

- 2. No improvement

3. Did you got confirmation
4. Have you get confirmation
Q. 12 Select the most appropriate option to fill in the blank in the given sentence.

A literature festival on the beach: With waves crashing on the beach, the Kerala Literature Festival got $\qquad$ in Kozhikode with a range of panel discussions in English and
Malayalam.
Ans
Х 1. away

- 2. underway

X 3. wayward
(4. apart
Q. 13 Select the option that is the passive form of the given sentence.

This book explores the secret of leading a long and meaningful life.
Ans

1. The secret of leading a long and meaningful life is explored in this book.

X 2. The secret of leading a long and meaningful life was being explored by this book.
Х 3. The secret of leading a long and meaningful life have been explored by this book.
4. The secret of leading a long and meaningful life had been explored by this book.
Q. 14 Select the most appropriate synonym of the given word.

MOTIF
Ans

1. Design
(2. Reason

X 3. Purpose
(4. Creation
Q. 15 Select the most appropriate meaning of the underlined idiom in the given sentence.

Have you heard the news that Hema is looking for greener pastures?
Ans
1 1. has been transferred
2. was feeling rejected
3. exploring new opportunities

Х 4. has been fired
Q. 16 Select the most appropriate ANTONYM of the given word.

EXPUNGE
Ans
(1. Remove

- 2 . Insert

3 . Deplete
X 4. Exhaust
Q. 17 Given below are four jumbled sentences. Select the option that gives their correct order.
A. The father then wanted his son to pick him up at four in the afternoon so that they could go home together.
B. A teenager had just passed his driving test and was eager to drive his father's car.
C. He asked his son to drop him at a place that was some 18 miles from home before he took the car for servicing.
D. His father agreed.

Ans

- 1. BDCA

X2. ADBC
Х 3 . CBAD
Х4. BCAD
Q. 18 Select the most appropriate meaning of the underlined idiom in the given sentence.

Ashutosh kept a stiff upper lip even when he was reprimanded in the presence of clients.
Ans1. remained expressionless
2. started sniggering

X 3. behaved insolently
Х 4. kept shouting
Q. 19 Select the correctly spelt word.

Ans $\times$ 1. Recquirement
X 2. Exquiste

- 3. Acquaintance
(4. Squirrell
Q. 20 Identify the segment in the given sentence which contains the grammatical error.

The wedding reception will be hosted in Mumbai at a late date.
Ans

1. in Mumbai
2. will be hosted

- 3. at a late date

4. The wedding reception
Q. 21 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

The book's page seem to have been torn by someone.
Ans

- 1. The book's page seems

2. The page of the book was seems
3. The page of the book has seem
(4. No improvement

## Q. 22 Select the option that is the direct form of the given sentence.

Explaining her work she said that she made films for posterity to remember.
Ans

1. Explaining her work, she said, "She makes films for posterity to remember."
2. Explaining her work, she said, "I will make the films that will remember posterity."

X 3. Explaining her work, she said, "She made films for posterity to remember."
4. Explaining her work, she said, "I make films for posterity to remember."
Q. 23 Select the most appropriate ANTONYM of the given word.

APEX
Ans

1. Force2. Asset3. Base

X4. Pinnacle
Q. 24 Select the most appropriate synonym of the given word.

ACCRUE
Ans

1. Range
2. Variety

- 3. Collect

X 4. Spread
Q. 25 Given below are four jumbled sentences. Select the option that gives their correct order.
A. In reality, however, we exist in compartments, separated by walls of caste, religion, and geography.
B. But we find that ignorance levels are growing as well because the rate at which we are accumulating information is not commensurate with the rate at which our awareness is growing.
C. Technologically we live in a borderless world.
D. Another paradox is that we take pride in describing ourselves as a knowledge-based society.
Ans
>1. ABDC

- 2. CADB
<3. CBAD
>4. BADC

Section: General Intelligence
Q. 1 In a certain code language, DEAF is written as 'HJGM'. How will CALM be written as in that language?

Ans
X 1. E B XY

- 2. GFRT
$X$ 3. F B XY
X4. GCYZ
Q. 2 Select the option in which the given figure is embedded. (Rotation is not allowed)


Ans

Q. 3 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. 4 Identify the number that does NOT belong to the following series.

81, 54, 36, 27, 22
Ans
$\times 1.54$
$\times 2.27$
X 3.36

- 4.22
Q. 5 Select the option that is related to the third number in the same way as the second number is related to the first number.
$132: 156:: 462: ?$
Ans
$X 1.505$
X2. 484
$\times$ 3. 503
- 4. 506
Q. 6 Select the option in which the words share the same relationship as that shared by the given pair of words.

Distance : Kilometers
Ans

- 1. Volume : Liters
$X$ 2. Weight : Scale
X 3. Fame: Television
X 4. Bushel : Corn
Q. 7 Select the Venn diagram that best represents the relationship between the following classes.

Physics, Science, Biology, Zoology
Ans
$\times 1$.

$-2$.

$>3$

$>4$

Q. 8 In a certain code language, BOOK is coded as 139 and PEN is coded as 302 . How will COPY be coded as in that language?

Ans
X1. 167
$\times 2.279$

- 3. 2822

X4. 2547
Q. 9 Find the number of squares in the following figure.


Ans
$\times 1.12$

- 2. 17
$\times 3.13$
$\times 4.16$
Q. 10 Select the correct sequence of the following words (based on inside to outside of the reproductive system of a flower).

1. Ovary
2. Stigma
3. Ovule
4. Petal

Ans
X $1.3,2,1,4$

- 2. $3,1,2,4$

X 3. 4, 3, 2, 1
X4.2,1,3,4
Q. 11 A person is employed to a company on a salary of $₹ 6,000$ per month. Throughout the year, he remained absent from work for 15 days. If ₹200 gets deducted for every single holiday, then how much money will he earn at the end of the year?
Ans
X 1. ₹ 70,000

- 2. ₹ 69,000

X 3. ₹ 72,000
X4. ₹ 75,000
Q. 12 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.


Ans

Q. 13 G is the grandfather of S. B has only two sons E and F. A and B are the only sons of G. Who is the father of S?

Ans
X1.F
X 2. B
X 3.E
4. A
Q. 14 Select the option figure that can replace the question mark in the following series.

| $\bullet \circ$ | $\bullet \circ \bullet$ | $\bullet \circ \bullet \circ \bullet$ | $\bullet \circ \bullet \circ \bullet \circ \bullet$ | ??? |
| :--- | :---: | :---: | :---: | :---: |

Ans
X $1 . \bullet \circ \bullet \bullet \circ \bullet \bullet$

- $2 . \bullet \circ \bullet \bullet \circ \bullet \circ \bullet$

X 3. $\bullet \bullet \bullet \bullet \circ \bullet$
X4. $\bullet \circ \bullet \bullet \bullet \bullet \bullet$
Q. 15 Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

Ans
X 1. Biomass
X 2. Coal
X 3. Natural Gas

- 4. Nuclear Fuel
Q. 16 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.
Ans
$X 1$ HGIFJ
X 2. DCEBF
- 3. TUSVR

X4. RQSPT
Q. 17 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$\mathrm{abb}_{-} \mathrm{b}_{--} \mathrm{bab} \mathrm{C}_{-} \mathrm{babbb} \mathrm{b}_{\ldots}$
Ans
X1. babbaab
2. abbabab

X 3. abbaaab
X4. abbaabb
Q. 18 Select the option that is related to the third term in the same way as the second term is related to the first term.

Longest day : June : : Shortest day : ?
Ans
$X$ 1. February
X 2. November
3. December

X 4. January
Q. 19 Select the box (figures 1 to 4) that can be formed by folding the given sheet along the lines.



4

Ans
$X 1$. Only figures 1 and 2
$X 2$. Only figures 3 and 4

- 3. Only figure 4
$\times 4$. Only figure 2
Q. 20 Select the number that can replace the question mark (?) in the following series.
$2,3,6,15, ?, 157.5,630$
Ans
X1. 48
Х2. 54
Х3. 49
ง 4.45
Q. 21 Read the given statements carefully. Assuming that the information given in the statements is true, decide which of the given conclusions is correct based on the statements.


## Statements:

1. Ram goes to mathematics class on Monday.
2. He attends literature classes on Friday.
3. He goes to guitar classes the day before he goes to history classes.
4. He attends history classes 2 days before literature classes.

Ans

1. Ram goes to guitar classes on Tuesday.

X 2. Ram goes to guitar classes on Sunday.
$X$ 3. Ram attends history classes on Saturday.
X 4. Ram goes to guitar classes on Saturday.
Q. 22 Select the option that is related to the third number in the same way as the second number is related to the first number.
$14: 182:: 22: ?$
Ans
X 1.482

- 2. 462

Х3. 444
X4. 244
Q. 23 What will be the value of ' $a+b$ ' in the following equation?
$[4(3+\{9 \times 6 \div 3+\{12 \div(1 \div 1 \times 3)\}\})]=5^{a} \times 2^{b}$
Ans $\times 1.7$
X2. 6
$\times 3.5$

- 4.4
Q. 24 In a certain code language, MENTION is written as NEITNOM. How will PATTERN be written as in that language?

Ans $\times 1$. DOEECTS

- 2. NAETTRP
$\chi$ 3. LSOIANN
X 4. RESWNDU
Q. 25 Four number-sets have been given below, out of which three are alike in some manner and one is different. Select the number-set that is different from the rest.
Ans
X $1 .(35,81,173)$
X 2. $(71,108,182)$
- 3. $(84,116,181)$

X4. $(44,89,179)$

Section : Quantitative Aptitude(Basic Arithmetic Skill)
Q. 1

If $x+\frac{1}{x}=5, x \neq 0$ then the value of $\frac{x^{4}+\frac{1}{x^{2}}}{x^{2}-3 x+1}$ is equal to:
Ans 55
$\times 2.60$
$\times 3.65$
$\times 4.50$
Q. 2 Amit sold an article for $₹ 7,000$ and incurred a loss. Had he sold it for $₹ 8,750$, his gain would have been three-fourth of the amount of loss that he incurred. At what price should he sell the article to get $10 \%$ profit?
Ans
X 1 . ₹ 7,800
X 2. ₹ 8,400

- 3. ₹ 8,800

X4. ₹ 8,000
Q. 3 Study the following pie-chart and answer the given question.

The pie-chart shows Budget Expenditure of a company in the year 2018 (percentage distribution) on different heads A, B, C, D \& E.


If ₹ 165 crore were spent in year 2018 on A , what would have been the total expenditure for that year (in ₹ crores)?
Ans
X 1. ₹320
X 2. ₹ 400
X 3. ₹ 350

- 4. ₹ 300
Q. 4 A trader marks his goods in such a way that even after allowing $15 \%$ discount on marked price he still gains $27.5 \%$. If the cost price of the goods is $₹ 200$, then its marked price is:

Ans

- 1. ₹300

X 2. ₹ 250
X 3. ₹ 400
X 4. ₹ 350
Q. 5 If $\theta$ is a positive acute angle and $\tan 2 \theta \tan 3 \theta=1$, then the value of $\theta$ is:

Ans
$\times 1.45^{\circ}$

- $2.18^{\circ}$
$\times 3.60^{\circ}$
$\times 4.36^{\circ}$
Q. 6 There is a $60 \%$ increase in an amount in 5 years at simple interest. What will be the compound interest on $₹ 6,250$ for two years at the same rate of interest, when the interest is compounded yearly?
Ans
- 1. ₹ 1,590

X 2. ₹ 1,560
X 3. ₹ 1,500
X4. ₹ 1,480
Q. 7 A and B working together can do $30 \%$ of the work in 6 days. B alone can do the same work in 25 days. How long will A alone take to complete the same work?
Ans
$X 1.75$ days
X2. 60 days
X 3. 80 days

- 4. 100 days
Q. 8 If $x=3+2 \sqrt{2}$, then the value of $x^{2}+\frac{1}{x^{2}}$ is:

Ans
X1. 30
$\times 2.36$
$\times 3.32$
4. 34
Q. 9 In $\triangle \mathrm{ABC}$, D is a point on BC . If $\frac{A B}{A C}=\frac{B D}{D C}, \angle B=75^{\circ}$ and $\angle C=45^{\circ}$, then $\angle B A D$ is equal to:

Ans
$\times 1.50^{\circ}$

- 2. $30^{\circ}$

X $3.60^{\circ}$
X4. $45^{\circ}$
Q. 10 Two concentric circles form a ring. The inner and outer circumferences of the ring are 22 cm and 44 cm , respectively.

The width of the ring is: (take $\pi=\frac{22}{7}$ )
Ans

1. 3.5 cm

X 2.1 .5 cm
X 3.2 .5 cm
X4. 3 cm
Q. 11 If $\sin (A+B)=\cos (A-B)=\frac{\sqrt{3}}{2}$ and $A$ and $B$ are acute angles. The measures of angles $A$ and $B$ (in degrees) will be:

Ans
-1. $\mathrm{A}=45$ and $\mathrm{B}=15$
X2. $\mathrm{A}=45$ and $\mathrm{B}=45$
X 3. $\mathrm{A}=15$ and $\mathrm{B}=45$
X 4. $\mathrm{A}=60$ and $\mathrm{B}=30$
Q. 12

The value of $\frac{4}{5} \div 3 \frac{1}{4}$ of $\frac{8}{13}-\frac{\frac{1}{5}-\frac{1}{8}}{\frac{1}{5}+\frac{1}{8}} \times 5 \frac{1}{5}+\frac{5}{6}$ is
Ans
X1. $\frac{2}{15}$
<2. $\frac{7}{30}$
X3. $\frac{1}{15}$

- 4. $\frac{1}{30}$
Q. 13 A study was made for the number of persons of different age group visited in a library in a week which is shown in the histogram. Study the histogram and answer the question given below.


The ratio of the number of persons in the age groups $15-20$ years and 20-25 years together, to the number of persons in the age groups $30-35$ years and $35-40$ years together, is:
Ans

- 1. $14: 9$

X2.14:17
$\times$ 3.13:9
X4.15:19
Q. 14 study the following pie-chart and answer the given question.

The pie-chart shows the Budget Expenditure of a company in the year 2018 (percentage distribution) on different heads A, B, C, D \& E.


The central angle of the sector representing expenditure on head D is:
Ans
$\times 1.45^{\circ}$
$\times 2.52^{\circ}$
$\times 3.56^{\circ}$

- $4.54^{\circ}$
Q. 15 In $\triangle \mathrm{ABC}, \mathrm{E}$ and D are points on sides AB and AC , respectively, such that $\angle A B C=\angle A D E$. If $\mathrm{AE}=6 \mathrm{~cm}, \mathrm{AD}=4 \mathrm{~cm}$ and $E B=4 \mathrm{~cm}$, then the length of $D C$ is:

Ans

- 1.11 cm
$\times 2.8 \mathrm{~cm}$
$\times 3.9 .5 \mathrm{~cm}$
$\times 4.10 \mathrm{~cm}$
Q. 16 Ravinder invests $₹ 3,750$ which is equal to $15 \%$ of his monthly salary in a medical insurance policy. Later he invests $25 \%$ and $8 \%$ of his monthly salary on a child education policy, and mutual funds, respectively. The total amount left with him is:
Ans
X 1. ₹ 15,000
X 2. ₹ 12,000
X 3. ₹ 8,000
- 4. ₹ 13,000
Q. 17 If the 8 -digit number $43 A 5325 B$ is divisible by 8 and 9 , then the sum of $A$ and $B$ is equal to:

Ans
X 1.12
X2. 18

- 3.14

X4.15
Q. 18 Study the following histogram and answer the given question.

A study was made for the number of persons of different age group visited in a library in a week which is shown in given in the histogram. Study the histogram and answer the question given below.


What percent of the total number of persons visiting library in the week was the number of persons of age group 25-30 years?

Ans
<1. $12 \%$
X 2. $15 \%$
ง $3.12 .5 \%$
X 4. 10.5\%
Q. 19 When $50 \%$ of a number A is added to B, the second number B increases by $25 \%$. The ratio between the numbers A and $B$ is:
Ans
X1.3:2
X2. $2: 3$

- 3. $1: 2$

X4.3:4
Q. 20 If PA and PB are tangents drawn from an external point P to a circle with centre O such that $\angle A P B=70^{\circ}$, then $\angle O A B$ is equal to:

Ans
$\times 1.40^{\circ}$
$\times 2.25^{\circ}$
$\times 3.30^{\circ}$
4. $35^{\circ}$
Q. 21 If $x+\frac{4}{x}-4=0$, then the value of $x^{2}-4$ is equal to:

Ans
X1. 2
$\times 2.4$

- 3.0
$\times 4.1$
Q. $22 \mathrm{~A}, \mathrm{~B}$ and C are three points on the circle. If $\mathrm{AB}=\mathrm{AC}=7 \sqrt{2} \mathrm{~cm}$ and $\angle B A C=90^{\circ}$, then the radius is equal to:

Ans
X 1.14 cm

- 2. 7 cm

⒊ $7 \sqrt{2} \mathrm{~cm}$
$\times 4.6 \mathrm{~cm}$
Q. 23 A man travelled a distance of 35 km in 5 hours. He travelled partly on foot at the rate of $4 \mathrm{~km} / \mathrm{h}$ and the rest on bicycle at the rate of $9 \mathrm{~km} / \mathrm{h}$. The distance travelled on foot is:
Ans

1. 8 km
$\times 2.12 \mathrm{~km}$
X 3. 10 km
X 4.15 km
Q. 24 The average of four consecutive odd natural numbers is eight less than the average of three consecutive even natural numbers. If the sum of these three even numbers is equal to the sum of above four odd numbers, then the average of four original odd numbers is:
Ans
X1. 36

- 2. 24
$\times 3.18$
$\times 4.32$
Q. 25

If $\cot \theta=\frac{3}{\sqrt{5}}, 0^{\circ}<\theta<90^{\circ}$, then the value of $\frac{6 \sec ^{2} \theta-\frac{5}{3} \operatorname{cosec}^{2} \theta}{\frac{3}{5} \sec ^{2} \theta+\frac{4}{3} \operatorname{cosec}^{2} \theta}$, is equal to:
Ans
$\times 1 \frac{2}{3}$

- 2.1
$\times 3 . \frac{1}{2}$
$\times 4 . \frac{1}{3}$


## Section : General Awareness

Q. 1 'Wings India', Asia's largest civil aviation event, will be held at Begumpet airport, Hyderabad in March 2020. What will be the theme of this event?
Ans

- 1. Flying for All

2. Born to Fly

3 3. Flying Everyone
X 4. Women to Fly

## Q. 2 Which scientist won the Nobel prize in Physics in 1918 for the discovery of 'Energy Quanta'?

Ans $\quad$ 1. Louis de Broglie
2. Werner Heisenberg
( 3. James Chadwick

- 4. Max Karl Ernst Ludwig Planck
Q. 3 Which of the following rivers is the fifth largest river and the largest west flowing river?

Ans 1. Narmada river
Х 2. Arvari river
(3. Godavari river

Х 4. Subarnarekha river
Q. 4 'A Shot At History: My Obsessive Journey to Olympic Gold' is the autobiography of which Indian shooter?

Ans
(1. Rajyavardhan Singh Rathore
< 2. Jitu Rai

- 3. Abhinav Bindra
< 4. Gagan Narang
Q. 5 The famous cultural site Rani-ki-Vav (the Queen's Stepwell) is situated on the banks of which river?

Ans

- 1. Saraswati River
< 2. Yamuna River
(3. Hooghly River
(4. Mahanadi
Q. 6 Who is India's youngest IAS officer to be appointed to the Chief Minister's Office of Telangana? She/he is also known as 'The People's Officer'.
Ans
< 1. Ansar Ahmad Shaikh2. Amrutesh Aurangabadkar
- 3. Smita Sabharwal4. Swati Meena Naik
Q. 7 The definition of 'money bills' is given in which article of the Constitution of India?

Ans

- 2. Article 110
< 3. Article 33
< 4. Article 93
Q. 8 Which wildlife sanctuary is a tri-state protected area in northern India? It is also famous for the Critically Endangered gharial, the red-crowned roofed turtle and the Endangered Ganges river dolphin?

Ans

- 1. National Chambal Sanctuary
(2. Chinnar Wildlife Sanctuary
< 3. Dandeli Wildlife Sanctuary
(4. Bhadra Wildlife Sanctuary
Q. 9 In November 2019, which Indian athlete was listed in 'Time 100 Next' that spotlights 100 rising stars who are shaping the future of business, entertainment, sports, politics, etc.?
Ans
(1. Anju Bobby George
(2. PV Sindhu
- 3. Dutee Chand

入 4. Hima Das
Q. 10 Who created history by securing Gold in the women's Singles SL3 event at the 'BWF ParaBadminton World Championships' in 2019?
Ans
Х 2. Sujirat Pookkham
Х 3. Parul Dalsukhbhai Parmar
4 4. Sarina Satomi
Q. 11 Which of the following dance forms is also known as the 'Royal Dance of Ladakh'?

Ans

1. Yak dance
2. Jabro dance
3. Shondol dance

Х 4. Koshan dance
Q. 12 Which of the following movements was started in the year 1930 by Mahatma Gandhi?

Ans
Х 1. Non-Cooperation Movement

- 2. Civil Disobedience Movement

3. Khilafat Movement

X 4. Quit India Movement
Q. 13 Where did the Chief Minister of Odisha, Naveen Patnaik, inaugurate the National Tribal Craft Mela-2019?

Ans
Х 1. Cuttack2. Bhubaneswar

X ${ }^{\text {. Puri }}$
X 4. Konark
Q. 14 As of January 2020, what was the upper limit of fund transfer using Unified Payments Interface (UPI)?
Ans

1. ₹1 lakh
2. ₹2 lakh
3. ₹50,000
<4. ₹90,000
Q. 15 Which of the following is the chemical formula for Nitre (saltpeter)?

Ans
入 $1 . \mathrm{KCl} . \mathrm{MgCl}_{2}$

- $2 . \mathrm{KNO}_{3}$
<3. KCl
<4. $\mathrm{KAl}_{2} \mathrm{O}_{3}$
Q. 16 Which of the following mountains is situated near the Siachen region of Ladakh in India?

Ans

1. Kirat Chuli Mountain
2. Kabru Mountain
3. Kangchenjunga Mountain

- 4. K12 Mountain
Q. 17 In the context of computers, WORM is an acronym of:

Ans

- 1. Write Once, Read Many
\$ 2. Wireless Operating, Read Module

3. Word Optical, Recognition Malware
4. Word On, RAM Memory
Q. 18 Which country honoured Indian Prime Minister Narendra Modi with its highest civilian
honour 'Zayed Medal' in 2019?
Ans
\$ 1. Portugal
7
5. Bhutan
$\checkmark$
6. UAE4. Israel
Q. 19 As per a World Gold Council (WGC) report that was released in January 2020, the Reserve Bank of India (RBI) was ranked $\qquad$ in terms of buying gold abroad among central banks of the world.
Ans
< 1. Seventh
ง 2. Sixth
< 3. Tenth
(4. Fifth
Q. 20 Which of the following passes is located between Nilgiri Hills to the north and Anaimalai Hills to the south?

Ans

1. Aghil Pass
< 2. Karakoram Pass
< 3. Rohtang Pass
v 4. Palghat Pass
Q. 21 Which of the following books was translated as 'The Razmnama' (Book of Wars) during the reign of Akbar?
Ans
(1. Ramayana

X 2. Babur Nama

- 3. Mahabharata
\$4. Akbar Nama
Q. 22 According to the Carbon Disclosure Project (CDP) annual report that was released in January 2020, what was India's rank in corporate commitments to science-based targets?
Ans
X

1. Eight
>
2. Tenth
$\checkmark$
3. Fifth

Х4. Sixth
Q. 23 The 5th edition of 'Indian International Science Festival (IISF) 2019' was held in which city?

Ans


入2. Delhi
3. Chandigarh
4. Hyderabad
Q. 24 Which former cricketer and captain of the Indian team was formally elected as the President of BCCI in October 2019?
Ans
X 1. Kapil Dev

- 2. Sourav Ganguly

3. Sunil Gavaskar
(4. Ravi Shastri
Q. 25 In the context of the contribution of scientists for which they were awarded Nobel Prize, which of the following pairs is INCORRECT?
Ans
Х 1. Light scattering - CV Raman
X 2. Diffraction of X-rays - Max Von Laue
X 3. Zeeman Effect - Hendrik Lorentz
4. Quantum mechanics - Galileo Galilei

## Combined Higher Secondary Level Examination 2019 Tier I

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | $20 / 10 / 2020$ |
| Exam Time | $4: 00$ PM - 5:00 PM |
| Subject | CHSL Tier 1 |

## Section : English Language (Basic Knowledge)

Q. 1 Given below are four sentences in a jumbled order. Out of the given options pick the one that gives their correct order.
A. Add the product to your shopping cart.
B. Select the brand you like.
C. Enter the card details and buy the product online.
D. Look for the product you want to purchase.

Ans
X 1. DACB
X ${ }^{2}$. BCDA
X 3 . ABCD

- 4. DBAC
Q. 2 Select the correct antonym for the given word.

Formidable
Ans

- 1 . Trivial

X 2. Dangerous
X 3. scary
(4. Appalling

## Q. 3 Select the most appropriate synonym of the given word.

Delinquent
Ans
Х 1 . Charming
Х 2. Despairing
X 3. Rewarding
4. Offending

## Q. 4 Identify the segment which contains a grammatical error.

The old woman in our locality is knowing for her hot temper.
Ans

- 1 . is knowing for

Х2. In our locality
3 3. her hot temper
4. The old woman

## 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.

The two men bowed to one (1) $\qquad$ and parted. Tom found himself in a difficult
(2) $\qquad$ He was going to (3) $\qquad$ three duels in a (4) $\qquad$ of three hours. "Even if I
am killed, it will be a (5) $\qquad$ death," he thought.

SubQuestion No : 5
Q. 5 Select the most appropriate option to fill in the blank no. 1

Ans
X 1. other
< 2 . self

- 3. another

Х4.each

## 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.

The two men bowed to one (1) $\qquad$ and parted. Tom found himself in a difficult
(2) $\qquad$ . He was going to (3) $\qquad$ three duels in a (4) $\qquad$ of three hours. "Even if I
am killed, it will be a (5) $\qquad$ death," he thought.

SubQuestion No : 6
Q. 6 Select the most appropriate option to fill in the blank no. 2

Ans
< 2. relation
X 3.location
<4. station

## 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.

The two men bowed to one (1) $\qquad$ and parted. Tom found himself in a difficult
(2) $\qquad$ . He was going to (3) $\qquad$ three duels in a (4) $\qquad$ of three hours. "Even if I am killed, it will be a (5) $\qquad$ death," he thought.

SubQuestion No: 7

## Q. 7 Select the most appropriate option to fill in the blank no. 3

Ans

1. fight 2. participate $_{\text {3. figure }}$

## 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.

The two men bowed to one (1) $\qquad$ and parted. Tom found himself in a difficult
(2) $\qquad$ . He was going to (3) $\qquad$ three duels in a (4) $\qquad$ of three hours. "Even if I
am killed, it will be a (5) $\qquad$ death," he thought.

SubQuestion No : 8
Q. 8 Select the most appropriate option to fill in the blank no. 4

Ans
(1. time
v 2. matter
X 3. place
4. difference

## 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.

The two men bowed to one (1) $\qquad$ and parted. Tom found himself in a difficult
(2) $\qquad$ . He was going to (3) $\qquad$ three duels in a (4) $\qquad$ of three hours. "Even if I am killed, it will be a (5) $\qquad$ death," he thought.

SubQuestion No: 9

## Q. 9 Select the most appropriate option to fill in the blank no. 5

Ans
入 1. curious
< 2. laborious
$\checkmark 3$
3. glorious
4. spurious
Q. 10 Select the most appropriate synonym of the given word.

Prodigious
Ans
X 1 . Unimportant
<2. Exciting
X 3. Proud
4. Immense
Q. 11 Select the most appropriate word to fill in the blank.

The yoga instructor was $\qquad$ at the student's flexibility.

Ans
X 1. ridiculed
2. amazed

X 3. angry
(4. disturbed
Q. 12 Select the most appropriate word to fill in the blank.

The government enterprises were privatized as they were $\qquad$ heavy losses on a daily basis.

Ans
Х 1. earning
2. incurring

X 3. containing
(4. demanding
Q. 13 Select the wrongly spelt word.

Ans

- 1. Voracous

X 2. Video
X 3. Valour
X 4. Voluntary
Q. 14 Select the correct antonym for the given word.

Identical
Ans
1 1. Corresponding
< 2 . Similar
3. Indistinguishable

- 4. Different
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 improvement.

Tons of sheep were grazing in the field.
Ans

- 1. A flock of sheep

Х 2. Many sheeps
Х 3. Numerous sheeps
(4. No improvement.
Q. 16 In the sentence identify the segment which contains the grammatical error.

When Harry come back home, he saw blood everywhere.
Ans
Х 1. blood everywhere
X 2. he saw
3 3. When Harry
4. come back home
Q. 17 Select the word which means the same as the group of words given.

Something like an opening, particularly one in the body such as a nostril
Ans
-1. Orifice
X2. Obtuse
Х 3. Obscure
>4. Oblique
Q. 18 Select the most appropriate meaning of the given idiom.

Flying off the handle
Ans
X 1 . Day dreaming
Х 2. Having lofty ideas
3. Suddenly becoming enraged
4. Flying away, being launched from a handle
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 improvement.

The Dean said, "You can have neither jam nor butter,_but not both."
Ans
1 1. No improvement.
2. jam and butter

Х 3. no jam or butter
4. either jam or butter
Q. 20 Select the word which means the same as the group of words given.

Something that is extremely unpleasant
Ans
-1. Horrendous
Х 2. Heightened
X 3. Humane
Х4. Humorous
Q. 21 Select the correct indirect form of the given sentence.

Peter said, "He broke his glasses."
Ans 1. Peter said that he had broken his glasses.
2. Peter said that he is going to break his glasses.
3. Peter said that he is breaking his glasses.
4. Peter said that he break his glasses.
Q. 22 Select the most appropriate meaning of the given idiom.

To cost an arm and a leg
Ans
1 1. Not readily available
X 2. Easily affordable

- 3. Very expensive

4. To give away an arm and a leg
Q. 23 Given below are four sentences in a jumbled order. Out of the given options pick the one that gives their correct order.
A. The police suspected the man to be a thief.
B. Then the trial began in the court.
C. He was soon arrested by the police.
D. The thief was sentenced to two years' imprisonment.

Ans
>1. DCAB

- 2. ACBD

X $3 . \mathrm{BCDA}$
X4.BACD
Q. 24 Select the wrongly spelt word.

Ans
$X 1$. Concussion
X 2. Conveyance

- 3. Conviencing

X 4. Commemorate
Q. 25 Select the correct passive form of the given sentence.

The police arrested the thieves yesterday.
Ans

1. The thieves were arrested yesterday by the police.
2. The thieves have been arrested yesterday by the police.
3. The thieves were being arrested yesterday by the police.
4. The thieves had been arrested yesterday by the police.

## Section : General Intelligence

Q. 1 In the Venn diagram given below, the 'Circle' represents 'boys'; the 'Triangle' represents 'married', and the 'Square' represents 'the persons who own pets'. Then select the area which represents boys who are married but do not own pets?


Ans
Х1. 2
X2. 6
Х3.5

- 4. 4
Q. 2 Select the option in which the words share the same relationship as that shared by the given pair of words.

Chief Justice : President
Ans
X 1. Corporator: Mayor
X 2. Chief Minister : Cabinet Minister
X 3. Chief of Army Staff : Prime Minister

- 4. Municipal Commissioner : State Government
Q. 3 Select the option that represents the words in a logical sequence.

Ans

- 1. Peanut - Mouse - Snake - Eagle

X 2. Mouse - Peanut - Eagle - Snake
X 3. Mouse - Snake - Peanut - Eagle
X 4. Eagle - Snake - Peanut - Mouse
Q. 4 Select the option that is related to the third number in the same way as the second number is related to the first number.
$36: 27:: 16: ?$
Ans $X 1.125$
$\times 2.64$
$\times 3.124$

- 4.8
Q. 5 In a certain code language, 'salute' is written as 'iuamet'. How will 'mango' be written as in that language?

Ans

- 1. uhoen
$X$ 2. phobn
$X$ 3. uhobn
X 4. uhpen
Q. 6 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

(C2)

Q. 7 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

CEW , DFU , HJR , KMO
Ans
X 1. HJR
2. DFU
$X$ 3. CEW
X 4. KMO
Q. 8 Select the number that can replace the question mark (?) in the following series.
$-13,16,-20,25,-31, ?$
Ans
X1. 48
X 2. -38

- 3. 38

X4. -48
Q. 9 Four words have been given below, out of which three are alike in some manner and one is different. Select the odd one.

Kabaddi ,Volleyball, Football, Hockey
Ans
$X^{1}$. Volleyball
$X$ 2. Hockey
3. Kabaddi

X 4. Football
Q. 10 Four numbers have been given below, out of which three are alike in some manner and one is different. Select the number that is different from the rest.

132, 17523, 3164, 2685
Ans
X 1.17523

- 2. 3164

X 3. 132
X4. 2685
Q. 11 Select the correct mirror image of the given figure from the options.


Ans

Q. 12 In a certain code language, 'Wand' is coded as ' 240153 ' and 'Curd' is coded as ' 420193 '. How will 'East' be coded as in that language?

Ans
X 1.421821
2. 602019

X 3.612120
X4. 421719
Q. 13 Select the option in which the numbers are related in the same way as are the numbers in the given set.
$(23,59,18)$
Ans $\quad \chi_{1}(9,92,24)$

- 2. $(71,83,21)$

X 3. $(24,68,46)$
X $4 .(43,59,67)$
Q. 14 Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.
ac_b_ac__aa_d_a_cd_-
Ans 1. dadbcbaba
X 2. bcdbcdaba
$X$ 3. cbdcabada
X4. acbdcdabc
Q. 15 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:

1. All workers are honest.
2. Few of my friends are workers.
3. All my friends are honest.

Conclusions:
I. All my friends are workers.
II. All workers are my friends.
III. All my non-worker friends are honest.

Ans

- 1. Only conclusion III follows.
$X$ 2. Only conclusions I and III follow.
X 3. Only conclusions I and II follow.
X 4. Only conclusion II follows.
Q. 16 How many triangles are there in the given figure?


Ans
X1. 28
X2. 16
$\times 3.20$

- 4. 24
Q. 17 If ' + 'means 'multiplication', ' $\times$ 'means 'division', ' $\div$ ' means 'subtraction', and'-' means 'addition', then find the value of the following expression.
$48 \div 12 \times 3-6+3$
Ans $X 1.150$
$\times 2.30$
$\times 3.9$
- 4.62
Q. 18 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.

CDE : XWV :: HIJ : ?
Ans
$X$ 2. QRS
$X$ 3. PON
X 4. NOP
Q. 19 Select the option in which the given figure is embedded. (Rotation is not allowed)


Ans
Х1.


- 2

$\times 3$.

$\times 4$.

Q. 20 Select the option in which the numbers are related in the same way as are the numbers in the given set.
$(13,133,6)$
Ans
- 1. $(9,65,4)$

X $2 .(10,8,6)$
X 3. $(3,4,2)$
X4. $(11,122,2)$
Q. 21 Select the option that is related to the third word in the same way as the second word is related to the first word.

India : Delhi :: Jharkhand : ?
Ans
X 1. Dispur
X 2. Bhubaneshwar

- 3. Ranchi

X 4. Bhopal
Q. 22 Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having ' 6 '.


Ans $\times 1.5$
$\times 2.1$
X3.4

- 4. 2
Q. 23 A pipe can fill a leak-proof tank completely in 24 hours. A leakage at the midpoint of Same size tank empties half the tank in 36 hours. How much time will it take to fill this tank with the given pipe?

Ans
X 1.14 .4 hrs

- 2. 30 hrs

X 3. 18 hrs
X 4.72 hrs
Q. 24 Select the option figure that can replace the question mark (?) in the following series.


Ans

Q. 25 Shraddha says to Sharayu, "Your mother-in-law is my father's mother who is eldest son, but your husband is not my father." How is Sharayu related to Shraddha?

Ans
X 1. Niece
X 2. Daughter
$X$ 3. Mother
4. Aunt

Status : Not Answered

## Section : Quantitative Aptitude(Basic Arithmetic Skill)

Q. 1 The average age of a man and his son is 60 years. The ratio of their ages is $13: 7$, respectively. What is the son's age?

Ans
X 1.40 years
$\times 2.41$ years

- 3. 42 years
$\times 4.43$ years
Q. 2 The centroid of an equilateral triangle $\triangle P Q R$ is $L$. If $P Q=18 \mathrm{~cm}$, then the length of $P L$ is:

Ans
X $1.3 \sqrt{3} \mathrm{~cm}$
$\times 2.5 \sqrt{3} \mathrm{~cm}$

- $3 \sqrt{3} \mathrm{~cm}$

X4. $4 \sqrt{3} \mathrm{~cm}$
Q. 3 Study the following bar graph and answer the question that follows.

## Export of Diamonds (in ₹ crore)



In which of the following pairs of years, the average export of diamonds was closest to ₹ 12 crores?
Ans
X 1. 2010 and 2011

- 2. 2013 and 2014

X 3. 2011 and 2012
X4. 2012 and 2013
Q. 4 Study the following bar graph and answer the question that follows.

## Export of Diamonds (in ₹ crore)



In which year was the maximum percentage increase in diamond exports compared to the previous year?
Ans
X 1. 2010
X2. 2012
X 3. 2014

- 4. 2009
Q. 5 A person bought 60 books for $₹ 60$ each. He sold 50 of them at a loss of $4 \%$. At what per cent profit should he sell the remaining books so that he gains $5 \%$ in the entire transaction?
Ans
-1. $50 \%$
$\times 2.40 \%$
X 3. $30 \%$
X4. $60 \%$
Q. 6 The tangent at a point $A$ of a circle with centre $O$ intersects the diameter $P Q$ of the circle (when extended) at the point $B$.

If $\angle B A P=125^{\circ}$, then $\angle A Q P$ is equal to:
Ans
$\times 1.50^{\circ}$

- 2. $55^{\circ}$

X 3. $60^{\circ}$
X4.45
Q. 7 If $(a+3 b):(2 a+4 b)=3: 5$, then $(a-b):(a+b)$ is equal to:

Ans
-1. $1: 2$
X2. 2:1
X 3. 3:2
X4.2:3
Q. 8 At simple interest Gaurav borrows ₹ 1,500 from Sandeep at the rate of $14 \%$ per annum. What amount of money should Gaurav pay to Sandeep after 1 year to clear the debt?
Ans
X 1. ₹ 1,700

- 2. ₹ 1,710

X $3 . ₹_{1,705}$
X 4. ₹ 1,715
Q. 9 If $\cot \mathrm{A}=\tan \left(2 \mathrm{~A}-45^{\circ}\right), \mathrm{A}$ is an acute angle then $\tan \mathrm{A}$ is equal to:

Ans
$\times 1 . \frac{1}{2}$
$\times 2.0$
Х3. $\sqrt{3}$

- 4.1
Q. 10 How many minutes does Shyam take to cover a distance of 500 m if he runs at a speed of $30 \mathrm{~km} / \mathrm{h}$ ?

Ans
X 1.2
X2. $2 \frac{1}{2}$
X 3. $1 \frac{1}{2}$

- 4.1
Q. 11 Richa invests in mutual funds a sum of $₹ 5,59,968$, which is $19 \%$ of her annual income. What is her monthly income?

Ans
X 1. ₹ $4,45,600$
X 2. ₹ $1,45,600$
X 3. ₹ $3,45,600$

- 4. ₹ $2,45,600$
Q. 12 A single discount equivalent to a discount series of $5 \%, 10 \%, 15 \%$ and $20 \%$, is:

Ans
X1. $43.86 \%$
X 2. $42.86 \%$
X 3. $40.86 \%$

- 4. $41.86 \%$
Q. 13 The side ST of $\triangle R S T$ is produced to P . If $\angle R T P=115^{\circ}$ and $\angle S=\frac{2}{3} \angle R$, then the measure of $\angle R$ is:

Ans
$\times 1.68^{\circ}$

- $2.69^{\circ}$
$X$ 3. $67^{\circ}$
X4. $66^{\circ}$
Q. 14 The value of $\sin ^{2} 38^{\circ}-\cos ^{2} 52^{\circ}$ is:

Ans
X $1 . \frac{1}{\sqrt{2}}$
$\times 2.1$
Х3. $\sqrt{2}$

- 4.0
Q. 15 If $a+2 b=10$ and $2 a b=9$, then $|a-2 b|$ is equal to:

Ans
X1. 4
$\times 2.6$
-3. 8
$\times 4.2$
Q. 16 If the value of $\sec B+\tan B=r$, then the value of $\sec B-\tan B$ is equal to:

Ans
X 1.0

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

Х 3. $r^{2}$
X4. $-r$
Q. 17 What is the value of
$-77+800 \div[83-\{8 \times 9+(18-3 \times 5)\}] ?$
Ans $\times 1.24$

- 2. 23

X 3. 26
$\times 4.25$
Q. 18 Antony and Vikash together can complete a piece of work in 20 days and Vikash alone can complete it in 25 days. In how many days can Antony alone complete the same work?
Ans
X 1. 90 days
X2. 80 days

- 3. 100 days

X4. 110 days
Q. $192^{25}+2^{26}+2^{27}$ is divisible by:

Ans
X1. 6
-2. 7
$\times 3.5$
$\times 4.9$
Q. 20 Study the bar graph and answer the question that follows.


The ratio of the total production of organic fertilisers by the company in the years 2005, 2006 and 2008 to the total production in the years 2001, 2002, 2003 and 2004, is:
Ans
X1. 5:6
X2. $3: 4$

- 3.5

X4.4:3
Q. 21 Study the graph and answer the question that follows.

The chart represents the demand and production of a certain item (in metric tonnes) for five companies $\mathrm{U}, \mathrm{V}, \mathrm{X}, \mathrm{Y}$ and Z.


If $\mathrm{p} \%$ of the demand of the item for company U is equal to the production for company Z , then p is equal to:
Ans
X1. 55
$\times 2.85$
X 3. 65

- 4.75
Q. 22 If $4 x^{2}+y^{2}=40$ and $x y=6,(x>0, y>0)$ then the value of $2 x+y$ is

Ans
X1. 24
$\times 2.16$
$\times 3.4$

- 4.8
Q. 23 Two circles with centres $P$ and $Q$ of radii 7 cm and 3 cm , respectively, touch each other externally at a point $A$. $B C$ is a direct common tangent to these two circles where B and C are the points on the circles respectively. The length of BC is:
Ans
$\times 1.3 \sqrt{21} \mathrm{~cm}$
$\times$ 2. $\sqrt{21} \mathrm{~cm}$
ง. $2 \sqrt{21} \mathrm{~cm}$
X4. $4 \sqrt{21} \mathrm{~cm}$
Q. 24 If $x^{3}+27 y^{3}+64 z^{3}=36 x y z$, then the relationship between $x, y$ and $z$ is

Ans
X1. $x+y+z=0$
Х2. $x-3 y+4 z=0$
Х3. $x+3 y=4 z$
ง 4. $x+3 y+4 z=0$
Q. 25 If the breadth and perimeter of a rectangle are in the ratio $1: 8$ and the area of rectangle is $363 \mathrm{~cm}^{2}$, then the breadth of the rectangle is:
Ans
1.11 cm
$\times \quad 2.12 \mathrm{~cm}$
$\times 3.10 \mathrm{~cm}$
$\times 4.13 \mathrm{~cm}$

## Section : General Awareness

Q. 1 Name the first Chief Scientist of the public health division at the World Health Organisation.
Ans
Х 1. Dr. Zsuzsanna Jakab
2. Dr. Soumya Swaminathan

X 3. Dr. Michael Ryan
(4. Dr. Harsh Vardhan
Q. 2 What was the theme of International Nurses Day in 2020?

Ans

1. Health for All
<
2. Achieving the Sustainable Development Goals
v 3. Nursing the World to Health
3. Health is a Human Right
Q. 3 Locomotion in $\qquad$ takes place with the help of a muscular foot.

Ans

1. jellyfish

- 2 . snails

3. earthworms

X 4. sea urchins
Q. 4 The Maharaja of $\qquad$ was the first Indian cricketer to serve as President of the Board of Control for Cricket in India (BCCI).
Ans
Х1. Rewa

- 2. Vizianagaram

X 3. Baroda
X4. Mysore
Q. 5 'FIR Aapke Dwar', an initiative whereby police officials would visit homes of victims to register a First Information Report (FIR), was launched in the state of $\qquad$ in May 2020.

Ans

- 1. Madhya Pradesh

X 2. Uttar Pradesh
X 3 . Bihar
Х4. Maharashtra
Q. 6 Which of the following states was declared as the cleanest state in Swachh Survekshan 2019?

Ans

1. Maharashtra

- 2. Chhattisgarh

X 3. Jharkhand
4. Uttarakhand
Q. 7 Which of the following sites does NOT feature in the United Nations' World Heritage List as of June 2020?

Ans
X 1. Ellora Caves
X 2. Elephanta Caves
Х 3. Ajanta Caves
4. Karla Caves
Q. 8 Who has developed the Automatically Programmable Tool (APT)?

Ans
X 1. Gary Kildall

- 2. Douglas T Ross

Х 3. Ralph H Baer
4 4. Jonathan Fletcher
Q. 9 Which of the following is an example of a terrestrial natural disaster?

Ans $\times 1$. Blizzard
X 2. Tornado
3. Landslide
4. Thunderstorm

Status : Not Answered
Q. 10 The Indian Government annexed $\qquad$ in 1948 under the code name 'Operation Polo'.

Ans

- 1. Hyderabad

Х 2. Gwalior
X 3. Mysore
X 4. Baroda
Q. 11 Who was India's first Chief of Defence Staff?

Ans
Х 1. Ajit Doval
X 2. Gopal Gurunath Bewoor

- 3. Bipin Rawat

X 4. Sam Maneckshaw
Q. 12 Depression is a $\qquad$ disorder.

Ans 1.mood
Х 2. dissociative
X 3. schizophrenic
X 4. somatoform
Q. 13 The sino-artrialnode is located in the $\qquad$
Ans
Х 1. bladder

- 2. heart

X3. brain
X4. stomach
Q. 14 Inscriptions composed in praise of kings of ancient India are known as $\qquad$ ـ.
Ans

1. Tripitakas

X 2 . Sutras
X 3. Jatakas

- 4. Prashastis
Q. 15 Which of the following states has one of the richest monazite deposits in India?

Ans 1.Kerala
X 2. Gujarat
X 3. Jharkhand
X4. Rajasthan
Q. 161 Petabyte $(P B)=1024$ $\qquad$ _.

Ans $\times 1$. Zettabytes (ZB)
X 2. Exabytes (EB)
3. Terabytes (TB)
(4. Gigabytes (GB)
Q. 17 The Bandhavgarh Tiger Reserve is located in the state of $\qquad$
Ans
Х 1. Rajasthan
2. Uttarakhand

X 3. Andhra Pradesh

- 4. Madhya Pradesh
Q. 18 As of April 2020, $\qquad$ holds the record for delivering the most number of balls by any woman cricketer in Women's test history.

Ans
X 1. Anjum Chopra
X 2. Harmanpreet Kaur

- 3. Diana Edulji
(4. Mithali Raj
Q. 19 In May 2020, the Government of India raised the net borrowing limit for state governments to $\qquad$ \% of the gross state domestic product (GSDP).

Ans

- 1.5

Х2.7
>3.3
X 4.10
Q. 20 $\qquad$ is a traditional Indian sport, whereby athletes perform various types of gymnastics moves and hold various poses on a vertical wooden pole.
Ans
Х 1. Kalaripayattu
2. Nadan Panthu Kali

- 3. Mallakhamb
(4. Yubi Lakpi
Q. 21 $\qquad$ was a mentor to both, Mahatma Gandhi and Mohammed Ali Jinnah.

Ans

- 1. Gopal Krishna Gokhale

Х 2. Rabindranath Tagore
X 3. Lala Lajpat Rai
(4.Bal Gangadhar Tilak
Q. 22 Yadgir, Bidar and Gadag are districts are in the state of $\qquad$ .
Ans

- 1. Karnataka

X 2. Tamil Nadu
X 3. Andhra Pradesh
X 4. Kerala
Q. 23 The first Backward Classes Commission of India was headed by $\qquad$ _.
Ans $\begin{aligned} & \text { 1. Gopal Krishna Gokhale }\end{aligned}$

- 2. Kaka Kalelkar

X 3. Lokmanya Tilak
(4. Nanaji Deshmukh
Q. 24 With which bank has Ashok Leyland, the commercial vehicle brand, tied up in November 2019 for vehicle loans for a period of 2 years?
Ans
Х 1. HDFC Bank
Х 2. Punjab National Bank
3. ICICI Bank

Х 4. State Bank of India
Q. 25 The $\qquad$ festival is celebrated by the Ahom people of Assam on 31st January every year in memory of the departed.

Ans

- 1. Me-Dam-Me-Phi

X 2. TirthaMukh
X 3. Lampra Puja
Х 4. Ashokastami

