## Sub Inspector in Delhi Police and Central Armed Police Forces Examination 2022

| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name |  |
| Exam Date | 09/11/2022 |
| Exam Time | 9:00 AM - 11:00 AM |
| Subject | SICPO Paper I 2022 |

Section: General Intelligence and Reasoning
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Q. 1 If $\times$ means,$+ \div$ means $\times$, - means $\div$, and + means - , then what will be the value of the following expression?
$32 \times 6+10-4 \div 8=$ ?
Ans 1.18
$\times 2.20$
$\times 3.22$
$\times 4.24$
Q. 2 If A denotes ' + ', B denotes ' $\times$ ', C denotes ' - ', and D denotes ' - ', then what will be the value of the following expression?

50 A 86 C 40 D 10 B $5=$ ?
Ans $\times 1.124$
2. 150
3. 116
-4. 134
Q. 3 Select the number from among the given options that can replace the question mark
(?) in the following series.
72, 85, 68, 81, ?, 77
Ans $\times 1.70$

- 2.61

3. 64
4. 67
Q. 4 Three statements are given followed by four conclusions numbered 1, 2, 3, and 4.

Assuming the statements to be true, even if they seem to be at variance with
commonly known facts, decide which of the conclusions logically does NOT follow(s)
from the statements.
Statements:
Some Nights are Lights
No Light is a Van.
All Vans are Whips.
Conclusions:

1) Some Nights are not Vans.
2) No Van is a Light.
3) Some Whips are not Lights.
4) Some Nights are Whips.

Ans

1. Only conclusion 4 does not follow.
2. Only conclusion 2 does not follow.
3. Only conclusion 1 does not follow.
4. Only conclusion 3 does not follow.
Q. 5 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.
Ans
X 1. CEIO
5. HJNU
6. JLPV
7. FHLR
Q. 6 Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

Q. 7 If A denotes ' + ', B denotes ' $x$ ', C denotes ' - ', and $D$ denotes ' $\because$ ', then what will be the value of the following expression?
25 C 21 D 7 B 3 A 4
Ans

$\times 2.21$
$\times 3.24$
$\times 4.43$
Q. 8 Select the option that represents the letters that, when sequentially placed from left to right in the blanks, will complete the letter series.
_ $M_{-} X J_{-} P X_{-} M P_{-} J_{-} X$
Ans
X1.JOJMXMP
2. JPMJXMP

X 3.JPMXJMP
X4.JPXMJMP
Q. 9 Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
All coffees and milkshakes are teas.
None of the coffees are milkshakes.
Conclusions:
I. Some coffees are milkshakes.
II. Some teas are coffees
III. Some milkshakes are teas.

Ans

1. Only conclusions II and III follow

X 2. Only conclusions I and II follow
X 3. Only conclusions I and III follow
4. All of the conclusions follow
Q. 10 Neha departs from her home and walks 51 m towards the south and then turns left and walks 44 m . Now she turns left again and walks 83 m . How far is she from a pole that is exactly 32 m north from her home now? (Assuming that all turns are 90 degree turns only)
Ans
X 1.14 m

- 2.44 m
$\times 3.7 \mathrm{~m}$
$\times 4.39 \mathrm{~m}$
Q. 11 If 31 December 2003 was a Wednesday, then what was the day of the week on 7 March 2005?
Ans
X 1. Tuesday

2. Sunday

X 3. Saturday
4. Monday
Q. 12 Which of the following numbers will replace the question mark (?) in the given series? 164, 172, 145, ?, 84

Ans

1. 209
2. 308
3. 283
4. 234
Q. 13 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Lend : Borrow
Ans
X 1. Happy: Joyous
X 2. Stern : Strict
3. Exciting : Boring

X 4. Sharp : Edged
Q. 14 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 one showing 6 .


Ans

1. 3
$\times 2.4$
$\times 3.2$
$\times 4.5$
Q. 15 Select the option that is related to the third term in the same way as the second term is related to the first term and sixth term is related to fifth term.
6:32:: 10: ? :: 11:117
Ans
$\times 1.99$
X2. 110
X 3.88

- 4.96

Q． 16 If $A$ denotes＇+ ＇，B denotes＇$x$＇，$C$ denotes＇- ＇，and $D$ denotes＇$\because$＇，then what will come in place of＇？＇in the following equation？
27 B 5 C 38 A 16 D 4 A 42 C 8 B $4=$ ？
Ans
$\times 1.130$
（ 2． 120
3． 111
4． 109

Q． 17 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below．


Ans
1． $\mathbf{q W V 8 C 「 J A ~}$


x4．eWV8 ट「つA

Q． 18 In a certain code language，＇ANYWAY＇is written as＇YNAYAW＇and＇BATTLE＇is written as＇TABELT＇．How will＇COSTLY＇be written in that language？
Ans
1．SOCYLT
2．SCTOLY
3．OCTSLY
4．YLTSOC

Q． 19 If $M$ denotes＇- ＇，$N$ denotes＇$\because$＇，$O$ denotes＇$x$＇，and $P$ denotes＇+ ＇，then what will come in place of＇？＇in the following equation？
324 P 35 M 184 M 17 O 3 P 39 ＝？
Ans
1． 163
2． 171
3． 159
4． 153
Q. 20 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 one showing 1 .


Ans 1. 4
$\times 2.5$
3.3

X 4.2
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 and sixth term is related to fifth term.
2: 9:: 9 : ? :: 6:217
Ans

1. 730
2. 28
3. 513
4. 82
Q. 22 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some laces are shoes.
Some laces are socks.
Conclusions:
I. All socks are shoes.
II. Some socks are laces.

Ans

1. Only conclusion I follows.
2. Both conclusions I and II follow.
3. Neither conclusion I nor II follows
4. Only conclusion II follows.
Q. 23 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.
(The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)
Chickenpox : Virus
Ans
X1. Anthrax: Viruses
5. Anthrax: Parasites
6. Anthrax : Fungi
7. Anthrax : Bacteria
Q. 24 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
234 * 345 * 456 * 567 * 678 * 12
Ans
X $1 .-,+,+,-,=$
人2. $\div,-,+,-,=$
人3.+, $\times,+,-,=$
4.,,,,$+-+-=$
Q. 25 Eight people are sitting in two parallel rows with 4 people each in such a way that there is equal distance between adjacent persons. In Row I-1,2,3 and 4 are seated and all of them are facing south. In Row II $-6,7,8$ and 9 are seated and all of them are facing north. 1 and 2 are not seated at the extreme ends and 1 sits to the immediate left of 2.9 and 7 sit opposite 1 and 2 and 7 sits exactly opposite 1.7 is not the immediate neighbour of 6 . Who sits at the extreme right corner of Row II facing north?
Ans 1. 8
$\times 2.7$
$\times 3.9$
$\times 4.6$
Q. 26 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 one showing ' 1 '


Ans
$\times 1.3$
X2. 4
-3. 6
X4. 2
Q. 27 In a code language, 'SPACE' is written as ' $5-91$ ' and 'ROTTEN' is written as ' 6 - 70 '. How will 'MEAN' be written in that language?
Ans

1. 4-75

X 2. 4-74
X 3.4-73
$\times 4.4-76$
Q. 28 Which option represents the correct order of the given words as they would appear in the English dictionary?
1 Method
2 Methanol
3 Metrics
4 Metro
5 Melody
Ans

1. $5,2,1,3,4$

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

- 4. 5,1,2,4,3
Q. 29 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed) $(23,308,15)$
$(18,187,12)$
Ans

1. $(14,104,9)$
2. $(19,325,27)$
3. $(20,280,14)$
4. $(16,122,7)$
Q. 30 Which of the following numbers will replace the question mark (?) in the given series?
$23,50,73,100, ?$
Ans
5. 123

X2. 120
$\times 3.127$
$\times 4.125$
Q. 31 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(17, 12, 612)
$(6,14,252)$
Ans $\quad \times 1 .(3,6,108)$
X $2 .(11,4,144)$
3. $(13,7,273)$

X4. $(2,3,12)$
Q. 32 Which figure should replace the question mark (?) if the following series were to continue?

| B | S | T | T | U | B | B | T | U | U | Hे | B |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | A |  |  | S |  |  | S |  |  | T |  | ? |
| O | U | मे | $\hat{H}$ | A | O | O | मे | A | A | S | O |  |

Ans
$\times 1$.
O ※ A
T
B $\quad \mathrm{S} \quad \mathrm{U}$
$\checkmark 2$.

$\times 3$.

$\times 4$

Q. 33 If $\times$ means,$+ \div$ means - , + means $\times,-$ means $\div$, what will come in place of the question mark (?) in the given expression?
$182-13 \times 5+16 \div 44=$ ?
Ans

1. 50
$\times 2.62$
$\times 3.86$
$\times 4.48$
Q. 34 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series
_ SSRS _ $\mathrm{SS}_{\mathbf{-}} \mathrm{S}$
Ans
X 1. RRRSR
2. RSRRS

X 3. SRRSR
4. RSSRR
Q. 35 Select the figure that will replace the question mark (?) in the following figure series.


Ans

v.

$\times 4$

Q. 36 A \# $B$ means ' $A$ is the mother of $B$ '
$A @ B$ means ' $A$ is the sister of $B$ '
$A$ \& $B$ means ' $A$ is the father of $B$ '
$A \% B$ means ' $A$ is the wife of $B$ '
If W \# Q @ T \& Y @ M \% K, then how is K related to T?
Ans
X 1. Wife's brother
2. Son
3. Daughter's husband
4. Brother
Q. 37 Suman drives 3 km towards north from point A. She takes a right turn and drives 4 km more. Then she takes another right turn and drives 3 km . Finally, she takes one more right turn and drives 6 km to reach point B.How far and towards which direction should she drive in order to reach point $A$ again?

Ans

1. 2 km towards south
2. 3 km towards north
3. 3 km towards west
4. 2 km towards east
Q. 38 Select the figure that will come in place of the question mark (?) in the following figure series.


Ans

Q. 39 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
$F U_{-} U_{-} E X_{-} E F F_{-} T_{-} R E_{--} T U_{-} E$
Ans

1. TRFURUUFUR

X 2. FUFRUUFTRF
X 3. TRFUFRUTUF
X 4. FUFRUTFRRF
Q. 40 Seven people, $P, Q, R, S, T, U$ and $V$, are sitting in a straight row, facing the north. Only two people sit to the right of $U$. Only two people sit to the left of $R$. Only two people sit between $U$ and $Q$. Only three people sit between $R$ and $V$. T is not an immediate neighbour of $U$. $S$ sits to the right of $U$. Who sits to the immediate right of $U$ ?
Ans
X1.P
2. S

X 3 R
X4.
Q. 41 In a certain code language, 'CASTLE' is written as 'IFWWNF' and 'DRIVER' is written as 'JWMYGS'. How will 'FEMALE' be written in that language?
Ans
X 1. MKPDOF
X 2. KKQEMG
X 3. MJRDNO
4. LJQDNF

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Q. 42 Select the option in which the given figure is embedded (rotation is NOT allowed).
io
Ans

$\checkmark 2$.

$\times 3$.

$\times 4$

Q.43 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 one showing ' 3 '.


Ans

1. 4
$\times 2.1$
$\times 3.5$
$\times 4.2$
Q. 44 Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.


Ans

Q. 45 Which of the following numbers will replace the question mark (?) in the given series? 822, 817, 807, 787, ?

Ans
$\times 1.755$
$\times 2.754$
3. 750
4. 752
Q. 46 ' $X \$ Y$ ' means ' $X$ is the son of $Y$ '
' $X$ @ $Y$ ' means ' $X$ is the husband of $Y$ '
' $X$ * $Y$ ' means ' $X$ is the sister of $Y$ '
' $X$ \# $Y$ ' means ' $X$ is the mother of $Y$ '
If ' P \$ Q \# V @ B', how is P related to B ?
Ans $\times 1$. Mother
X2. Son
3. Father
4. Husband's brother
Q. 47 Select the Venn diagram that best illustrates the relationship between the following classes.
Gold, Silver, Jewellery
Ans
1.

$\times 2$

$\times 3$.

$\times 4$.

Q. 48 Select the option that represents the letters that when placed from left to right in the blanks below will complete the letter series.
_HK_PQ_H_O_QJ_K_P_JH_O_Q
Ans
X 1. OJKJPHOQPK
X 2. JOKJPHQOKP
3. JOJKPHOQKP

X 4. OJJKPHQOKP
Q. 49 In a code language, 'WINNER' is written as 'XJOOFS' and 'RALLY' is written as 'SBMMZ'.How will 'CARTOON' be written in that language?
Ans
X1. DBSOPPU
X 2. CAPTOON
3. DBSUPPO

X4. CAPNOOT

## Q. 50 Three of the following four letter-clusters are alike in a certain way and one is different.

 Pick the odd one out.Ans $\quad \times 1$. ElO
X 2. YCI
3. PTY

X4. DHN

Section : General Knowledge and General Awareness
Q. 1 When and where was the maiden Athletics World Cup organised, that was discontinued after its first edition?

Ans

1. London, 2018
2. Seoul, 2019
3. Tokyo, 2020
4. Beijing, 2018
Q. 2 Which of the following pair of Thumri singing - characteristic is correct?
I. Poorab - fairly slow and staid
II. Punjab - more mercurial

Ans $\times 1$. Only I
2. Both I and II

X 3. Only II
X 4. Neither I nor II
Q. 3 Novelist Damodar Mauzo, who has won the $57^{\text {th }}$ Jnanpith Award, is a writer in which of the following languages?
Ans
X 1. Assamese
2. Odia
3. Konkani
4. Sanskrit

## Q. 4 Shijith Nambiar and Parvathy Menon were conferred the 5th Bharat Kala Ratna award

 for 2020 on 11 December 2021 by Kerala-based Navaneetham Trust for their service toAns

1. Kathak

X 2. Kuchipudi
X 3. Mohiniyattam
4. Bharatanatyam
Q. 5 With reference to the Land Revenue System of Mughal Empire, the term ' $\qquad$ , was the amount assessed.

Ans
X 1. Banjar
2. Polaj
3. Hasil
4. Jama

## Q. 6 Which of the following identity is correct regarding GNP?

Ans $\chi 1$. GNP = GDP + Factor income earned by the domestic factors of production employed in the rest of the world + Factor income earned by the factors of production of the rest of the world employed in the domestic economy
X 2. GNP = GDP - Factor income earned by the domestic factors of production employed in the rest of the world - Factor income earned by the factors of production of the rest of the world employed in the domestic economy
3. GNP = GDP + Factor income earned by the domestic factors of production employed
in the rest of the world - Factor income earned by the factors of production of the rest of the world employed in the domestic economy
X 4. GNP = GDP - Factor income earned by the domestic factors of production employed in the rest of the world + Factor income earned by the factors of production of the rest of the world employed in the domestic economy
Q. 7 'Matters of Discretion' is an autobiography of which former Prime Minister of India?

Ans
X 1. PV Narasimha Rao
2. Inder Kumar Gujral

X 3. Manmohan Singh
X 4. Atal Bihari Vajpayee
Q. 8 In ecology, $\qquad$ is determined by dividing the biomass per unit area by the age
of the forest ecosystem.
Ans $\quad$ 1. biomass density
X 2. biomass size
X 3. biomass energy flow
4. biomass productivity
Q. 9 What is the defined value of kB in the given equation?
$k B=P V / T N$
Ans

1. $1.38 \times 10^{-23} \mathrm{~J} \mathrm{~K}-1$
2. $1.08 \times 10^{-23} \mathrm{~J} \mathrm{~K}-1$
3. $1.68 \times 10^{-23} \mathrm{~J} \mathrm{~K}-1$
4. $0.38 \times 10^{-23} \mathrm{~J} \mathrm{~K}-1$
Q. 10 Kathak guru, Shovana Narayan received the $\qquad$ in 1992.

Ans $\times 1$ 1. Padma Bhushan
2. Nritya Shiromani
3. Padma Vibhushan
4. Padma Shri
Q. 11 'I Am No Messiah' is an autobiography of the actor $\qquad$ .
Ans

1. Sonu Sood
2. Salman Khan
3. Sonu Nigam
4. Amir Khan
Q. 12 Which gas is used by chemical leaveners, such as baking powder and baking soda, to lighten and aerate baked goods?
Ans
X 1. Nitrogen
5. Carbon dioxide
6. Helium
7. Hydrogen
Q. 13 Among the following rivers which is NOT a tributary of the Indus river system?

Ans

1. Kosi

X 2. Satluj
X 3. Ravi
4. Beas
Q. 14 The Bahamani Sultanate was founded by which of the following leaders?

Ans $\quad$ 1. Mahmud Gavan
2. Alauddin Hasan Bahman Shah
3. Muhammmad Shah
4. Mohammad bin Tughlaq
Q. 15 Who among the following is the author of the novel 'Train to Pakistan'?

Ans
X 1. RK Narayan
2. Khushwant Singh
3. Vikram Seth
4. Chetan Bhagat
Q. 16 Which of the following is correct regarding 'Monsoon'?

Ans

1. The word monsoon is derived from the Arabic word and it refers to the seasonal
reversal in the wind direction during a year.
2. The word monsoon is derived from the Tamil word and it refers to the seasonal reversal in the wind direction during a year.
3 . The word monsoon is derived from the Tamil word and it refers to the seasonal reversal in the wind direction every month.
3. The word monsoon is derived from the Arabic word and it refers to the seasonal reversal in the wind direction every month.
Q. 17 The headquarter of the National Remote Sensing Centre (NRSC) is located at:

Ans

1. Hyderabad
2. Kolkata
3. Bengaluru
4. Mumbai

## Q. 18 Which of the following is a diverse group of aquatic organisms capable of

 photosynthesising?Ans

1. Yeast
2. Protozoa
3. Fungi
4. Algae
Q. 19 Which of the following countries will host the $22^{\text {nd }}$ FIFA World Cup Football in 2022?

Ans
X 1 . Oman
X 2. South Africa
3. Qatar

X4. Brazil
Q. 20 Who among the following founded the 'Asiatic Society of Bengal' in 1784?

Ans

1. Sir William Jones
2. Raja Ram Mohan Roy
3. Dwarkanath Tagore
4. Henry Vivian Derozio
Q. 21 Who among the following Governor Generals enacted the law against the Sati practice in December 1829?
Ans
5. Lord Canning
6. Lord William Bentinck

X 3. Lord Dalhousie
$\times$
4. Lord Warren Hastings
Q. 22 Which of the following Fundamental Duty provisions is similar to Article 21A?

Ans $\times 1$. Article 51A (i)
2. Article 51A (k)
3. Article 51A (h)
4. Article 51A (j)
Q. 23 Who among the following appoints the Election Commissioners of India?

Ans
Х 1. Vice President
X 2. Prime Minister
X 3. Attorney General
4. President
Q. 24 All changes in the weather of the earth are caused by the $\qquad$ _.
Ans $\times 1$. altitude
X 2. tides
3. sun

X4.moon
Q. 25 The rulers of which of the following dynasties built the Khajuraho temples between 950 to 1050 A.D in the central India?
Ans
X 1. Gurjara-Pratihara Dynasty
2. Rashtrakuta Dynasty

X 3. Pala Dynasty
4. Chandela Dynasty
Q. 26 Which of the following is NOT a part of the All India Services?

Ans $\times 1$. Indian Forest Service
2. Indian Engineering Service
3. Indian Administrative Service
4. Indian Police Service
Q. 27 The title of the autobiography of Rassundari Devi is:

Ans

1. Amar Jiban
2. Smritichitre: The Memoirs of a Spirited Wife
3. Aalo Aandhari
4. Raseedi Ticket
Q. 28 GATT was established in 1948 with $\qquad$ countries as the global trade organisation to administer all multilateral trade agreements by providing equal opportunities to all countries in the international market for trading purposes.
Ans
$\times 1.29$
5. 23
$\times 3.35$
X4.28
Q. 29 Which of the following Fundamental Rights CANNOT be suspended even when 'Emergency' is declared in the country?

Ans
X 1. Articles 22 and 23
2. Articles 20 and 21

X 3. Articles 19 and 20
X4. Articles 21 and 22

## Q. 30 Carbon dating means:

Ans $\times$ 1. a method to determine the density of fissile material
2. a method of calculating the remains of sulphur and nitrogen in hard rock
3. a method of calculating the age of very old objects by measuring the amounts of
different forms of carbon in them
X 4. a method of determination of weight of a very old rock
Q. 31 In which year was the National Commission for Protection of Child Rights established?

Ans
X 1.2014
2. 2007

X 3.2005
4. 2010
Q. 32 Through which of the following states does the National Waterway-96 pass?

Ans
X 1. Assam
X 2. Uttar Pradesh
3. Odisha

X 4. Madhya Pradesh
Q. 33 Sudha Chandran is a known actress and an accomplished $\qquad$ dancer
Ans
X 1. Kathakali
X 2. Kuchipudi
3. Bharatanatyam

X 4. Sattriya
Q. 34 In August 1907, Madam Bhikaji Cama became the first person to hoist Indian flag on foreign soil in:
Ans

1. Germany
$\times 2$. Belgium
2. Poland
3. Sweden
Q. 35 Mohiniyattam is associated with which Hindu God?

Ans
X 1. Ganapati
X 2. Brahma
3. Vishnu
4. Shiva
Q. 36 Growth with stability and progressive achievement of self-reliance was the objective of the $\qquad$ Five-Year Plan.
Ans

1. Fifth
2. Third
3. Fourth
4. Second
Q. 37 A species of grass named $\qquad$ is on the verge of extinction due to its insensitivity towards the environment.

Ans
X1. Helianthus annuus
2. Saccharum officinarum
3. Hubbardia heptaneuron
4. Bellis perennis
Q. 38 The Constitution provides for reservation of seats in the Lok Sabha and State Legislative Assemblies for the:

Ans

1. scheduled tribes
2. other backward classes
3. differently abled
4. women
Q. 39 Which of the following countries hosted the inaugural FIVB Volleyball Men's World Cup?
Ans
5. 1965, Poland

X 2. 1977, Japan
X 3. 1969, East Germany
X 4. 1981, Japan
Q. 40 The ratio between the nominal and real GDP is called $\qquad$ .

Ans $\times 1$. Net national income
2. Value added GDP
3. Green GDP
4. GDP deflator
Q. 41 Who was the captain of the Indian women's cricket team for World Cup - 2022?

Ans
X 1 . Shafali Verma
2. Mithali Raj

X 3. Smriti Mandhana
4. Harmanpreet Kaur
Q. 42 Which of the following is the formula of barium peroxide

Ans
$\times 1 . \mathrm{Ba}_{2} \mathrm{O}_{2}$
2. $\mathrm{BaSO}_{4}$
3. BaO
4. $\mathrm{BaO}_{2}$
Q. 43 Which of the following is the correct sequence of river lengths?

Ans

1. Ganga, Godavari, Krishna, Yamuna

X 2. Ganga, Yamuna, Godavari, Krishna
X 3. Godavari, Krishna, Ganga, Yamuna
X 4. Godavari, Ganga, Krishna, Yamuna
Q. 44 Which is NOT correct about the High Court?

Ans $\times 1$. It can deal with cases within the jurisdiction of the state.
X 2. It can hear appeals from the lower courts.
X 3. It can issue various writs for the protection of the Fundamental Rights.
4. It gives advisory opinion to the President of India.
Q. 45 The Mettur Dam is on which of the following rivers?

Ans

1. Cauvery

X 2. Krishna
3. Vaigai
4. Periyar
Q. 46 The Battle of Buxar was fought between the forces under the command of the British East India Company led by Hector Munro, and the combined armies of $\qquad$ .

Ans $\quad$ 1. Mir jafar, Siraj-ud-Daulah and Mughal Emperor Shah Alam II
2. Mir Qasim, Mughal Emperor Shah Alam \& Shuja-ud-daulah of Awadh
3. Mir Jafar, Mughal Emperor Bahadur Shah II, Shuja-ud-Daulah
4. Siraj-ud-Daulah, Shuja-ud-Daulah, Mughal Emperor Shah Alam II
Q. 47 Around the time of its arrival, the normal rainfall increases suddenly and continues constantly for several days. This is known as the $\qquad$ of the monsoon, and can be distinguished from the pre-monsoon showers.
Ans
$\times 1$. opening
2. burst
3. thrust
4. breaking
Q. 48 Which of the following elements are included in the same group in the periodic table?

Ans
Х 1. Ne, Ar, Na, Mg
X 2. He, Li, Mg, K
X 3. H, Li, Mg, Ca
4. H, Li, Na, K
Q. 49 Which of the following codes signify the Cold Climate with Dry Winters according to Koeppen?
Ans
X 1. EF
X2. Df
X 3.ET
4. Dw
Q. 50 The moon completes $\qquad$ rotation on its axis as it completes one revolution around the Earth

Ans $\times 1.3$
$\times 2.2$

- 3.1
$\times 4.4$

Section : Quantitative Aptitude
Q. 1 Two trains - A and B- having the lengths 195 m and 165 m , respectively, are running in the same direction on parallel lines. If the speed of $A$ and $B$ be $77 \mathrm{~km} / \mathrm{h}$ and $85 \mathrm{~km} / \mathrm{h}$, respectively, what will be the time (in seconds) taken by them to cross each other?
Ans

1. 162

X2. 164
$\times 3.160$
4. 166
Q. 2

If $a-\frac{1}{a-5}=10$, then the value of $(a-5)^{3}-\frac{1}{(a-5)^{3}}$ is:
Ans

1. 140
$\times 2.70$
2. 100
3. 120
Q. 3 A field is in the shape of a rectangle of length 90 m and breadth 75 m . In one corner of the field, a pit, which is 18 m long 15 m broad and 6 m deep, has been dug out. The earth taken out of it is evenly spread over the remaining part of the field. Find the rise in the level of the field?
Ans
$\times 1.27 \mathrm{~cm}$
4. 25 cm
$\times 3.28 \mathrm{~cm}$
4.24 cm
Q. 4 A seller uses faulty weight in place of a 2 kg weight and earns a $25 \%$ profit. He claims that he is selling on the cost price in front of the customers but uses a faulty weight. How much error is there in the 2 kg weight to gain $25 \%$ ?
Ans
X 1.250 g
5. 400 g
6. 500 g
7. 300 g
Q. 5 In the given figure, the length of arc $A B$ is equal to twice the length of radius $r$ of the circle. Find the area of sector $O A B$ in terms of the radius $r$.


Ans
$\times 1.3 r$
<2.2r
X $3 . \pi r^{2}$
4. $r^{2}$
Q. 6 The angles of a triangle are in the ratio 1:1:2. What percentage of the total internal angle is the greatest angle?
Ans

- $1.50 \%$

X 2. 65\%
X $3.45 \%$
4. $40 \%$
Q. 7 The average salary of all the employees in a company is Rs.14,000. The average salary of 5 technicians is Rs.18,000 and the average salary of the rest is Rs.13,200. The total number of employees in the company is:
Ans
$\times 1.28$
2. 30
$\times 3.29$
X4.27
Q. 8 Solve the following.

$$
\frac{24 \div \frac{3}{8} \text { of }(8+2 \times \overline{7-3})+\left[\frac{2}{11} \div \frac{4}{55}-\left\{\frac{5}{8}+\frac{6}{16}\right\}\right]}{32 \div \overline{15-7}+75 \div(6+15 \div 3+4)}
$$

Ans
$\times 1 . \frac{23}{27}$
$\times$ 2. $\frac{9}{2}$

- $3 . \frac{11}{18}$
$\times 4 . \frac{15}{19}$
Q. 9 A faulty weighing machine reads 1 kg when 900 gm is actually weighted on it. The shopkeeper marked the price of his goods by $10 \%$, but unfortunately he was caught by the metrology department and then they ordered him to repair his weighing machine and gave punishment to sell the goods at $10 \%$ discount on cost price for a month. If each customer is now paying ₹ 20 for 1 kg , then before the raid $\qquad$ amount they have paid for the same quantity. (Rounded off to two places of decimal)
Ans

1. ₹27.16
2. ₹ 27.04

X 3. ₹ 28.05
X4. ₹ 28.15
Q. 10 एक स्कूल में लड़कों और लड़कियों की संख्या का अनुपात क्रमशः $3: 4$ है। यदि लड़कों की संख्या में $10 \%$ की वृद्धि होती है और लड़कियों की संख्या में $15 \%$ की वृद्धि होती है, तो लड़कों की संख्या और लड़कियों की संख्या का नया अनुपात क्या होगा?

Ans

1. $\frac{33}{45}$
2. $\frac{35}{46}$
3. $\frac{33}{46}$
4. $\frac{46}{33}$
Q. $11 \triangle A B C$ and $\triangle D E F$ are two triangles such that $\triangle A B C \cong \triangle F D E$. If $A B=5 \mathrm{~cm}, \angle B=40^{\circ}$ and $\angle A=80^{\circ}$, then which of the following options is true?
Ans
5. $D F=5 \mathrm{~cm}, \angle E=60^{\circ}$

X2. $\mathrm{DE}=5 \mathrm{~cm}, \angle \mathrm{~F}=60^{\circ}$
X 3. $\mathrm{DE}=5 \mathrm{~cm}, \angle \mathrm{D}=60^{\circ}$
X4. $\mathrm{DE}=5 \mathrm{~cm}, \angle \mathrm{E}=60^{\circ}$
Q. 12 There are three papers in an examination. Marks obtained by four students have been tabulated below:

Who are the students who got the highest marks in P1, P2 and P3 respectively?

| Student | P1 | P2 | P3 |
| :--- | :--- | :--- | :--- |
| Mohit | 79 | 78 | 77 |
| Shivam | 73 | 87 | 80 |
| Vishal | 82 | 74 | 83 |
| Viraj | 77 | 89 | 86 |

Ans $\quad \times 1$. Viraj, Vishal, Mohit
2. Vishal, Viraj, Viraj

X 3. Shivam, Viraj, Vishal
X 4. Mohit, Viraj, Vishal
Q. 13 To do a certain task $X$ would take 3 times as long as $Y$ and $Z$ together; and $Z$ would takes 4 times as long as $Y$ and $X$ together. Three of them together can complete the task in 10 days. How much time is taken by $X$ and $Z$ to complete the task?
Ans
$\times 1.18 \frac{2}{9}$ days
$\times 2.20 \frac{1}{9}$ days
$\times 3.21 \frac{1}{9}$ days
4. $22 \frac{2}{9}$ days
Q. 14 On a certain sum, the difference between compound interest and simple interest at $10 \%$ per annum for 2 years is Rs.250. The sum is $\qquad$ .

Ans
1.Rs.25,450
2. Rs.26,550
3. Rs.25,000
4. Rs.26,000
Q. 15 If $A$ is greater than $B$ by $7, B$ is greater than $C$ by 16 , and $A+B+C$ is 255 , then the value of $3 A+C-4 B$ is:

Ans
-1. 5
$\times 2.10$
X3. 8
$\times 4.4$
Q. 16 Which of the following is a prime number?

Ans
$\times 1.54$
$\times 2.39$
$\times 3.68$

- 4.89
Q. 17 In an election between 2 parties $A$ and $B, A$ gets $37 \%$ of total votes cast and thus lost by 338 votes. The total number of casted votes is (assume none of the votes was declared invalid):
Ans

1. 1300

X2. 1500
X 3.1200
X4. 1800
Q. 18 Study the given graph and answer the question that follows.


What is the difference between the production of Company C in 2015 and the production of Company B in 2018?
Ans
X1.15,00,000 tonnes
2. 1,00,000 tonnes
3. 10,000 tonnes
4. 10,00,000 tonnes
Q. 19 The least common multiple of $a$ and $b$ is 42. The LCM of $5 a$ and $11 b$ is :

Ans

1. 2310

X2. 4620
$\times 3.210$
(4. 462
Q. 20 A thief is spotted by a policeman from a distance of 250 m . When the policeman starts the chase, the thief also starts running. Assuming that the speed of the thief is $10 \mathrm{~km} / \mathrm{h}$ and that of the policeman is $12 \mathrm{~km} / \mathrm{h}$, how far would the thief have run before he is caught?
Ans
X1.4 km
2. 1.25 km
3.3 km
4.2 km
Q. 21 If $\mathbf{2 5}$ persons can complete a work in 140 days, then how many persons will be required to complete the same work in 70 days?

Ans

1. 70
2. 50
$\times 3.40$
X4.80
Q. 22 If $p: q=4: 5, q: r=3: 4$ and $r: s=2: 5$, then $p: s$ is:

Ans
X1.2:5
2. $6: 25$
3. $5: 2$
4. $25: 6$
Q. 23 Four numbers are in the ratio $1: 2: 3: 5$. Two times their sum is 44 . Find the ratio in the numbers obtained by subtracting 3 from the cube of each number.

Ans
X 1.2:31:204:999
2. $3: 13: 208: 992$
3. $11: 67: 219: 1003$
4. $5: 61: 213: 997$
Q. 24 On a straight road, a bus is 30 km ahead of a car travelling in the same direction. After 3 hours, the car is 60 km ahead of the bus. If the speed of the bus is $\mathbf{4 2 \mathrm { km } / \mathrm { h } \text { , then find }}$ the speed of the car.
Ans
X $1.67 \mathrm{~km} / \mathrm{h}$
2. $72 \mathrm{~km} / \mathrm{h}$
3. $65 \mathrm{~km} / \mathrm{h}$
$4.59 \mathrm{~km} / \mathrm{h}$
Q. 25 What is the least value of $x$ so that the number $8 \times 5215$ becomes divisible by 9 ?

Ans
$\times 1.3$
X 2.1
-3. 5
4. 6
Q. 26 Find the perimeter of major sector of a circle of radius 12 metres, whose minor sector subtends an angle of $75^{\circ}$ at the centre.

Ans
$\times 1.24+5 \pi$ metres
2. $24+19$ T metres

X 3. $24-5 \pi$ metres
X 4.24-19m metres
Q. 27 If $x^{4}+\frac{1}{x^{4}}=1154$, where $x>0$, then what is the value of $x^{3}+\frac{1}{x^{3}}$ ?

Ans

1. 205
2. 214
3. 185
4. 198
Q. 28 The bar graph given here shows the data of the production of cars by three different companies $\mathrm{X}, \mathrm{Y}, \mathrm{Z}$ over the years.


The average production for 5 years was maximum for which company/companies?
Ans
$X 1 . Y$ and $Z$
X 2. Y
$X$ 3. $X$ and $Y$
4. X and Z
Q. 29 The percentage marks obtained by 6 students in different subjects are given below. The maximum marks for each subject have been indicated in the table.

| Subject <br> Students | Physics | Mathematics | Hindi | Geography | English | History |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Maximum marks $\rightarrow$ | 80 | 150 | 100 | 75 | 120 | 50 |
| P | 70 | 44 | 88 | 88 | 70 | 38 |
| Q | 90 | 40 | 54 | 92 | 65 | 40 |
| R | 85 | 32 | 70 | 64 | 55 | 30 |
| S | 75 | 70 | 58 | 80 | 60 | 35 |
| T | 65 | 60 | 45 | 88 | 50 | 42 |
| U | 60 | 50 | 60 | 72 | 25 | 48 |

What are the average marks obtained by all students in Geography?
Ans
X1.65.5
X2. 63.8

- 3.60 .5
$\times 4.58 .2$
Q. 30 The following table shows the percentage of marks obtained by five students -V , $\mathrm{W}, \mathrm{X}, \mathrm{Y}$ and Z - in five subjects.

| Subjects $\rightarrow$ | Maths | Physics | Chemistry | Botany | Hindi |
| :--- | :--- | :--- | :--- | :---: | :---: |
| Maximum Marks <br> $\rightarrow$ | 300 | 300 | 200 | 100 | 100 |
| Students $\downarrow$ |  |  |  |  |  |
| V | 60 | 80 | 90 | 100 | 95 |
| W | 90 | 70 | 80 | 70 | 40 |
| X | 70 | 90 | 95 | 80 | 75 |
| Y | 80 | 60 | 70 | 95 | 80 |
| Z | 90 | 50 | 80 | 85 | 85 |

What are the average marks, in percentage, obtained by X ?
Ans
X 1.76.5\%
X 2. 80.5\%

- 3. $82.5 \%$
$\times 4.85 .5 \%$


## Q. 31 <br> The value of $\frac{\sqrt[3]{-2744} \times \sqrt[3]{-216}}{\sqrt[3]{\frac{64}{729}}}$ is:

Ans
$\times 1.164$

- 2. 152

3. 189
4. 156
Q. 32 If $x=\frac{2 \sin \theta}{(1+\cos \theta+\sin \theta)}$, then the value of $\frac{1-\cos \theta+\sin \theta}{(1+\sin \theta)}$ is:

Ans
X1. $\frac{x}{(1+x)}$
2. X

X 3. $\frac{1}{x}$
X4. $\frac{(1+x)}{x}$
Q. 33 The value of $(1018) 2-1019 \times 1017+1015 \times 1012-1016 \times 1011$ is:

Ans

1. 1
2. 4
3. 3
4. 5
Q. 34 A number, when divided by 15 and 18 every time, leaves 3 as a remainder, the least possible number is:

Ans $\times 1.83$
$\times 2.103$
$\times 3.39$
4. 93
Q. 35 Marks scored by a student in different subjects are given in the table below

| Subjects | Marks <br> obtained <br> out of 100 |
| :--- | :--- |
| English | 55 |
| Hindi | 90 |
| Mathematics | 75 |
| Science | 80 |
| Foreign language | 90 |

Five marks are to be deducted from each subject due to shortage of attendance. The net average of the mean, median and mode of the marks obtained is $\qquad$ -.
Ans
$\times 1.79 .33$

- 2.77 .67

X 3.82 .66
$\times 4.73$
Q. 36 A mixer marked at Rs.2,300 is sold for Rs.2,024. What is the percentage of discount?

Ans
X $1.13 \%$
X2. $10 \%$
3. $12 \%$
(4.11\%
Q. 37 Simplify the following.
$81^{\frac{3}{4}}+[(20 \div 5$ of $3 \times 6)+\{(8 \div 24$ of 3$) \times 4\}-10 \div 5]-\left(\frac{1}{32}\right)^{-\frac{2}{5}}$
Ans
$\times 1.24 \frac{1}{4}$
X2. $21 \frac{1}{9}$
$\times 3$
3. $27 \frac{4}{5}$
4. $29 \frac{4}{9}$
Q. 38 The following table shows the number of students of seven colleges participating in extra co-curricular activities.

Read the table and answer the question given.

| College $\rightarrow$ | A | B | C | D | E | F | G |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Extra Co-Curricular <br> Activities $\downarrow$ |  |  |  |  |  |  |  |
| I | 150 | 250 | 450 | 50 | 350 | 250 | 150 |
| II | 50 | 150 | 150 | 50 | 50 | 50 | 50 |
| III | 100 | 50 | 400 | 125 | 100 | 500 | 150 |
| IV | 250 | 125 | 350 | 275 | 250 | 150 | 150 |

Percentage of the number of students in activity II to that of IV is: (consider up to two decimals)
Ans
X 1.45 .48 percent
2. 35.48 percent
$\times 3.34 .25$ percent
4. 39.18 percent
Q. 39 Determine the total surface area of a hemisphere closed at bottom. Radius of the hemisphere is $\sqrt{\frac{25}{\pi}}$ unit.
Ans

- 1.75 unit $^{2}$
$X 2.70$ unit $^{2}$
$X 3.60$ unit $^{2}$
$X 4.50$ unit $^{2}$
Q. 40 The ratio between the height and radius of the base of a cylinder is $7: 5$. If its volume is $14836.5 \mathrm{~cm}^{3}$, then find its total surface area (take $\pi=3.14$ ).
Ans
- $1.3391 .2 \mathrm{~cm}^{2}$
$\times 2.5391 .2 \mathrm{~cm}^{2}$
$\times 3.4391 .2 \mathrm{~cm}^{2}$
X $4.5591 .2 \mathrm{~cm}^{2}$
Q. 41 The following bar graph shows the production of various models of mobiles in the year 2019 and 2020. The total production is 40 lakhs during 2019 and 65 lakhs in 2020.


What is the total production of model A mobiles in 2020 and model E mobiles in 2019?

Ans
X1.39,00,000

- 2. 32,00,000

X 3.36,00,000
X4.21,00,000
Q. 42 The given graph shows the number(in hundreds) of trees axed in four cities during the period 2016-2020.


Find the year in which the least number of trees are axed.
Ans
$\times 1.2016$
X 2. 2020
2. 2019

X4. 2017
Q. 43 A tradesman marks his goods at $26 \%$ above the cost price. He allows his customer a discount of $12 \%$ on the marked price. His profit per cent is:
Ans

- $1.10 .88 \%$

X2.11.08\%
X $3.10 .50 \%$
$\times 4.10 \%$
Q. 44 If $x^{4}+x^{-4}=47, x>0$, then what is the value of $x+\frac{1}{x}-2$ ?

Ans
1.1
$\times 2.0$
$\times 3.5$
$\times 4.3$
Q. 45 If $\left\{\left(\frac{\sec \theta-1}{\sec \theta+1}\right)\right\}^{n}=\operatorname{cosec} \theta-\cot \theta$, then $n=$ ?

Ans $\times 1.1$
2.0.5
$\times 3 .-1$
X 4. -0.5
Q. 46 In $\triangle A B C, D E \| B C$ in such a way that A-D-B and A-E-C. If $m \downharpoonright A C B=40^{\circ}$, then $m\lfloor D A E$
$+m \angle A D E=$ $\qquad$ —.
Ans
$\times 1.240^{\circ}$
$\times 2.120^{\circ}$

- $3.140^{\circ}$
$\times 4.230^{\circ}$
Q. 47 What is the volume of a cube whose surface area is $54 \mathrm{~cm}^{2}$ ?

Ans
$\times 1.28 \mathrm{~cm}^{3}$
$\times 2.3 \mathrm{~cm}^{3}$

- $3.27 \mathrm{~cm}^{3}$
$\times 4.9 \mathrm{~cm}^{3}$
Q. $4816 \sec ^{2} A-16 \tan ^{2} A=$ $\qquad$ .
Ans
$\times 1.9$
$\times 2.0$
- 3.16
$\times 4.1$
Q. 49 The cost of two varieties of tea is ₹ 300 and ₹ 375 respectively. If both the varieties of tea are mixed together in the ratio $3: 2$, then what should be the price of mixed variety of tea per kg ?
Ans
X 1. ₹340

2. ₹ 330
$\times$ 3. ₹ 350
X4. ₹ 360
Q. 50

The value of $\left(2 \cos ^{2} \theta-1\right)\left[\frac{1+\tan \theta}{1-\tan \theta}+\frac{1-\tan \theta}{1+\tan \theta}\right]$ is:
Ans

1. 2

X2. 0
X3. $\frac{\sqrt{3}}{2}$
+4. 1

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

Ans

1. Vocifirous
$\times 2$. Affliction
X 3. Episcopal
X4. Innocuous
Q. 2 Select the INCORRECTLY spelt word.

Ans
X 1. Manipulate
X 2. Postulate
3. Stippulate
4. Calculate
Q. 3 Select the most appropriate synonym to replace the italicised word.

The smoke was bothering me, and I didn't want to ruin the party for all of you, so I
simply walked home.
Ans

1. despoil
< 2. fix
X 3. revamp
2. recover
Q. 4 Select the option that can be used as a one-word substitute for the given group of words/phrase.

Showing astute powers of judgement; clever and judicious
Ans

1. Shriek

X 2 . Shrift
3. Shrewd
4. Shrike
Q. 5 Select the most appropriate ANTONYM of the given word. Emulate
Ans
X 1. Respect
2. Neglect

X 3. Spoilt
4. Bash
Q. 6 Select the option that can be used as a one-word substitute for the given group of words.

One who does a thing for pleasure and not as a profession
Ans
X 1. Performer
2. Amateur
3. Professional
4. Ascetic

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

China expects to welcome back Indian students to resume their studies in the country.
Ans

1. cease
$X$ 2. usher
2. presume
3. announce
Q. 8 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.
The investors were / put off by the dirty / visage of the workshop.
Ans
4. visage of the workshop
5. put off by the dirty
6. No error
7. The investors were
Q. 9 Select the INCORRECTLY spelt word.

Ans

1. Abcission
2. Abstruse
3. Incision
4. Abyssal
Q. 10 Select the most appropriate ANTONYM of the given word.

Dull
Ans

1. Coloured
2. Bright
3. Clever
4. Youthful
Q. 11 Select the most appropriate idiom from the following options that can substitute the underlined part of the given sentence.
He is the most successful businessman. One of his traits is to take risk.
Ans
5. Throw caution to the wind

X 2. Talk through his hat
X 3. Fill somebody's shoes
X4. Tighten his belt
Q. 12 Select the most appropriate phrase for the underlined segment in the given sentence.

They are rivals and cannot work together in harmony
Ans
X 1. Potter about
X 2. Make up
X 3. Put down
4. Pull together
Q. 13 Select the most appropriate meaning of the given idiom.

Cutting corners
Ans
X 1. Investing in MNCs to get better returns and exchange
2. Doing something poorly in order to save time or money

X 3 Stitching clothes with a unique design
4. Cutting the edges to make it small and round
Q. 14 Select the most appropriate ANTONYM of the underlined word.

Spurious medicine can be fatal to the patient.
Ans

1. Genuine

X 2. Inferior
X 3. Contemptuous
X 4. Virtuous

## Q. 15 Select the most appropriate ANTONYM of the underlined word.

The entire environment was very hostile towards us.
Ans
X 1. Antagonistic
2. Favourable

X 3. Accurate
X 4. Handy
Q. 16 Select the option that can be used as a one-word substitute for the given group of words.

## A place for storage of arms and ammunition

Ans $\times 1$. Wardrobe
X 2. Warehouse
X 3. Granary
4. Arsenal
Q. 17 Select the most appropriate meaning of the given idiom. Call it a day
Ans
X 1. Call it as a bad day
2. Stop thinking in daytime

X 3. Call it as a good and productive day
4. Stop working on something
Q. 18 Select the correct meaning of the idiom in bold and italics.

I had a close shave this morning - my car was hit badly by a bull.
Ans $\quad \times 1$. In a position where one might receive severe criticism
2. To be carrying a wild look

X 3. To request someone to stay calm and not get annoyed
4. A narrow escape
Q. 19 Choose the correct meaning of the underlined idiom in the given sentence. Blue blood is not necessarily a guarantee of one's public decorum.

Ans
X 1. A person belonging to a middle-class family
2. A person belonging to an honest family
3. A person belonging to a poor family
4. A person belonging to a high family
Q. 20 Select the most appropriate meaning of the given idiom.

To make matters worse
Ans
X 1. No matter can become worse
X 2 . Sometimes situation can become worse
3. Make the situation worse

X 4. Matters can be worse
Q. 21 Identify the INCORRECTLY spelt word in the given sentence.

The pyramids that you see in Egypt were built by the Pharoh dynasties who ruled the ancient kingdom of Egypt for thousands of years.
Ans

1. Ensure
2. Pharoh

X 3. Strategy
X 4. Fulfillment
Q. 22 Select the most appropriate option that can substitute the underlined segment in the given sentence.

Antonio Stradivari was an Italian who is being made wonderful violins.
Ans

1. who made wonderful

X 2 . who have made wonderful
$X$ 3. who is made wonderful
4. who makes wonderful
Q. 23 Select the most appropriate option that can substitute the underlined segment in the given sentence.

I enjoy to be laugh at my little brother.
Ans $\times 1$ am enjoy to laughing at
人 2. enjoy laughed at
3. enjoy laughing at

4 4. have enjoy laughing at
Q. 24 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.

Psychology has been / defined the scientific study of / human psyche and behaviour.
Ans

1. defined the scientific study of
2. Psychology has been
3. human psyche and behaviour
4. No error
Q. 25 Identify the INCORRECTLY spelt word in the given sentence.

The graduate students have discovered that they can address issues more effectually through letter writing campaignes and not through public demonstrations.
Ans

1. address
2. discovered
3. campaignes
4. demonstrations
Q. 26 Select the most appropriate ANTONYM of the given word.

Scanty
Ans
X 1. Expedient
X 2. Paltry
X 3. Nasty
4. Abundant
Q. 27 Select the option that can be used as a one-word substitute for the given group of words.
Evoking a keen sense of sadness or regret
Ans
X 1. Pungent

- 2. Poignant

X 3. Impactful
X 4. Unaffecting
Q. 28 Select the most appropriate ANTONYM of the given word.

Asperity
Ans
X 1. Virility
2. Civility
$\times 3$. Acridity
$X$ 4. Curiosity
Q. 29 Identify the correct antonym for the following word.

With her spry and athletic build, she won the race easily.
Ans
X 1. Agile
2. Lethargic
$\times 3$. Sleuth
X 4. Workaholic
Q. 30 Read the given sentence and select the most appropriate ANTONYM of the word
'Deplete' from the following options.
Depletion of old things has become a fancy business as it brings back old memories
but at a high cost.
Ans

1. restore

X 2. old
$\times 3$. high
4. fancy
Q. 31 Select the most appropriate meaning of the given idiom.

Heart and soul
Ans
X 1. With complete honesty
Х 2. Front to front
3. With all the effort you can put
4. Feeling sympathy for someone
Q. 32 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
It is nothing else than / sheer foolishness that / you have decided / to resign.
Ans

1. It is nothing else than
2. sheer foolishness that
3. to resign
4. you have decided
Q. 33 Select the option that can be used as a one-word substitute for the given group of words.
Profitable, yielding financial gain
Ans
5. Ludicrous
6. Lucrative

X 3. Luddite
< 4. Lugger
Q. 34 Select the most appropriate option to fill in the blank.

Some people are in the habit of sharing $\qquad$ and bull story on unsuitable occasions.
Ans
X 1. fox
2. wolf
3. cock

X4. rooster
Q. 35 Select the most appropriate synonym to replace the italicised word.

Colossal granite obelisks were erected by only a few kings.
Ans

1. Gigantic
2. Lilliputian
3. Minute
4. Minuscule
Q. 36 Choose the correct meaning of the underlined idiom in the given sentence.

With two toddlers to handle and no house help at her disposal, Shilpa can never put her house in apple-pie order.
Ans
X 1. Completely messy
X 2. Smell-proof
3. Completely arranged

X 4. Ready for guests
Q. 37 Select the most appropriate option that can substitute the underlined segment in the given sentence.

When the weather is hot, I will like to eat ice cream.
Ans
X 1 . I shall like to eat
$\times 2$. I liked to eat
3. I like to eat

X4. I should like to eat
Q. 38 Select the option that can be used as a one-word substitute for the given group of words.
One who takes a dark view of things
Ans
X 1. Pedant
X 2. Periscope
3. Polyglot
4. Pessimist
Q. 39 Select the most appropriate ANTONYM of the underlined word.

His explanation is always concise.
Ans
X 1. Frank
2. Precise
3. Lengthy
4. Intelligent
Q. 40 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

As Simon had already been to the park, he lead the way for the other children.
Ans
$X$ 1. leading the way
2. lead away
3. led the way
4. No substitution required

## Comprehension:

Read the passage carefully and answer the following question.
Reservation is a part of 1 $\qquad$ action, which seeks to bring equality.
The Constitution (One Hundred and Twenty Fourth Amendment) Bill, 2019, seeks to provide for the advancement of 'economically weaker sections' of citizens. Article 15 of the Constitution 2 $\qquad$ discrimination against any citizen on the grounds of race, religion, caste, sex or place of birth. However, the government may make special provisions for the 3 $\qquad$ of socially and educationally backward classes or for Scheduled Castes or Scheduled Tribes. The Bill seeks to amend Article 15 to additionally permit the government to provide for the advancement of 'economically weaker sections'. Further, up to $10 \%$ of the seats may be 4 $\qquad$ for such sections for admission in educational institutions. Such reservation will not apply to minority educational institutions.

SubQuestion No: 41
Q. 41 Identify a suitable title for the passage above.

Ans $\times 1$. Prohibition of discrimination
X 2. Article 15
X 3. Constitution (124 ${ }^{\text {th }}$ Amendment) Bill 2019

- 4. Reservation for Equality


## Comprehension:

Read the passage carefully and answer the following question.
Reservation is a part of 1 $\qquad$ action, which seeks to bring equality.
The Constitution (One Hundred and Twenty Fourth Amendment) Bill, 2019, seeks to provide for the advancement of 'economically weaker sections' of citizens. Article 15 of the Constitution 2 $\qquad$ discrimination against any citizen on the grounds of race, religion, caste, sex or place of birth. However, the government may make special provisions for the
$\qquad$ of socially and educationally backward classes or for Scheduled Castes or
Scheduled Tribes. The Bill seeks to amend Article 15 to additionally permit the government to provide for the advancement of 'economically weaker sections'. Further, up to $10 \%$ of the seats may be 4 $\qquad$ for such sections for admission in educational institutions. Such reservation will not apply to minority educational institutions.

SubQuestion No : 42
Q. 42 Select the most appropriate option to fill in blank no. 1.

Ans $\times$ 1. effective
X 2. ineffective
X 3. directive

- 4. corrective


## Comprehension:

Read the passage carefully and answer the following question.
Reservation is a part of 1 $\qquad$ action, which seeks to bring equality.
The Constitution (One Hundred and Twenty Fourth Amendment) Bill, 2019, seeks to provide for the advancement of 'economically weaker sections' of citizens. Article 15 of the Constitution 2 $\qquad$ discrimination against any citizen on the grounds of race, religion, caste, sex or place of birth. However, the government may make special provisions for the 3 of socially and educationally backward classes or for Scheduled Castes or Scheduled Tribes. The Bill seeks to amend Article 15 to additionally permit the government to provide for the advancement of 'economically weaker sections'. Further, up to $10 \%$ of the seats may be 4 $\qquad$ for such sections for admission in educational institutions. Such reservation will not apply to minority educational institutions.

SubQuestion No : 43
Q. 43 Select the most appropriate option to fill in blank no. 2.

Ans
X 1. exhibits
2. prohibits

X 3. establishes
X4. inhibits

## Comprehension:

Read the passage carefully and answer the following question.
Reservation is a part of 1 $\qquad$ action, which seeks to bring equality.
The Constitution (One Hundred and Twenty Fourth Amendment) Bill, 2019, seeks to provide for the advancement of 'economically weaker sections' of citizens. Article 15 of the Constitution 2 $\qquad$ discrimination against any citizen on the grounds of race, religion, caste, sex or place of birth. However, the government may make special provisions for the
$\qquad$ of socially and educationally backward classes or for Scheduled Castes or
Scheduled Tribes. The Bill seeks to amend Article 15 to additionally permit the government to provide for the advancement of 'economically weaker sections'. Further, up to $10 \%$ of the seats may be 4 $\qquad$ for such sections for admission in educational institutions. Such reservation will not apply to minority educational institutions.

SubQuestion No : 44
Q. 44 Select the most appropriate option to fill in blank no. 3.

Ans $\quad$ 1. containment
X 2. postponement
2. advancement

X4. enhancement

## Comprehension:

Read the passage carefully and answer the following question.
Reservation is a part of 1 $\qquad$ action, which seeks to bring equality.
The Constitution (One Hundred and Twenty Fourth Amendment) Bill, 2019, seeks to provide for the advancement of 'economically weaker sections' of citizens. Article 15 of the Constitution 2 $\qquad$ discrimination against any citizen on the grounds of race, religion, caste, sex or place of birth. However, the government may make special provisions for the 3 of socially and educationally backward classes or for Scheduled Castes or Scheduled Tribes. The Bill seeks to amend Article 15 to additionally permit the government to provide for the advancement of 'economically weaker sections'. Further, up to $10 \%$ of the seats may be 4 $\qquad$ for such sections for admission in educational institutions. Such reservation will not apply to minority educational institutions.

SubQuestion No : 45
Q. 45 Select the most appropriate option to fill in blank no. 4.

Ans
X 1. preserved
2. reserved

X 3. deserved
X4. conserved

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A broad definition of wetlands (1) $\qquad$ ecosystems such as lakes and rivers, underground aquifers, swamps, coral reefs, and many others; but also, human-made artificial sites (2) $\qquad$ fishponds or reservoirs. Though they cover only around 6 per cent of the Earth's land surface, 40 per cent of all plant and animal species live or breed in them.
Wetlands are also vital for human wellbeing and security. More than a billion people across the world depend on them for their livelihoods, about one in eight people on Earth. According to the UN Environment Programme (UNEP), these ecosystems are also the unsung heroes of the climate crisis. In fact, they (3) $\qquad$ more carbon than any other ecosystem, with peatlands alone storing twice (4) $\qquad$ all the world's forests. And inland wetland ecosystems absorb excess water and help prevent floods and drought, something critical to help communities adapt to a changing climate.
In the words of Leticia Carvalho, Principal Coordinator for Marine and Freshwater at UNEP, healthy wetlands 'punch above their weight in terms of benefits'. The theme for the very first World Day is "Wetlands Action for People and Nature". It serves as an urgent call to act and to invest financial, human, and political capital, to save the world's wetlands from disappearing altogether - and to restore those areas already lost. Wetlands are disappearing three times (5) $\qquad$ forests and are Earth's most threatened ecosystem. In just 50 years since 1970-35 per cent of the world's wetlands have evaporated.

SubQuestion No : 46
Q. 46 Select the most appropriate option to fill blank 1.

Ans
X 1. leave out
X 2 . omit
X 3. excludes
4. includes

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A broad definition of wetlands (1) $\qquad$ ecosystems such as lakes and rivers, underground aquifers, swamps, coral reefs, and many others; but also, human-made artificial sites (2) $\qquad$ fishponds or reservoirs. Though they cover only around 6 per cent of the Earth's land surface, 40 per cent of all plant and animal species live or breed in them. Wetlands are also vital for human wellbeing and security. More than a billion people across the world depend on them for their livelihoods, about one in eight people on Earth. According to the UN Environment Programme (UNEP), these ecosystems are also the unsung heroes of the climate crisis. In fact, they (3) $\qquad$ more carbon than any other ecosystem, with peatlands alone storing twice (4) $\qquad$ all the world's forests. And inland wetland ecosystems absorb excess water and help prevent floods and drought, something critical to help communities adapt to a changing climate.
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SubQuestion No : 47
Q. 47 Select the most appropriate option to fill blank 2.

Ans $\times 1$. more as
Х 2. as much as
3. such as

X4. much as

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A broad definition of wetlands (1) $\qquad$ ecosystems such as lakes and rivers, underground aquifers, swamps, coral reefs, and many others; but also, human-made artificial sites (2) $\qquad$ fishponds or reservoirs. Though they cover only around 6 per cent of the Earth's land surface, 40 per cent of all plant and animal species live or breed in them.
Wetlands are also vital for human wellbeing and security. More than a billion people across the world depend on them for their livelihoods, about one in eight people on Earth. According to the UN Environment Programme (UNEP), these ecosystems are also the unsung heroes of the climate crisis. In fact, they (3) $\qquad$ more carbon than any other ecosystem, with peatlands alone storing twice (4) $\qquad$ all the world's forests. And inland wetland ecosystems absorb excess water and help prevent floods and drought, something critical to help communities adapt to a changing climate.
In the words of Leticia Carvalho, Principal Coordinator for Marine and Freshwater at UNEP, healthy wetlands 'punch above their weight in terms of benefits'. The theme for the very first World Day is "Wetlands Action for People and Nature". It serves as an urgent call to act and to invest financial, human, and political capital, to save the world's wetlands from disappearing altogether - and to restore those areas already lost. Wetlands are disappearing three times (5) $\qquad$ forests and are Earth's most threatened ecosystem. In just 50 years since 1970-35 per cent of the world's wetlands have evaporated.

SubQuestion No: 48
Q. 48 Select the most appropriate option to fill blank 3.

Ans
$X 1$. have
$\times 2$. has

- 3. store

X 4. stored

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A broad definition of wetlands (1) $\qquad$ ecosystems such as lakes and rivers, underground aquifers, swamps, coral reefs, and many others; but also, human-made artificial sites (2) $\qquad$ fishponds or reservoirs. Though they cover only around 6 per cent of the Earth's land surface, 40 per cent of all plant and animal species live or breed in them. Wetlands are also vital for human wellbeing and security. More than a billion people across the world depend on them for their livelihoods, about one in eight people on Earth. According to the UN Environment Programme (UNEP), these ecosystems are also the unsung heroes of the climate crisis. In fact, they (3) $\qquad$ more carbon than any other ecosystem, with peatlands alone storing twice (4) $\qquad$ all the world's forests. And inland wetland ecosystems absorb excess water and help prevent floods and drought, something critical to help communities adapt to a changing climate.
In the words of Leticia Carvalho, Principal Coordinator for Marine and Freshwater at UNEP, healthy wetlands 'punch above their weight in terms of benefits'. The theme for the very first World Day is "Wetlands Action for People and Nature". It serves as an urgent call to act and to invest financial, human, and political capital, to save the world's wetlands from disappearing altogether - and to restore those areas already lost. Wetlands are disappearing three times (5) $\qquad$ forests and are Earth's most threatened ecosystem. In just 50 years since 1970-35 per cent of the world's wetlands have evaporated.

SubQuestion No : 49
Q. 49 Select the most appropriate option to fill blank 4.

Ans $\times 1$. as long as
2. as much as
$\times 3$. as such as
X4. as more as

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
A broad definition of wetlands (1) $\qquad$ ecosystems such as lakes and rivers, underground aquifers, swamps, coral reefs, and many others; but also, human-made artificial sites (2) $\qquad$ fishponds or reservoirs. Though they cover only around 6 per cent of the Earth's land surface, 40 per cent of all plant and animal species live or breed in them.
Wetlands are also vital for human wellbeing and security. More than a billion people across the world depend on them for their livelihoods, about one in eight people on Earth. According to the UN Environment Programme (UNEP), these ecosystems are also the unsung heroes of the climate crisis. In fact, they (3) $\qquad$ more carbon than any other ecosystem, with peatlands alone storing twice (4) $\qquad$ all the world's forests. And inland wetland ecosystems absorb excess water and help prevent floods and drought, something critical to help communities adapt to a changing climate.
In the words of Leticia Carvalho, Principal Coordinator for Marine and Freshwater at UNEP, healthy wetlands 'punch above their weight in terms of benefits'. The theme for the very first World Day is "Wetlands Action for People and Nature". It serves as an urgent call to act and to invest financial, human, and political capital, to save the world's wetlands from disappearing altogether - and to restore those areas already lost. Wetlands are disappearing three times (5) $\qquad$ forests and are Earth's most threatened ecosystem. In just 50 years since 1970-35 per cent of the world's wetlands have evaporated.

SubQuestion No: 50
Q. 50 Select the most appropriate option to fill blank 5.

Ans

1. faster than
$X$ 2. fastest than
X 3. much than
X4. more than

## Sub Inspector in Delhi Police and Central Armed Police Forces Examination 2022

| Roll Number |  |
| :--- | :--- |
| Candidate |  |
| Name |  |
| Venue Name |  |
| Exam Date | 09/11/2022 |
| Exam Time | $12: 30$ PM - $2: 30$ PM |
| Subject | SICPO Paper I 2022 |

Section: General Intelligence and Reasoning
Q. 1 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 2 '.


Figure 1
Figure 2
Figure 3
Ans

- 1.5
$\times 2.3$
$\times 3.6$
$\times 4.1$
Q. 2 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
PLAN : QOMKBZOM :: SINK : TRJHOMLJ :: RUDE: ?
Ans 1.SQVTECFD

2. ECFDSQVT
3. ECFDECFD
4. SQVTSQVT
Q. 3 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
5. Cutiase
6. Cutlery
7. Cyan
8. Cyber
9. Cyclic

Ans $\quad$ 1.4,3,1,2, 5
X 2.3,4, 1, 2, 5
3. 1, 2, 3, 4, 5

X4.3,1,4,2,5
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(18,36,60)$
$(14,28,44)$
Ans
X 1. $(21,42,164)$
2. $(17,32,60)$
3. $(16,28,64)$

- 4. $(22,44,76)$
Q. 5 Select the option that represents the letters that, when sequentially placed from left to right in the blanks, will complete the letter series.
$s_{-} u u_{-} a r_{-} s t_{-} a a_{-} s_{-} u a_{-} r$
Ans $X 1$.stausrsta

2. stasursta
3.starussta
4.stasusrta
Q. 6 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.
(The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)
Riyal : Saudi Arabia
Ans
X 1. Lira : Armenia
3. Peso: Germany
4. Lira : Turkey
5. Mexico: Peso
Q. 7 Seven people, $P, Q, R, S, T, U$ and $V$ are sitting in a straight row, facing the north. Only two people sit to the right of U. Only two people sit to the left of R. Only two people sit between $U$ and $Q$. Only three people sit between $R$ and $V$. T is not an immediate neighbour of $U$. $S$ sits to the right of $U$. Who sits at the extreme right?
Ans
X1. Q
X2. S
3.V
<4.P
Q. 8 If I denotes ‘ $\because$ ', J denotes ' $x$ ', K denotes ' - ', and $L$ denotes ' + ', then what will come in place of '?' in the following equation?
448 I 8 L 17 K 12 J 6 L 19 = ?
Ans
$\times 1.14$
6. 20
(3. 16
$\times 4.18$
Q. 9 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. HSP
7. JQT

X 3. FUR
X4. LOL
Q. 10 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
$(111,208,313)$
$(36,12,42)$
Ans
X $1 .(41,69,107)$
2. $(66,92,151)$
3. $(120,224,342)$
4. $(28,51,73)$
Q. 11 If $\times$ means,$- \div$ means,+- means $\div$, and + means $\times$, then what will be the value of the following expression?
$125-25 \div 4+25 \times 4+10=$ ?
Ans
$\times 1.68$
$\times 2.62$
X 3.70

- 4.65
Q. 12 Select the figure that will replace the question mark (?) in the following figure series.


Ans


- 3. 


$\times 4$.


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Q. 13 Select the figure that will come in place of the question mark (?) in the following figure series.


Ans

$\checkmark 2$.


$\times 3 .$| $\equiv$ | 8 |
| :---: | :---: |
| 〇 | 0 |


$\times 4 .$| 111 |
| :---: |
| 0 |

Q. 14 Select the option figure in which the given figure is embedded (rotation is NOT allowed).

## $\Delta$

Ans
$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 15 Select the Venn diagram that best illustrates the relationship between the following classes.
Humans, Professionals, Girls
Ans

$\times 2$.

$\checkmark 3$.


Q. 16 Which of the given letter-clusters will replace the question mark (?) in the following
series?
BZTR, DBVT, FDXV, ?, JHBZ
Ans
X 1. IFZY
2. HFZX

X 3. HFZY
X 4. IFZX
Q. 17 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
$(626$ * 2$)$ * (11 * 9) * 69 * 240 * 103
Ans
Х2.,$+ \times,=, \div,+,-$
X $3 . \div,-, \times,=,-, \times$
Х4.,$+ \times,=,-, \div,+$
Q. 18 Which of the following numbers will replace the question mark (?) in the given series?
$18,20,43,133, ?$
Ans
$\times 1.532$
2. 537
$\times 3.536$
$\times 4.538$
Q. 19 If A denotes ' + ', B denotes ' $x$ ', C denotes ' - ', and $D$ denotes ' $\div$ ’, then what will be the value of the following expression?
90 C 20 B 1 A 36 D 2
Ans

- 1.88
$\times 2.38$
$\times 3.78$
$\times 4.86$
Q. $20 \mathrm{~A}, \mathrm{~B}, \mathrm{C}, \mathrm{D}, \mathrm{E}, \mathrm{F}, \mathrm{G}$ and H are sitting around a square table facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides.
G sits second to the right of $F$. B sits second to the right of A. C sits third to the right of $H$. E sits third to the right of $F$. C is not the immediate neighbour of $A$.
Who sits second to the right of $B$ ?
Ans
X1.E
- 2. C

X3.D
×4. A
Q. 21 Which letter-cluster will replace the question mark (?) to complete the given series?

KRPD, ?, QNRL, TLSP, WJTT
Ans
X 1. NQRH
X 2. NQRG
X 3.NPSG
4. NPQH
Q. 22 In a certain code language, 'CRUDE' is written as ' 5421183 ' and 'BOSTON' is written as '14152019152'. How will 'DOCKET' be written in that language?

Ans
X1.815611520
2. 401022630
3. 169251202
4. 205113154
Q. 23 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(67, 63, 64)
$(24,17,343)$
Ans

1. $(75,69,216)$
2. $(27,22,120)$
3. $(46,41,40)$
4. $(97,88,81)$
Q. 24 Which of the following numbers will replace the question mark (?) in the given series? 148, 269, 413, ?, 778

Ans
$\times 1.548$
$\times 2.512$
2. 582
$\times 4.614$
Q. 25 In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.
Statements:
All pens are books.
All books are novels.
All novels are good.
Conclusions:
I. Some novels are pens.
II. All books are good.

Ans

1. Both conclusions I and II follow.

Х 2. Neither conclusion I nor II follows.
X 3. Only conclusion I follows.
4. Only conclusion II follows.

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Q. 26 Select the Venn diagram that best illustrates the relationship between the following classes.
Hawa Mahal, Jaipur, Rajasthan
Ans

$\times 2$

$\times 3$.

$\times 4$


Q. 27 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose the figure that would most closely resemble the unfolded form of the paper.


Ans
$\checkmark 1$.

$\times 2$

$\times 3$.

$\times 4$.

Q. 28 Which of the following interchanges of signs would make the given equation correct?
$5-4 \div 2+7 \times 3=14$
Ans
$\times 1 . \div$ and +
2. $\times$ and -

X 3. - and $\div$
Xu. + and $\times$

## Q. 29 ' $R=S$ ' means ' $R$ is the mother of $S$ '.

' $R$ @ $S$ ' means ' $R$ is the father of $S$ '.
' $R \times S$ ' means ' $R$ is the father's sister of $S$ '.
' $R$ \# S' means ' $R$ is the sister of $S$ '.
' $R$ \$ S' means ' $R$ is the daughter of $S$ '.
' $R$ * $S$ ' means ' $R$ is the brother of $S$ '.
How is $Z$ related to $Y$ in the following expression?
$\mathbf{V} \times \mathbf{Y} \$ \times \mathbf{W}^{\text {* }} \mathbf{A} \$ \mathbf{Z}$
Ans
X 1. Sister
2. Mother
3. Father's sister
4. Mother's sister
Q. 30 Select the option that is related to the third term in the same way as the second term is related to the first term and sixth term is related to fifth term.
2:8:: 10 : ? :: 5 : 50
Ans
X1. 1000
$\times 2.40$
$\times 3.100$

- 4.200
Q. 31 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.
Ans

1. XUSO
( 2. NKHE
2. MJGD
3. WTQN
Q. 32 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 one showing ' 6 '.


Ans

- 1.1
$\times 2.2$
X3.4

4. 3
Q. 33 If $A$ denotes ' + ', $B$ denotes ' $x$ ', $C$ denotes ' - ', and $D$ denotes ' $\because$ ', then what will be the value of the following expression?
54 C 34 A 24 D 8 B 2
Ans
$\times 1.29$
$\times 2.23$

- 3.26
$\times 4.21$
Q. 34 Select the option that represents the letters that, when sequentially placed from left to right in the blanks, will complete the letter series.
${ }_{-} \mathrm{vp} \mathrm{p}_{-} \mathrm{lh} \mathrm{s}_{-} \mathrm{kI} \mathrm{I}_{-} \mathrm{hs} \mathrm{v}_{-} \mathrm{kII}$
Ans
(1.sklvpllh
2.sklvplph

X 3.slkvpkph
X4.sklpviph
Q. 35 In a certain code language, 'MOUNTAIN' is written as 'MNIATNUO' and 'SENTENCE' is written as 'SECNETNE'. How will 'BIRTHDAY' be written in that language?
Ans

1. BYADHTRI
2. BIYDHATR
3. YADHTRIB
4. YBIRHTDA
Q. 36 If $M$ denotes ' - ', $N$ denotes ' $\div$ ', $O$ denotes ' $\times$ ', and $P$ denotes ' + ', then what will come in place of '?' in the following equation?

162 N 6 M $\sqrt[3]{729}$ O 4 P $126=?$
Ans

1. 117
2. 125
3. 121
4. 112
Q. 37 Which of the option figures is the exact mirror image of the given problem figure when the mirror is held at the right side?

Problem figure:


Ans

Q. 38 Ahmet's house faces north. He came out of his house and walked straight for 40 m , turned left and walked for 30 m . He then turned right and walked for 35 m . Finally, he took another two successive right turns and covered 30 m and 25 m , respectively, to reach his final destination. How far and in which direction is he from his house now?

Ans $\quad \times 1.25 \mathrm{~m}$ due south
2. 50 m due north

X 3.15 m due north
X 4.25 m due east
Q. 39 Three Statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All D are V.
Some S are D.
No W is a S.
Conclusions:
I. Some W are not D.
II. Some $V$ are $S$.
III. Some D are S.

Ans $\times$ 1. Only Conclusion III follows.
X 2. Conclusions I, II and III follow.
3. Both Conclusions II and III follow.

X 4. Only Conclusion I follows.
Q. 40 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1. Satellite
2. Galaxy
3. Universe
4. Planet
5. Sun

Ans
X 1.1,3, 5, 4, 2
2. 3, 2, 5, 4, 1

X 3, 1, 2, 3, 4, 5
4. $3,4,5,1,2$
Q. 41 Select the figure that will come in place of the question mark (?) in the following figure series.


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$

$\times 4$

Q. 42 A man said to a lady, "Your mother's father-in-law is my father and I am the only son".How is that man related to that lady?
Ans
X 1. Brother
2. Father

X 3. Son
X 4. Father-in-law
Q. 43 Select the option that represents the letters that when placed from left to right in the blanks below will complete the letter series.
_LJ_GH_L_I_HM_J_G__LJ_GH
Ans
X 1. MMIJGILHMI
2. MIMJGLIHMI

X 3. IMMJGLIIMH
X 4. IMMGJLIHIM
Q. 44 In a certain code language, 'COURT' is written as 'ERWUV', and 'DANCE' is written as 'FDPFG'. How will 'EARTH' be written in that language?
Ans

1. GDTWJ
2. GDTWK
3. GDTVJ
4. GDTXJ
Q. 45 Deepa starts from her house and cycles 4 km towards the north and then turns left and cycles 6 km . She again turns left and cycles for $X \mathrm{~km}$ to reach her school. Point $A$ is to the east of her school and also 3 km to the south of her house. What is the value of $X$ ?

Ans
$\times 1.1 \mathrm{~km}$
2. 7 km
3.9 km
4.3 km
Q. 46 Select the option figure in which the given figure is embedded (rotation is NOT allowed).
$S$

Ans
$\times 1$

$\times 2$.

$\times 3$.

$\checkmark 4$.


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Q. 47 Three different positions of the same dice are shown. Find the number on the face opposite the face showing ' 3 '.


Figure 1
Ans $\times 1.5$
$\times 2.2$

- 3.1
$\times 4.4$
Q. 48 Select the option in which the given figure is embedded. (Rotation is NOT allowed)


Ans
$\times 1$.

$\times 2$.


3

Q. 49 Which of the following numbers will replace the question mark (?) in the given series?

357, 372, ?, 447, 507
Ans $\times 1.407$
$\times 2.417$
3.402

- 4.397
Q. 50 Which of the following numbers will replace the question mark (?) in the given series?

4, 9, 20, 43, 90, ?
Ans
$\times 1.181$
2. 184
3. 186
4. 185

Section: General Knowledge and General Awareness
Q. 1 Bacterial and fungal enzymes degrade detritus into simpler inorganic substances. This process is called as $\qquad$ .
Ans

1. catabolism
2. fragmentation
3. leaching
4. decomposition
Q. 2 Which of the following is NOT an allotrope of carbon?

Ans 1. Trisulfur
2. Diamond
3. Lonsdaleite
4. Graphite
Q. 3 "The vitamin is found in Liver, milk, eggs, fish. It helps in forming RBC. Deficiency of this vitamin causes anemia."
Which vitamin is being referred in the above statement?
Ans
X 1. Vitamin K
2. Vitamin B12
3. Vitamin C
4. Vitamin A
Q. 4 $\qquad$ is the interest rate at which the Reserve Bank absorbs liquidity from banks against the collateral of eligible government securities under the LAF.
Ans $\quad$ 1. SDF Rate
2. Reverse Repo Rate
3. Bank Rate
4. Repo Rate
Q. 5 What is the valency of Boron?

Ans
$\times 1.2$

- 2.3
$\times 3.4$
X4.1
Q. 6 Which Article of the Constitution of India abolishes the concept of 'untouchability' and prohibits its practice in any shape or form?
Ans
X 1. Article 20

2. Article 17

X 3. Article 18
X4. Article 19
Q. 7 Which of the following Fundamental Duty provisions has laid down that all Indians need to show respect to the Indian National Flag and the Indian National Anthem?

Ans
X 1. Article 51A (d)
2. Article 51A (a)
3. Article 51A (b)
4. Article 51A (c)
Q. 8 'Rongali Bihu', one of the major festivals of Assam, is celebrated in the month of :

Ans
X 1. May
X 2. January
$X$ 3. August
4. April
Q. 9 The decommissioned have lock bridge has been built over which of the following rivers?

Ans
X 1. Cauvery
X 2. Mahanadi
3. Krishna
4. Godavari

## Q. 10 Which of the following tax was taken not in cash but in the form of forced labour in

 Chola empire?Ans $\times 1$. Gudi
X 2. Puravu
3. Vetti

X4. Kadu
Q. 11 Who among the following organised the armed rebellion against the British Raj in 1879 in Maharashtra?
Ans

1. Vasudev Balwant Phadke
2. Birsa Munda

X 3. Buddhu Bhagat
X 4. Tikendrajit Singh
Q. 12 A Supreme Court or High Court judge can be removed by the Parliament by:

Ans $\quad$ 1. simple majority
X 2. both simple and two third majority
3. special majority

Х4. two third majority
Q. 13 The Paralympics Winter Games- 2022 was hosted by $\qquad$ .
Ans
X 1. USA
2. China
3. Japan
4. Australia
Q. 14 Select the correct statement regarding Indian monsoon.

Ans

1. A monsoon is a seasonal shift in wind direction. It can cause very low rainfall during the summer and heavy rainfall in the winter.
2. A monsoon is a sudden change in temperature. It can cause moderate rainfall during the summer and dry spells in the winter.
3. A monsoon is a seasonal shift in wind direction. It can cause heavy rainfall during the summer and dry spells in the winter.
4. A monsoon is a seasonal shift in wind direction. It can cause moderate rainfall during the summer and no rain in winter.
Q. 15 Which of the following countries was the runner-up in ICC Women's T20 World Cup 2020?

Ans

1. India
2. England
3. Australia
4. New Zealand
Q. 16 Which state in India received the largest number of immigrants, as per the 2001 Census?
Ans
X 1. Gujarat
5. Maharashtra

X 3. West Bengal
X 4. Uttar Pradesh
Q. 17 Which of the following is NOT a type of chromosome, on the basis of the location of the centromere?
Ans

1. Telocentric
2. Acrocentric
3. Lophocentric
4. Metacentric
Q. 18 Which of the following was originally a Fundamental Right, but in 1978 was made a legal right as per Article 300A?
Ans
X 1. Right against exploitation
5. Right to property

X 3. Right to education
4 4. Right to freedom of religion
Q. 19 Which of the following chemicals are vastly used in gunpowder of fireworks?

Ans
$\chi$ 1. Silver nitrate and charcoal
X 2. Silver nitrate and sulphur
X 3. Potassium sulphate and Phosphorous
4. Potassium nitrate, sulphur and charcoal
Q. 20 The $\qquad$ is a domestic first-class cricket competition played in India.
Ans $\quad \times 1 . B C$ Roy Trophy
2. Duleep Trophy
3. Maharaja Ranjit Singh Gold Cup
4. Beighton Cup
Q. 21 The Battle of Tukaroi also known as the Battle of Bajhaura or the Battle of Mughulmar was fought between the Mughal Empire and the Bengal Sultanate in which of the following year $\qquad$ ?
Ans
X 1.1595
2. 1585
3. 1532
4. 1575
Q. 22 Which of the following statement is correct according to plate tectonics?

Ans $\quad$ 1. A tectonic plate is a massive, regularly-shaped slab of solid rock.
2. The theory of plate tectonics proposes that the earth's lithosphere is divided into
seven major and some minor plates.
3. Plates move vertically over the asthenosphere as rigid units.

X 4. A tectonic plate is composed of only continental lithosphere.
Q. 23 The famous musician Ustad Sultan Khan is associated with which musical instrument?
Ans
X1. Drums
2. Sarangi
3. Tabla
4. Flute
Q. 24 Which of the following funds was created in 2005 to channelise funds received from disinvestment proceeds of PSUs?
Ans
X 1. National Public Fund
2. National Investment Fund
3. Disinvestment Fund
4. New Investment Fund

## Q. 25 Which of the following shows modernization to increase the production of goods and

 services?Ans $\times 1$. Adoption of old technique with large scale
2. Adoption of same technique in different way
3. Following western culture
4. Adoption of new technology
Q. 26 The Kadamba Dynasty was an ancient royal dynasty of the modern day:

Ans
X 1. Odisha
X 2. Kerala
X 3. Bihar
4. Karnataka
Q. 27 In which Five-Year Plan was advocated planning shifted from agriculture to industries?

Ans
$X 1$. Third
2. Fourth
3. Second
4. Fifth
Q. 28 Nupur Arts' Artistic Director is 2021's recipient of the One Dance UK Lifetime Achievement Award in South Asian Dance.
Ans
X 1. Aashrita Kamath
2. Smita Vadnerkar
3. Vasudha Misra
4. Dundhu Renjeev
Q. 29 संविधान में न्यायिक पुनर्विलोकन पद का कितनी बार उल्लेख हुआ है?

Ans
X1.15
$\times 2.20$
3. कहीं भी उल्लेख नहीं
-4.10
Q. 30 Who among the following was the first woman to learn the all-male style of Kathakali and was also the founder of Darpana Academy Of Performing Arts that caters to various performing arts like dance, music, drama and puppetry?
Ans
X 1. Vidyagauri Adkar
2. Mrinalini Sarabhai

X 3. Anjali Mehra
X4. Niveditha Arjun
Q. 31 निम्नलिखित में से कौन-सा भारतीय राज्य, अंग्रेजों के साथ सहायक संधि पर हस्ताक्षर करने वाला पहला राज्य था?

Ans

1. हैदराबाद
2. कोचीन
3. त्रावणकोर
4. मराठा
Q. 32 निम्नलिखित राज्यों में से किसमें सर्वाधिक वर्षा होती है?

Ans
X1. राजस्थान
2. गुजरात
3. महाराष्ट्र
4. असम
Q. 33 At which of the following places was the formal proclamation of the Swadeshi movement made on 7 August 1905?
Ans
X 1. Wellington Square, Calcutta
2. Calcutta Town Hall

X 3. Kanai Dhar Lane, Calcutta
X 4. Bengal National College, Calcutta
Q. 34 The organisers of Wimbledon Open did NOT allow players of two countries to compete in the Wimbledon 2022.One of them was Russia, which was the other country?
Ans $\times 1$. Estonia
2. Belarus

X 3. China
4. Ukraine
Q. 35 In which element group of the periodic table are fluorine, chlorine, bromine and iodine included?

Ans

1. Actinides
2. Chalcogen
3. Lanthanides
4. Halogen
Q. 36 What percentage of earth's water is fresh?

Ans
X 1.4 .8 percent
X 2.5 .2 percent
3. 3.9 percent
4. 2.7 percent
Q. 37 Mahadev Govind Ranade was primarily associated with the:

Ans
X 1. Arya Samaj
2. Sadharan Brahmo Samaj
3. Prarthana Samaj
4. Brahmo Samaj
Q. 38 Starches found in breads, cereals and pasta are made up of long chains of $\qquad$ .

Ans $\times 1$. cellulose
2. glucose
3. maltose
4. galactose
Q. 39 In which year did Teejanbai, the well- known artist of Pandavani music win the Padma Vibhushan?
Ans
X 1.2020
2. 2019
3. 2021
4. 2017
Q. 40 Which of the following books is NOT written by Ruskin Bond?

Ans
$X$ 1. The Room on the Roof
X 2. The Blue Umbrella
3. Midnight's Children

X 4. Roads to Mussoorie
Q.41 Ustad Bade Ghulam Ali Khan, a musical genius, learnt which of the following gharanas of music from his father at an early age?
Ans
X 1. Benaras
2. Kasur Patiala
3. Jaipur-Atrauli
4. Gwalior
Q. 42 The world famous Kathak dancer Pandit Birju Maharaj was the face of the KalkaBindadin gharana of $\qquad$ -.
Ans
X1. Dharwad
2. Lucknow

X 3. Bhopal
X 4. Agra
Q. 43 Which of the following regions has more seasonal contrast than other regions of India?
Ans

1. Interiors of India

X 2. Coastal areas of India
X 3. Hilly areas of India
X 4. Islands of India
Q. 44 How much time was taken to frame the Constitution of India?

Ans
X 1.3 years, 6 months and 23 days
2. 2 years, 11 months and 17 days
3.4 years, 3 months and 29 days
4.1 year, 10 months and 15 days
Q. 45 निम्नलिखित में से कौन सा संसदीय प्रश्न का एक प्रकार नहीं है?

Ans
$X$ 1. अल्प सूचना प्रश्न
2. दीर्घ सूचना प्रश्न
3. तारांकित प्रश्न
4. अतारांकित प्रश्न
Q. 46 In 1898, whose theory propounded that the ions/groups bonded to the metal by secondary bonding have spatial arrangements corresponding to different characteristics coordination number?

Ans

1. Henry Taube
2. Alfred Werner
3. Erich Huckel
4. Emil Fischer
Q. 47 भारत में ठंडे मौसम (शीत ऋतु) के दौरान निम्न में से कौन सी प्रबल हवाएं बहती हैं?

Ans

1. स्थायी पछुआ हवाएं
2. स्थायी पूर्वी हवाएं
3. दक्षिण-पश्चिमी व्यापारिक पवनें
4. उत्तरपूर्वी व्यापारिक पवनें
Q. 48 Thiruvathira is a cultural festival of which of the following Indian states?

Ans
X 1. Karnataka
2. Kerala

X 3. Telangana
4. Tamil Nadu
Q. 49 As of March 2022, which of the following monuments is NOT a UNESCO World Heritage Site in India?
Ans $\quad$ 1. Qutub Minar, Delhi
2. Charminar, Hyderabad
3. Agra Fort, Agra
4. Red Fort, Delhi
Q. 50 Which of the following river rise in the Nepal Himalaya?

Ans

1. Gandak

X 2. Chambal
X 3. Godavari
X 4. Narmada

Section : Quantitative Aptitude
Q. 1 In a right triangle for an acute angle x , find $\sin \mathrm{x}$. It is given that $\tan \mathrm{x}=5$.

Ans
$\times 1 . \frac{1}{3}$
$\times 3 . \frac{5}{\sqrt{(26)}}$
$\times 4 . \frac{5}{\sqrt{(28)}}$
Q. 2 A boat can travel 104 km downstream in 8 hours. If the speed of the stream is $\mathbf{2 k m} / \mathrm{h}$, then find in what time will it be able to cover 13 km upstream?
Ans
X1. $2 \frac{2}{3}$ hours
2. $1 \frac{4}{9}$ hours

X 3. $2 \frac{1}{2}$ hours
X4. $1 \frac{2}{3}$ hours
Q. $372 \div 8 \times[\{(57-49) \div 2\}+\{(85-60) \div 5\}-\{(28-19) \div 3\}]$ is equal to:

Ans $\times 1.56$
$\times 2.46$

- 3.54
$\times 4.60$
Q. 4

In the given figure, $\mathrm{AB}=8 \mathrm{~cm} ; \mathrm{AC}=17 \mathrm{~cm}$. What is the length of AD ?


Ans
X 1.4 .68 cm
2. 5.36 cm
3. 3.76 cm
4.8 .5 cm
Q. 5 Two trains start from Delhi and Poona towards each other at 7 a.m. with speeds of 85 $\mathrm{km} / \mathrm{h}$ and $67 \mathrm{~km} / \mathrm{h}$, respectively. If they cross each other at $3.30 \mathrm{p} . \mathrm{m}$. , the distance between the stations is:
Ans
X 1.1245 km
2. 1292 km

X 3.1283 km
X4. 1227 km
Q. 6 If $a+b+c=10$ and $a^{2}+b^{2}+c^{2}=48$, then the value of $a b+b c+c a$ is $\qquad$ .
Ans
X 1.25
2. 26
$\times 3.24$
X4. 18
Q. 7 The following pie chart shows the contribution (in Rs.) of some investors in the corpus fund of a company. If total contribution by these investor is $100 \%$, then what is the percentage contribution of Rakesh in the corpus fund ?

## Contribution in corpus fund



Ans

- $1.17 .30 \%$

X 2. 18.12\%
X 3.17.95\%
4.16.95\%
Q. 8 The value of $1801 \times 1801$ is:

Ans
X 1.3423601
2. 3243601
3. 2343601
4. 3243106
Q. 9 Refer to the following table. Read the table and answer the question. Food grain Production in a country in
1999. (in lakh tons)

| State | Rice | Wheat | Jowar | Pulses | Other |
| :--- | :--- | :--- | :--- | :--- | :--- |
| P | 55 | 113 | -- | 37 | 39 |
| Q | 58 | 96 | 83 | 29 | 25 |
| R | 69 | 42 | 77 | 24 | 41 |
| S | 51 | 47 | 69 | 31 | 25 |
| T | 47 | 32 | 51 | 23 | 21 |
| U | 78 | 25 | 22 | -- | 28 |
| V | 67 | 18 | 17 | 22 | 20 |
| W | 48 | 38 | 41 | 32 | 55 |

State P alone produce how much percentage of wheat out of the total wheat production in the country?
Ans $\times 1.22 .50$ percent.
2. 27.50 percent.

X 3. 25.50 percent.
4. 23.50 percent.
Q. 10 A policeman sees a thief at a distance of 150 m . He starts chasing the thief who is running at a speed of $5 \mathrm{~m} / \mathrm{sec}$, while the policeman chases with a speed of $7 \mathrm{~m} / \mathrm{sec}$. Find the distance covered by the thief when he is caught by the policeman.
Ans
X 1.285 m
X2. 325 m

- 3.375 m

X4.295m
Q. 11 If the number 647592 is divisible by 88 and if the digits are rearranged in increasing order, then the new number thus formed will be divisible by:

Ans
$\times 1.22$
$\times 2.66$
3. 44
4. 03
Q. 12 On selling a car to Anuj, Aman suffered a loss of 10\%. Anuj sold the car for Rs. $5,54,400$ suffering a loss of $12 \%$. What would be the cost price of the car for Aman?
Ans

1. Rs. $7,00,000$
2. Rs. $8,00,000$
3. Rs. $6,50,000$
4. Rs. $7,50,000$
Q. 13 A can do a piece of work in 10 days, while A and B together can complete it in $2 \frac{1}{2}$ days. How long will B alone take to complete the work?

Ans

1. $\frac{3}{10}$ days
2. $\frac{10}{3}$ days
$x$
3. 3 days

X4. 4 days
Q. 14 The following Bar Graph displays the highest, average and lowest marks obtained in Accounts, Business Studies, Economics and English by students of Class XII in an Examination. The maximum marks for each subject is 100 . Study the graph carefully and answer the question that follows:

The highest, average and the lowest marks obtained in
Accounts, Business Studies, Economics and English by students of Class XII in an Examination


Which of the two Highest Scores is better and by how much?
The combined Highest Score of Accounts and Business Studies or the Highest Score of Economics and English taken together.

Ans
$\boldsymbol{X}$ 1. Economics and English by 10
2. Accounts and Business Studies by 9
3. Accounts and Business Studies by 8
4. Economics and English by 8
Q. 15 The following table shows the percentage of population of three states below poverty line and the proportion of boys and girls.

| State | Percentage of population below <br> poverty line |  | Proportion of boys and girls |  |
| :---: | :--- | :---: | :---: | :---: |
|  | Below poverty line | Above poverty line |  |  |
| A | 25 | $3: 4$ | $4: 3$ |  |
| B | 60 | $2: 4$ | $1: 2$ |  |
| C | 15 | $4: 5$ | $3: 1$ |  |

If the total population of state B is 3000 , then what is the number of girls below poverty line in state B?
Ans 1.1200
$\times 2.700$
$\times 3.650$
$\times 4.720$
Q. 16 Simplify.
$\sin 8 \theta \cos \theta-\sin 6 \theta \cos 3 \theta$
$\cos 2 \theta \cos \theta-\sin 3 \theta \sin 4 \theta$
Ans
$X 1 \cdot \cot \theta$
2. $\cot 2 \theta$
3. $\tan \theta$
4. $\tan 2 \theta$
Q. 17 The population of 7 villages is shown in the following pie chart.


What is the difference between the population of village D \& E, if the total population of the all the villages is 60000 ?

Ans
$\times 1.400$
$\times 2.800$
3.500
4. 600
Q. 18 A hemispherical bowl whose radius is 21 cm is full of ice cream. Find the volume of the ice cream. (take $\pi=\frac{22}{7}$ )

Ans

1. $20000 \mathrm{~cm}^{3}$
2. $21000 \mathrm{~cm}^{3}$
3. $22000 \mathrm{~cm}^{3}$
4. $19404 \mathrm{~cm}^{3}$
Q. 19 The number of persons rose by $20 \%$ to 30,942 in a year. What was the population originally a year ago?
Ans
X 1.25585
5. 25785

X 3.25758
×4. 23785
Q. 20 Bhavani spent 15\% of his monthly income on kid's education and 20\% on food. 40\% of the remaining she spent on sports and $30 \%$ on transport. She is left with an amount of Rs.10,257 after all these expenditures. What is Bhavani's monthly income?

Ans $\quad$ 1. Rs.45,800
2. Rs. 48,000
3. Rs.52,600
4. Rs. 81,965
Q. 21 The monthly income of two persons is in the ratio 4:5 and their expenditures are in the ratio 7 : 9. If each saves Rs. 50 per month, then their monthly incomes are:
Ans
X 1.Rs.900; Rs. 500
2. Rs. 400 ; Rs. 500
3. Rs.700; Rs. 900
4. Rs.400; Rs. 700
Q. 22 What is the value of ' $a$ ' in the below equation?
$\left\{(5 \times 5 \times 5 \times 5 \times 5 \times 5)^{5} \times(5 \times 5 \times 5 \times 5 \times 5)^{8}\right\} \div(5 \times 5)=(625)^{a}$
Ans $\times 1.14$
2. 17
3. 16
4.15
Q. 23 How many of the following numbers are divisible by 156 ?

312, 620, 936, 1402, 1872, 3216, 7176, 8108.
Ans
1.5
2. 3
3. 4
4. 2
Q. 24

The value of $\frac{(x-y)^{3}+(y-z)^{3}+(z-x)^{3}}{\left(x^{2}-y^{2}\right)^{3}+\left(y^{2}-z^{2}\right)^{3}+\left(z^{2}-x^{2}\right)^{3}}$ where $x \neq y \neq z$,is:
Ans

1. 0
2. $\frac{1}{(x+y+z)}$
3. $\frac{1}{(x+y)(y+z)(z+x)}$
4. 1
Q. 25 The value of $\left(\sin ^{4} 45^{\circ}+\cos ^{4} 60^{\circ}\right)+\left(\tan ^{4} 45^{\circ}+\cot ^{4} 45^{\circ}\right)$ is:

Ans

1. $\frac{37}{16}$
2. $\frac{33}{16}$
3. $\frac{35}{16}$

X4. $\frac{39}{16}$
Q. 26 The population of four villages in 4 years is presented in the following table.

| Village/Year | 2018 | 2019 | 2020 | 2021 |
| :--- | :--- | :--- | :--- | :--- |
| A | 12381 | 12800 | 13045 | 13256 |
| B | 10089 | 11478 | 11502 | 11931 |
| C | 7896 | 7942 | 8069 | 8275 |
| D | 5152 | 5230 | 5346 | 5500 |

What is the percentage increment in the population of village A in 2021 as compared to the population in the year 2018? (Correct up to two decimal place.)

Ans
1.8.07
2. 7.07
$\times 3.6 .89$
X4.9.63
Q. 27 A frustum of a right circular cone, whose height is 18 cm , large base radius is 25 cm , and small base radius is 20 cm , is melted to form a small sphere of diameter $\mathbf{2 ~ c m}$. How many spheres will be formed?

Ans
X 1.6287
2. 6862

X 3.4575
X4.5857
Q. 28 A person offers a $15 \%$ discount on his garments, and he offers a further discount of $10 \%$ on the reduced price to those customers who pay cash. What will a customer have to pay in cash for a jacket of Rs.3,600?
Ans
X 1. Rs.3,240
2. Rs.3,366
3. Rs.2,754
4. Rs.3,060
Q. 2912 men or 20 boys can finish a work in 10 days. What part of the same work will be done by 4 men and 4 boys in 4 days?

Ans

1. $\frac{49}{75}$
2. $\frac{16}{75}$
3. $\frac{26}{75}$
4. $\frac{59}{75}$
Q. 30 Find the difference between the simple interest and the compound interest payable annually on a sum of Rs.6,500 at 7\% per annum for 3 years. (Correct to two decimal places.)
Ans
X 1.Rs.94.34
5. Rs.97.78

X 3. Rs.98.73
X4.Rs.95.67
Q. 31 If $a+b+c=10 ; a^{2}+b^{2}+c^{2}=38$, what is the value of $(a-b)^{2}+(b-c)^{2}+(c-a)^{2}$ ?

Ans
× 1.15
$\times 2.12$

- 3.14
$\times 4.13$
Q. 32 The following table represents the number of computers (numbers in thousands) manufactured by four companies from period 2014 to 2016. Study the table carefully and answer the following question.

| Years | A | B | C | D |
| :---: | :---: | :---: | :---: | :---: |
| 2014 | 1350 | 750 | 630 | 810 |
| 2015 | 570 | 520 | 1280 | 990 |
| 2016 | 420 | 1170 | 650 | 580 |

For the years 2014 to 2016, what is the difference (numbers in thousands) between the combined production of computers by Companies A and D and the production of computers by Companies B and C taken together?

Ans
$\times 1.460$
2. 280
$\times 3.370$
4.310
Q. 33 A car covers a particular distance in 3 hours with the speed of $54 \mathrm{~km} / \mathrm{h}$. If the speed is increased by $27 \mathrm{~km} / \mathrm{h}$, the time taken by the car to cover the same distance will be:
Ans

## 1. 2 h

2. 1 h
3. $2 \frac{1}{2} \mathrm{~h}$
4. $1 \frac{1}{2} \mathrm{~h}$
Q. 34 Class 10, consisting of 40 students, took a science test. 30 students had an average score of 95 . The other students had an average score of 85 . What is the average score of the whole class?
Ans
5. 92.3
6. 92.5
7. 92.4
8. 92.2
Q. 35 Shivi drives her car on three different ways to reach the destination. Determine the average speed during this journey.

| Way | Speed <br> $(\mathrm{km} / \mathrm{h})$ | Distance <br> $(\mathrm{km})$ |
| :--- | :--- | :--- |
| A | 38 | 114 |
| B | 42 | 84 |
| C | 46 | 230 |

Ans

* $1.42 .8 \mathrm{~km} / \mathrm{h}$

X $2.41 .5 \mathrm{~km} / \mathrm{h}$
X $3.43 .5 \mathrm{~km} / \mathrm{h}$
$4.41 .8 \mathrm{~km} / \mathrm{h}$
Q. $36 P Q$ and $R S$ are two parallel chords of a circle such that $P Q$ is 48 cm and $R S$ is 40 cm . If the chords are on the opposite sides of the centre and the distance between them is 22 cm , what is the radius (in cm) of the circle?

Ans

- 1.25
$\times 2.24$

3. 35
4. 22
Q. 37 Study the given bar-graph and answer the question that follows.

The bar-graph shows the export of rice (in ₹ lakh) during five years.


The average export of rice for the years 2010 to 2014 (in ₹ lakh) was:
Ans
$\times 1.13 .28$
X 2.14 .78

- 3.15 .88

X 4.16 .56
Q. 38 The areas of two similar triangles $A B C$ and PQR are $64 \mathrm{~cm}^{2}$ and $144 \mathrm{~cm}^{2}$, respectively.If the greatest side of the smaller $\triangle A B C$ is 24 cm , then what is the greatest side of the bigger $\triangle P Q R$ ?
Ans
$X 1.32 \mathrm{~cm}$
$\times 2.24 \mathrm{~cm}$
X 3.42 cm
4.36 cm
Q. 39 Water is flowing through a cylindrical canal with an internal diameter of 7 m at the speed of $18 \mathrm{~km} / \mathrm{h}$. Find the volume of water flowing through the canal in 30 minutes. (take $\pi=\frac{22}{7}$ )
Ans
$\times 1.3,76,500 \mathrm{~m}^{3}$
2. $3,56,500 \mathrm{~m}^{3}$
3. $3,66,500 \mathrm{~m}^{3}$
4. $3,46,500 \mathrm{~m}^{3}$
Q. 40 The sum of two numbers is 1224 and their HCF is 68 . The number of pairs of numbers satisfying the above condition is:

Ans

1. 3
2. 4
3. 6
4. 2
Q. 41 The number of factors of 196 which are divisible by 4 is:

Ans
$\times 1.228$
2.4
3. 57
4. 3
Q. 42 The value of $(1+\cot A-\operatorname{cosec} A)(1+\tan A+\sec A)-1$ is:

Ans

1. 1
$\times 2.2$
$\times 3.3$
4.0
Q. 43 The ratio of two numbers is $4: 5$, and their HCF is 3 . What is their LCM?

Ans
$\times 1.48$
$\times 2.80$

- 3.60
$\times 4.36$
Q. 44 A shopkeeper allows a discount of $15 \%$ on a text book with the marked price Rs. 100 On request, he further allows a discount of $10 \%$ on the new price of the goods. What is the overall discount given to the customer?
Ans

1. Rs. 23.50

X 2. Rs. 75.00
X 3.Rs. 25.00
4. Rs. 76.50
Q. 45 If two tangents to a circle of radius 3 cm are inclined to each other at angle of $60^{\circ}$, then the length of each tangent is:
Ans
$\times 1 . \frac{3 \sqrt{3}}{4} \mathrm{~cm}$
2. $3 \sqrt{3} \mathrm{~cm}$3. 3 cm
$x 4.6 \mathrm{~cm}$
Q. 46 A grocer sells rice at $10 \%$ profit and uses weights which are $\mathbf{2 0 \%}$ less than the market weight. The total gain earned by him is:
Ans
$\times 1.33 \frac{1}{3} \%$
$\times 2.20 \%$
$\times 3.40 \%$
4. $37.5 \%$

```
Q.47 The monthly income of Ramesh was Rs.16,500 and his monthly expenditure was
    Rs.10,500. Next year his income increased by 25% and his expenditure increased by
    19%. Find the percentage increase in his saving.
Ans
<1.33.5%
< 2.34.5%
X 3.32.5%
    4. 35.5%
```

Q. 48

The following table shows the number of candidates from different locations, who appeared and passed in a competitive examination over the years.

| Year | Rural |  | Semi-urban |  | State capitals |  | Metropolises |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | App. | Passed | App. | Passed | App. | Passed | App. | Passed |
| $\mathbf{1 9 9 0}$ | 1652 | 208 | 7894 | 2513 | 5054 | 1468 | 9538 | 3214 |
| $\mathbf{1 9 9 1}$ | 1839 | 317 | 8562 | 2933 | 7164 | 3248 | 10158 | 4018 |
| $\mathbf{1 9 9 2}$ | 2153 | 932 | 8139 | 2468 | 8258 | 3159 | 9695 | 3038 |
| $\mathbf{1 9 9 3}$ | 5032 | 1798 | 9432 | 3528 | 8529 | 3628 | 11247 | 5158 |
| $\mathbf{1 9 9 4}$ | 4915 | 1658 | 9784 | 4015 | 9015 | 4311 | 12518 | 6328 |
| $\mathbf{1 9 9 5}$ | 5628 | 2392 | 9969 | 4263 | 1725 | 4526 | 13624 | 6419 |

What approximate value was the percentage drop in the no. of semi-urban candidates, who appeared from 1991 to 1992 ?

Ans
X1.15\%
X2.8\%

- $3.5 \%$
X. $4.10 \%$
Q. 49 A hemisphere has 42 cm diameter. Find its curved surface area and the total surface area.
Ans
- $1.2772 \mathrm{~cm}^{2}, 4158 \mathrm{~cm}^{2}$
$\times 2.3772 \mathrm{~cm}^{2}, 5158 \mathrm{~cm}^{2}$
X $3.4770 \mathrm{~cm}^{2}, 4238 \mathrm{~cm}^{2}$
X4. $3072 \mathrm{~cm}^{2}, 4058 \mathrm{~cm}^{2}$
Q. 50 If three numbers are in the ratio of $1: 3: 7$, and their LCM is 336 , then their HCF is:

Ans

- 1.16
$\times 2.18$
$\times 3.10$
$\times 4.12$

Section : English Comprehension
Q. 1 Select the most appropriate meaning of the given idiom. Be on the breadline
Ans
X 1. Having plenty of money
2 2. Find a successful way of making money
X 3. Earn a lot of money very easily
4. Be very poor
Q. 2 Select the INCORRECTLY spelt word.

Ans
X 1. Auxiliary
2. Aclaim
3. Believe
4. Absence
Q. 3 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
"Mrs. Pooja is / very busy at / the moment." / "All right. I had been waiting."
Ans
X 1. the moment."
2. "All right. I had been waiting."
3. very busy at
4. "Mrs. Pooja is
Q. 4 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The lease of our house has run down.
Ans
(1. run into
2. run apart
3. run out
4. run up to
Q. 5 Select the INCORRECTLY spelt word.

Ans

1. Illicite

X 2. Illegal
X 3. Impunity
4. Illegible
Q. 6 Select the most appropriate synonym of the given word. Radiant

Ans

1. Dismal
2. Frowning
3. Glowing
4. Depressing
Q. 7 Select the most appropriate synonym of the bracketed word to fill in the blank.

All the $\qquad$ (delicate) things were kept/packed in a different box while shifting to a new place.
Ans
X 1. crude
X 2. durable
X 3. coarse
4. fragile
Q. 8 Select the most appropriate ANTONYM of the given word.

Annoy
Ans
X 1. Graze
2. Mystify
3. Employ
4. Satisfy
Q. 9 Select the option that expresses the given sentence in passive voice.

She blew the candles on the cake.
Ans

1. The candles on the cake were blew by her.
2. The candles on the cake were blown by her.
$\times$ 3. The candles on the cake were being blown by her.
3. The candles on the cake is blown by her.
Q. 10 Select the most appropriate ANTONYM of the given word.

Assiduous
Ans
$X$ 1. Belligerent
$X$ 2. Meticulous
3. Idle

X 4. Idyllic
Q. 11 Select the INCORRECTLY spelt word.

Ans

1. Panick
2. Panicked
3. Picnicked
4. Picnic
Q. 12 Select the most appropriate ANTONYM of the given word.

Stupendous
Ans

1. Terrible
2. Smart

X 3. Perfect
4. Jealous
Q. 13 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

This is the worse famine this country has seen in a decade.
Ans
X 1. most worse
2 2. very worst
3. No substitution required
4. the worst
Q. 14 Select the option that can be used as a one-word substitute for the given group of words/phrase.

Cause to continue; keep up; preserve (a state of affairs, an activity etc)
Ans
X 1. maintop
X 2. mainly
3. maintain

X 4. mainstay
Q. 15 Select the option that can be used as a one-word substitute for the given group of words.

A person who introduces the performers or contestants in a variety show
Ans
X 1. Calligrapher
X 2. Compeer
3. Compere

X 4. Cypher
Q. 16 Select the most appropriate ANTONYM of the capitalised word in the given sentence.

The fanatics are trying to OBSTRUCT the peace process.
Ans

1. Disrupt
2. Assist

X 3. Spoil
4. Repress
Q. 17 Select the most appropriate meaning of the given idiom.

Crying wolf
Ans
$\chi 1$. To be in pain by getting hit by something
2. To frighten someone in your comfort zone
3. To ask for help when you don't need it
4. To cry over little things that don't matter
Q. 18 Select the most appropriate synonym of the given word.

Glee
Ans
X 1. Anxiety
2. Abhorrence
3. Mirth
4. Distress
Q. 19 Identify the INCORRECTLY spelt word in the given sentence.

Spices have exhibited numerous health benefits in preventing and treating a wide variety of diseases such as cancer, ageing, metabolic, neurological, cardiovascular and inflamatory diseases.
Ans

1. inflamatory
2. neurological
3. numerous
4. metabolic
Q. 20 Select the most appropriate meaning of the given idiom.

Belly laugh
Ans
X 1. Mocking someone
$X$ 2. Laughing with inhibition
3. A loud and unrestrained laugh

X4. To be subjected to mockery and ridicule
Q. 21 Select the option that can be used as a one-word substitute for the given group of words.
Taking heed or care; being conscious
Ans

1. Mindful
2. Mindless
3. Mindset
4. Mind-read
Q. 22 Select the most appropriate meaning of the underlined idiom.

When grandmother found her granddaughter's collection like her numismatist daughter's, she knew her granddaughter is a chip off the old block.
Ans
X 1. Changed
2. A person who is similar in behaviour or actions to his/her parents

X 3. Damaged
4. Getting obsessed
Q. 23 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

He and his father take a ride every morning to the top of the hill.
Ans

1. taking a ride
2. No substitution required

X 3. takes an ride
X 4. takes a ride
Q. 24 Select the most appropriate synonym of the given word. Prodigal
Ans
X1. Economical
X 2. Scrimping
3. Extravagant

X 4. Conserving
Q. 25 Identify the INCORRECTLY spelt word in the given sentence. If Rajat had realised that Meena was in destress, he would have definitely done something to bail her out.
Ans
X1. bail
X 2. definitely
3. destress
4. realised

## Q. 26 Select the most appropriate meaning of the given idiom.

A mare's nest
Ans

1. Deep crisis
2. Simple and interesting work
3. Complicated situation
4. Area of law
Q. 27 Select the most appropriate meaning of the given idiom.

Beside oneself
Ans

1. Almost out of one's senses
2. In the secret
3. Under all conditions
4. To stand for one's own fault
Q. 28 Select the most appropriate option that can substitute the underlined segment in the given sentence.
Ms. Suma was a bit apprehensive about doing so much in just one day, but it was all plain sailing.
Ans
X1. boring
5. very easy

X 3. mentally and physically exhausting
4. risky
Q. 29 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Between Raima and Saima, the former is intelligent, while the latter is beautiful.
Ans
$X 1$. later is
2. letter is
3. No substitution required
4. later was
Q. 30 Select the option that can be used as a one-word substitute for the given group of words.

The scientific study of worms and insects
Ans

1. Entomology

X 2. Anatomy
X 3. Zoology
X 4. Anemology
Q. 31 Select the most appropriate synonym of the given word. Populous
Ans

1. Crowded

X 2. Inactive
X 3. Sleepy
4. Lifeless
Q. 32 Select the most appropriate ANTONYM of the given word.

Consummate
Ans

1. Inept

X 2. Ideal
X 3. Soothing
4. Worrisome
Q. 33 Select the most appropriate synonym to replace the italicised word.

We also must do something about our mental and physical lethargy.
Ans
$X 1$. eagerness
X 2. enthusiasm
3. hebetude
4. vigour
Q. 34 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.
Everyone was surprised/at his indefatigable courage and determination / to achieve what he desired.

Ans
X 1. Everyone was surprised
X 2. To achieve what he desired
3. No error

X4. At his indefatigable courage and determination
Q. 35 Select the option that can be used as a one-word substitute for the given group of words.
The quality of being honest and having strong moral principles
Ans
X 1 . Stuck-up
2. Integrity

X 3. Uptight
X4. Ridicule
Q. 36 Select the option that can be used as a one-word substitute for the given group of words.

The one who makes maps and charts
Ans
< 1. Artist
2. Cartographer

X 3. Geographer
X 4. Sculptor
Q. 37 Select the most appropriate synonym of the given word.

Reluctant
Ans
X 1. Definite
2. Hesitant

X 3. Confident
4. Indiscreet
Q. 38 Select the idiom that can correctly replace the underlined part of the given sentence.

It was a very important meeting, but I stayed cool as ice because I knew our product was the best.
Ans
X 1. cool as a cake
2. cool as a cucumber

X 3. cool as a carrot
X 4. cool as a cabbage
Q. 39 Select the most appropriate meaning of the given idiom.

To give someone the cold shoulder
Ans

1. To ignore someone
$X 2$. To carry the burden of everyone
2. To be carried on someone's back
3. To listen to someone with empathy
Q. 40 Select the most appropriate meaning of the given idiom.

True colours
Ans
X 1. Black and white
X 2. Light colours
3. Real character
$\times 4$. Bright colours

## Comprehension:

Read the given passage and answer the questions that follow.
Migaloo is by far one of the world's most recognisable whales, because he is completely white. Thanks to genetic sampling of Migaloo's skin, scientists have identified that he's male, and his albino appearance is a result of a variation in the gene responsible for the colour of his skin.
Simply by looking different, Migaloo has become an icon within Australia's east coast humpback whale population. Indeed, Migaloo has his own Twitter account with over 10,000 followers, and website where fans can lodge sightings and learn more about humpback whales.
He was first discovered in 1991 off Byron Bay, Australia, and has since played hide and seek for many years, with many not knowing where or when he'll show up next. He's even surprised Kiwi fans by showing up in New Zealand waters.
With the last official sighting two years ago, the time has once again come for us to ask: where is Migaloo?
Already this year there have been false sightings, such as a near all white whale spotted off New South Wales. To make things more confusing, regular-looking humpbacks can trick whale watchers when they flip upside down, due to their white bellies.

SubQuestion No : 41
Q. 41 What is the theme of the passage?

Ans $\times 1$. Protection of whales
X 2. The extinction of Migaloo
3. The sighting of Migaloo
4. Whale hunting and its aftermath

## Comprehension:

Read the given passage and answer the questions that follow.
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SubQuestion No : 42
Q. 42 How can regular-looking humpbacks trick whale watchers?

Ans
X 1. By posting tweets on Twitter
2. By appearing secretly and unexpectedly
3. By showing their white coloured bellies

X 4. By displaying their huge size

## Comprehension:

Read the given passage and answer the questions that follow.
Migaloo is by far one of the world's most recognisable whales, because he is completely white. Thanks to genetic sampling of Migaloo's skin, scientists have identified that he's male, and his albino appearance is a result of a variation in the gene responsible for the colour of his skin.
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Already this year there have been false sightings, such as a near all white whale spotted off New South Wales. To make things more confusing, regular-looking humpbacks can trick whale watchers when they flip upside down, due to their white bellies.

SubQuestion No : 43
Q. 43 Where was Migaloo first discovered?

Ans $\times 1$. South Wales
2. Australia

X 3. Jamaica
X 4. New Zealand

## Comprehension:

Read the given passage and answer the questions that follow.
Migaloo is by far one of the world's most recognisable whales, because he is completely white. Thanks to genetic sampling of Migaloo's skin, scientists have identified that he's male, and his albino appearance is a result of a variation in the gene responsible for the colour of his skin.
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He was first discovered in 1991 off Byron Bay, Australia, and has since played hide and seek for many years, with many not knowing where or when he'll show up next. He's even surprised Kiwi fans by showing up in New Zealand waters.
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Already this year there have been false sightings, such as a near all white whale spotted off New South Wales. To make things more confusing, regular-looking humpbacks can trick whale watchers when they flip upside down, due to their white bellies.

SubQuestion No : 44
Q. 44 Select the suitable word given in the passage which means 'turn over with a sudden quick movement'.
Ans
X1. Albino
2. Flip

X 3. Humpback
X 4. Lodge

## Comprehension:

Read the given passage and answer the questions that follow.
Migaloo is by far one of the world's most recognisable whales, because he is completely white. Thanks to genetic sampling of Migaloo's skin, scientists have identified that he's male, and his albino appearance is a result of a variation in the gene responsible for the colour of his skin.
Simply by looking different, Migaloo has become an icon within Australia's east coast humpback whale population. Indeed, Migaloo has his own Twitter account with over 10,000 followers, and website where fans can lodge sightings and learn more about humpback whales.
He was first discovered in 1991 off Byron Bay, Australia, and has since played hide and seek for many years, with many not knowing where or when he'll show up next. He's even surprised Kiwi fans by showing up in New Zealand waters.
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Already this year there have been false sightings, such as a near all white whale spotted off New South Wales. To make things more confusing, regular-looking humpbacks can trick whale watchers when they flip upside down, due to their white bellies.

SubQuestion No : 45
Q. 45 What is the tone of the speaker?

Ans $\times 1$. Pessimistic
2. Descriptive

X 3. Cynical
X 4. Melancholic

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It was a cool and windy day. Shiela, Zora, Lamba and I were (1) $\qquad$ our way to the Park to play on the slides. On our way (2) $\qquad$ , Shiela (3) $\qquad$ something stuck to her shoe. "Must be a (4) $\qquad$ of chewing gum or something," she muttered as she (5) down to remove the object. What she removed from her shoe was a dirty note of five hundred rupees!

SubQuestion No : 46
Q. 46 Select the most appropriate option to fill in blank 1.

Ans

- 1. on
$\times 2$. to
$\times 3$ in
X4.by


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It was a cool and windy day. Shiela, Zora, Lamba and I were (1) $\qquad$ our way to the Park
to play on the slides. On our way (2) $\qquad$ Shiela (3) $\qquad$ something stuck to her
shoe. "Must be a (4) $\qquad$ of chewing gum or something," she muttered as she (5) down to remove the object. What she removed from her shoe was a dirty note of five hundred rupees!

SubQuestion No : 47
Q. 47 Select the most appropriate option to fill in blank 2.

Ans $\times 1$. when
$X$ 2. their
X 3. where

- 4. there


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It was a cool and windy day. Shiela, Zora, Lamba and I were (1) $\qquad$ our way to the Park to play on the slides. On our way (2) $\qquad$ , Shiela (3) $\qquad$ something stuck to her
shoe. "Must be a (4) $\qquad$ of chewing gum or something," she muttered as she (5) down to remove the object. What she removed from her shoe was a dirty note of five hundred rupees!

SubQuestion No : 48
Q. 48 Select the most appropriate option to fill in blank 3.

Ans
X 1. thought
2. felt
$\times$ 3. found
X4. had

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It was a cool and windy day. Shiela, Zora, Lamba and I were (1) $\qquad$ our way to the Park
to play on the slides. On our way (2) $\qquad$ Shiela (3) $\qquad$ something stuck to her
shoe. "Must be a (4)__ of chewing gum or something," she muttered as she (5) down to remove the object. What she removed from her shoe was a dirty note of five hundred rupees!

SubQuestion No: 49
Q. 49 Select the most appropriate option to fill in blank 4.

Ans
X 1. packet
2. piece

X 3. part
X 4. block

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

It was a cool and windy day. Shiela, Zora, Lamba and I were (1) $\qquad$ our way to the Park to play on the slides. On our way (2) $\qquad$ Shiela (3) $\qquad$ something stuck to her
shoe. "Must be a (4) $\qquad$ of chewing gum or something," she muttered as she (5)
down to remove the object. What she removed from her shoe was a dirty note of five hundred rupees!

SubQuestion No : 50
Q. 50 Select the most appropriate option to fill in blank 5.

Ans $\times 1$. bind
$X$ 2. bend
X 3. went

- 4. bent


## Sub Inspector in Delhi Police and Central Armed Police Forces Examination 2022

| Roll Number |  |
| :--- | :--- |
| Candidate |  |
| Name |  |
| Venue Name |  |
| Exam Date | 09/11/2022 |
| Exam Time | 4:00 PM - $6: 00$ PM |
| Subject | SICPO Paper I 2022 |

Section: General Intelligence and Reasoning
Q. 1 If A denotes ' + ', B denotes ' $\times$ ', C denotes ' - ', and D denotes ' + ', then what will be the value of the following expression?

10 B 19 A 10 D 10 C $\quad 7=$ ?
Ans
.
$\times 2.165$
$\times 3.180$
$\times 4.140$
Q. 2 Which of the following numbers will replace the question mark (?) in the given series?
$35,51,76,112$, ?
Ans
X1. 162
$\times 2.158$

- 3.161
$\times 4.164$
Q. 3 Select the option that represents the letters that when placed from left to right in the blanks below will complete the letter series.
_ZW_V_Y_WX_UY_W_V__ZW_VU
Ans

1. YXUZVZXUYX

X 2. XYUZZVXUXY
X 3. XYUZVXZUXY
4. YXZUXZUYXV
Q. 4 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(9, 55, 64)
$(7,43,50)$
Ans
X $1 .(7,42,50)$
X 2. $(8,32,41)$
× 3. $(4,17,21)$
4. $(5,31,36)$
Q. 5 Two Statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some windows are houses.
Some windows are roofs.
Conclusions:
I. Some roofs are houses.
II. Some roofs are windows.

Ans $\quad$ 1. Neither conclusion I nor II follows
2. Only conclusion I follows.
3. Both conclusions I and II follow.
4. Only conclusion II follows.
Q. 6 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

Dj37bw
N
Ans
$X$ 1. $M q \mathcal{L}!\mathbf{q}$
จ2. $\mathbf{w d r \varepsilon i} \mathbf{l}$
$\times$ 3. $\boldsymbol{m d \Gamma \Sigma j G}$

Q. 7 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans
$\times 1$.

$\checkmark 2$.

$\times 3$.

$\times 4$.

Q. 8 If $\mathbf{P}$ denotes ' $x$ ', $\mathbf{Q}$ denotes ' $\div$ ', R denotes ' + ', and $S$ denotes ' - ', then what will come in place of '?' in the following equation?
94 R 16 Q 2 P 7 S 64 R 13 P 2 = ?
Ans
X1. 120
$\times 2.118$
$\times 3.108$
4. 112
Q. 9 Select the Venn diagram that best illustrates the relationship between the following classes.
Bag, Leather, Cloth
Ans
$\times 1$

$\times 2$.

3.

$\times 4$.

Q. 10 उस विकल्प का चयन कीजिए जो तीसरे शब्द से उसी प्रकार संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से संबंधित है। (शब्दों को अर्थपूर्ण हिंदी शब्दों के रूप में माना जाना चाहिए और शब्द में अक्षरों की संख्या / व्यंजनों / स्वरों की संख्या के आधार पर एक-दूसरे से संबंधित नहीं होने चाहिए।) बढ़ाना (Increase) : घटाना (Diminish) :: मुस्कुराना (Smile) : ?

Ans
$\times 1$. पलक झपकाना (Wink)
$X$ 2. हंसना (Laugh)
3. चिल्लाना (Shout)
4. मायूस होना (Frown)
Q. 11 Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
$(130$ * 4$)$ * 21 * 485 * ( 28 * 2)
Ans
1.,,$+-=,-, x$
2. $\div,+,=,-, \times$
3. $\times,-,=,-, \div$
4. $\times,-,=,+, \div$
Q. 12 Select the figure that will replace the question mark (?) in the following figure series.

|  | $3 \operatorname{los}$ | $\overbrace{\sqrt{0}}^{04}$ | ? |
| :---: | :---: | :---: | :---: |

Ans

$\times 2$

v 3.

$\times 4$.

Q. 13 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
Ans
X 1. EHJM
X 2. PSUX
X 3. SVXA
4. NPSU
Q. 14 Pratima departs from her house and walks 29 m towards the north and then turns right and walks 16 m . Now she turns right again and walks 17 m . She again takes a right turn and stops after walking for 21 m . What is the shortest distance between Pratima and her house now? (Assuming that all turns are 90 degree turns only)
Ans
$\times 1.17 \mathrm{~m}$
X2. 18 m

- 3.13 m

X4.12m
Q. 15 In a certain code language, 'SOMEONE' is written as ' 1645655 ' and 'BRINJAL' is written as '2995113'. How will 'NOVEMBER' be written in that language?
Ans

1. 56454259

X 2. 45253258
X 3.56254251
4. 56455259
Q. 16 Select the option that represents the letters which when sequentially placed from left to right in the blanks below will complete the letter series.
TR $\qquad$ Q T _ E W_ T. WQ_RG_Q
Ans $\times 1$.DWSQSFTW
X 2. DWSQRFTW
3. DWRQRFTW

X4.EWRQRFTW
Q. 17 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?
KGB, JFA, IEZ, HDY, ?
Ans
$\times 1$. GKB
2. GCX
3. GCB
4. BGK
Q. 18 Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:
No pin is a tin.
Some pins are wins.
Conclusions:
I. All wins are tins.
II. Some wins are pins.

Ans

1. Only conclusion I follows.

X 2. Both conclusions I and II follow.
3. Only conclusion II follows.
4. Neither conclusion I nor II follows
Q. 19 Seven people, $P, Q, R, S, T, U$ and $V$ are sitting in a straight row facing the north. Only two people sit to the right of U. Only two people sit to the left of R. Only two people sit between $U$ and $Q$. Only three people sit between $R$ and $V$. T is not an immediate neighbour of $U$. $S$ sits to the right of $U$. How many people sit between $Q$ and $V$ ?

Ans
$\times 1.2$
$\times 2.1$
$\times 3.3$
-4.4
Q. 20 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
54 * 6 * 72 * 8 * 3 * 15
Ans

- $1 . \div,+, \div,-,=$

人2. $\div,-,-,+,=$
X $3 .+, \div, \times,+,=$
人4.․,-, -, +, =
Q. 21 If 30 April 1983 was a Saturday, then what was the day of the week on 13 August 1989?

Ans
X 1. Thursday
2. Sunday

X 3. Monday
4. Friday
Q. 22 A paper is folded and cut as shown below. How will it appear when unfolded?


Ans

$\times 2$.

$\times 3$.

$\checkmark 4$.

Q. 23 Which of the following numbers will replace the question mark (?) in the given series?
$13,14,14$, ?, 176
Ans $\times 1.148$
2. 22
$\times 3.38$
$\times 4.42$

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Q. 24 Select the figure from among the given options that can replace the question mark (?) in the following series.


Ans

$\times 2$.

$\checkmark 3$.

$\times 4$

Q. 25 Select the figure that will come next in the following figure series.


Ans


- 3. 


$\times 4$.

Q. 26 Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing the north. Only two people sit to the left of C. Only two people sit between $A$ and $B$. $B$ sits to the left of $A$. $E$ is an immediate neighbour of $A$ to the right. Only one person sits to the right of $D$. $F$ is not an immediate neighbour of $B$. How many people sit between $E$ and $B$ ?
Ans
$\times 1$. Four
X2. One
X 3. Two
4. Three
Q. 27 Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.

Ans

1. QMKH
2. PLJG
3. ZTSQ
4. WSQN
Q. 28 Which option represents the correct order of the given words as they would appear in the English dictionary?
1 Kelvin
2 Kegel
3 Keto
4 Kennel
5 Kernel
Ans
5. $2,1,4,5,3$

X 2. 1,4,3,2,5
X 3.2,3,1,4,5
X 4.1,2,4,5,3
Q. 29 Rajesh drives 4 km towards west from point $A$ and takes right turn and drives 8 km . He again takes right turn and drives 8 km . He again takes one more right turn and drives 4 km . Finally, he takes a right turn and drives 4 km to reach point $B$. How far and towards which direction should he drive in order to reach point $A$ again?
Ans
X 1.3 km towards north
2. 2 km towards east
3.4 km towards south
4.4 km towards west
Q. 30 A \# $B$ means ' $A$ is the father of $B$ '.
$A$ @ $B$ means ' $A$ is the son of $B$ '.
$A \& B$ means ' $A$ is the sister of $B$ '.
$A \% B$ means ' $A$ is the wife of $B$ '.
If W \# Q @ T \& Y @ M \% K, then how is K related to W?
Ans
X1. Brother
X 2. Brother-in-law
3. Father-in-law

X 4. Father
Q. 31 If $A$ denotes ' + ', $B$ denotes ' $x$ ', $C$ denotes ' - ', and $D$ denotes ' $\because$ ', then what will be the value of the following expression?
23 C 46 D 23 B 3 A 65
Ans

1. 82
$\times 2.87$
X 3.84
4.85
Q. 32 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

B42drh $\left.\right|_{N} ^{M}$
Ans dybSAg
2. $h$ ybS $4 \mathbf{g}$
3. $\mathbf{h} \boldsymbol{y} \boldsymbol{b} \boldsymbol{\nabla} \boldsymbol{g}$
×4. $\boldsymbol{\mu \perp \boldsymbol { p } \boldsymbol { \gamma } \boldsymbol { q }}$
Q. 33 Select the Venn diagram that best illustrates the relationship between the following classes.
Monument, Taj Mahal, White House
Ans

$\times 2$

$\times 3$

?
Q. 34 If $P$ denotes ' $\times$ ', Q denotes ' $\leftarrow$ ', R denotes ' + ', and S denotes ' - ', then what will come in place of ' $?$ ' in the following equation?
$\sqrt[4]{81}$ R 6 P 3 S 26 R $64=$ ?
Ans
$\times 1.63$
X2. 65
$\times 3.56$
2. 59
Q. 35 In a code language, 'food is fresh' is coded as 'dy in pq', 'bring fresh food' is coded as 'tq pq dy', and 'food is hot' is coded as 'dy in to'. What is the code for the word 'fresh'?
Ans
X1. In
< 2. to
3. pq
4. dy
Q. 36 ' $B$ \% D' means ' $B$ is the brother of D'.
' $B$ \& $D$ ' means ' $B$ is the mother of $D$ '.
' $B \times D$ ' means ' $B$ is the husband of $D$ '.
' $B$ \# $D$ ' means ' $B$ is the sister of $D$ '.
' $B$ \$ $D$ ' means ' $B$ is the son of $D$ '.
' $B$ @ $D$ ' means ' $B$ is the father of $D$ '.
Which of the following statements is correct regarding the given expression?
P \% Q \$ S R \% U × T
Ans $\times 1 . \mathrm{P}$ is the son of T .
$\times 2 . \mathrm{S}$ is the brother-in-law of T .
3. $U$ is the mother's brother of $P$.
4. P is the daughter of T .
Q. 37 Select the option that is related to the third term in the same way as the second term is related to the first term and sixth term is related to fifth term.
3:8:: 6 : ? :: 11: 1000
Ans $\times 1.216$
2. 512
3. 125
4.729
Q. 38 Select the number from among the given options that can replace the question mark (?) in the following series.
112, 101, 91, ?, 74, 67
Ans
$\times 1.81$
$\times 2.85$
X 3.80
4. 82
Q. 39 Which of the following numbers will replace the question mark (?) in the given series?
$25,30,35,38,41,46, ?$
Ans
$\times 1.53$

- 2.51
$\times 3.49$
$\times 4.50$
Q. 40 Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
$(39,81,123)$
$(56,32,8)$
Ans

1. $(61,57,53)$

X 2. $(42,33,15)$
X 3. $(97,63,38)$
X4. $(24,35,31)$
Q. 41 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose the figure that would most closely resemble the unfolded form of the paper.


Ans
$\times 1$.

$\times 2$.

$\checkmark 3$.

$\times 4$.

Q. 42 In a certain code language, 'HAPPY' is written as 'JCRRA' and 'MAGIC' is written as 'OCIKE'. How will 'LEVEL' be written in that language?

Ans
$X 1$ OGYEN
X 2. MHNGO
X 3. MFMEO
4. NGXGN

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Q. 43 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

WTPL5B9\#Z $\left.\right|_{\mathrm{N}} ^{\mathrm{M}}$
Ans 1. 5\#egc•9TW
X 2. S\#68S7d $\perp M$
X 3. г\#еgट」9TW
× 4. Z\#68Sาd $\perp M$
Q. 44 Select the option figure in which the given figure is embedded (rotation is NOT allowed).


Ans

$\times 2$.

$\times 3$.

Q. 45 Select the option that represents the letters that, when sequentially placed from left to right in the blanks, will complete the letter series.
${ }_{-} a d_{-} v k_{-} a_{-} d v v_{-} r a a_{-} v_{-} k r$
Ans

1. avrkadv
2. avrakdv

X3.varvkdv
X4.avrvada
Q. 46 In a code language, 'ELEMENT' is written as ' $5,12,5,13,5,14,20$ ' and 'ALLOY' is written as ' $1,12,12,15,25$ '.How will ' VIBRANIUM' be written in that language?

Ans
X $1.22,9,2,18,14,1,9,21,13$
X 2. 22, 9, 2, 18, 1, 14, 21, 9, 13
3. $22,9,2,18,1,14,9,21,13$
4. 22, 9, 2, 14, 18, 1, 9, 21, 13
Q. 47 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(11, 10, 21)
$(14,6,160)$
Ans $\quad \times 1 .(16,9,165)$
2. $(19,12,217)$
3. $(81,16,65)$
4. $(27,18,9)$
Q. 48 If + means - , - means $\times, \times$ means $\div$, and $\div$ means + , what will be the value of the following expression?
$64 \times 8 \div 24-5+3$
Ans
$\times 1.7$
2. 125
$\times 3.64$
$\times 4.157$
Q. 49 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants / vowels in the word.)
Shield : Guard :: Spanner : ?
Ans

1. Grip
2. Shot
3. Amplify
4. Grind
Q. 50 Select the option in which the given figure is embedded (rotation is NOT allowed).


Ans
1.

$\times 2$.

$\times 3$.

$\times 4$


Section : General Knowledge and General Awareness
Q. 1 'The Unblemished One', a dance film by has won two awards at White Unicorn International Film Festival (WUIFF) in the categories of 'Experimental Film' and 'Film on Women.'

Ans
X 1. Chitra Visweswaran
2. Anjana Ghonasgi
$X$ 3. Deepa Mehta
X 4. Oopali Operajita
Q. 2 Which membrane-bound cell organelle consisting of a small sac-like structure surrounded by single membranes serves as the cell's digestive system, allowing material taken from outside the cell to degrade and digest obsolete components of the cell?
Ans

1. Lysosome
2. Peroxisome
3. Glyoxysome
4. Polysome
Q. 3 Which of the following was NOT an aim of the satellite INSAT-1B?

Ans

1. Protecting the national borders

X 2. TV communication
X 3. Weather forecasting
X 4. Disaster warning
Q. 4 Conifers, cycads and ginkgo plants belong to which of the following plant groups?

Ans 1. Gymnosperm
X 2. Angiosperm
3. Pteridophyta
4. Bryophyta
Q. 5 Which of the followingis NOT true about Right to Religion in India?

Ans $\quad$ 1. A person may choose any religion or may choose not to follow any religion.
2. Everyone is free to choose a religion and practice that religion.
3. Freedom to profess, follow and propagate any religion.
4. Freedom for forcible conversions.
Q. 6 Which of the following options is correctly matched?

Ans $\times 1$. Units of force - Joule, Horsepower, Torr
2. Units of work done - Newton, Pascal, Bar
3. Units of pressure - Pascal, Bar and Torr

X 4. Units of volume - Kilogram, Gram, Metre
Q. 7 Vijayanagara empire was founded in which of the following years?

Ans $\times 1.1210$
2. 1315
3. 1336
-4. 1368
Q. 8 Bijapur was annexed by Aurangzeb in which year?

Ans $\quad \times 1.1689$
2. 1685
$\times 3.1687$
X4.1683
Q. 9 Which Gharana was propounded by Bade Fateh Ali Khan and Ali Baksh Jarnail Khan?

Ans
X 1. Gwalior Gharana
X 2. Agra Gharana
3. Patiala Gharana

X 4. Bhendi Bazaar Gharana
Q. 10 Which of the following has similarity to Article 29(1) of the Universal Declaration of Human Rights which states "everyone has duties to the community in which alone the free and full development of his personality is possible"?
Ans $\times 1$. Directive Principles
2. Fundamental Rights
3. Cooperative Societies
4. Fundamental Duties
Q. 11 Movement of fault lines can cause:

Ans
X 1. a flood
$X$ 2. sudden rain

- 3. an earthquake

X4. a storm
Q. 12 Who co-invented the device called Cyclotron in 1934 along with Ernest Lawrence to investigate the nuclear structure?
Ans
X 1. JJ Thomson
2. Ernest Rutherford
3. MS Livingston
4. Enrico Fermi
Q. 13 Which of the following is NOT an example of major industrial regions of India?

Ans
$X$ 1. Gujarat region
$X$ 2. Hugli region
X 3. Chota Nagpur region
4. Northern Malabar region
Q. 14 Which of the following pair of compound name - formula is correct?
I. Calcium oxide - $\mathrm{Ca}_{2} \mathrm{O}$
II. Aluminum Oxide $-\mathrm{Al}_{2} \mathrm{O}_{3}$

Ans $X$ 1. Only 1
X 2. Both I and II
3. Neither I nor II
4. Only II
Question ID : 26433054014
Status : Marked For Review
Chosen Option: $\mathbf{4}$
Q. 15 Bhajan Sopori, a famous musician, is associated with which musical instrument?

Ans
X 1. Sarod
X 2. Shehnai
2. Santoor
4. Sitar
Q. 16 With which of the following institutions is the name of Madan Mohan Malaviya associated?
Ans

1. Banaras Hindu University
2. Muhammadan Anglo-Oriental College
3. Fort William College
4. Hindu College
Q. 17 Trichloromethane is the IUPAC name of $\qquad$ .
Ans
X 1. glycerol
5. bleaching powder
6. benzene hexachloride
7. chloroform
Q. 18 In 1991, the Indian rupee was devalued in how many steps?

Ans
X1. Four times
X 2. Three times
X 3 . Once
4. Twice
Q. 19 Which state in India has the highest percentage of the Hindu population in 2011?

Ans
X 1. Uttar Pradesh
X 2. Rajasthan
3. Himachal Pradesh

X4. Andhra Pradesh
Q. 20 $\qquad$ is the currency in the hands of the public plus commercial bank reserves, also called 'high-powered money'.
Ans
X 1. Desired reserve ratio
< 2. Excess reserves
3. Monetary base
4. Money multiplier
Q. 21 Calcium hypochlorite is commonly known as:

Ans $\quad$ 1. bordex mixture
2. bleaching powder
3. laughing gas
4. gunpowder
Q. 22 Violin virtuoso L Subramaniam is famous for which of the following genres of music globally?
Ans
X1. Jazz
2. Hindustani music
3. Carnatic music
4. Rock

## Q. 23 Under which Article of the Constitution of India is the National Commission for

 Scheduled Castes established?Ans $\times 1$. Article 336
2. Article 338

X 3. Article 333
X4. Article 335
Q. 24 Which of the following pair of compound - general formula is correct?
I. Alkenes - $\mathrm{C}_{\mathrm{n}} \mathrm{H}_{2 n}$
II. Alkanes - $\mathrm{C}_{\mathrm{n}} \mathrm{H}_{2 n-1}$

Ans $\quad$ 1. Only II
2. Only I
3. Neither I nor II
4. Both I and II
Q. 25 As of April 2022, which of the following features of citizenship given in the Constitution of India is NOT true?

Ans $\times 1$. The Constitution of India provides for single citizenship.
X 2. The UK Constitution inspired this notion of citizenship.
X 3. People can benefit from the development of advantages merely by becoming citizens.
4. The ability to vote and be elected to positions such as President and Member of

Parliament is accessible to Indians around the world.
Q. 26 Which of the following rule is used to find the direction of magnetic field associated with a current carrying conductor?

Ans

1. Left hand rule
2. Fleming's right-hand rule
3. Maxwell's corkscrew rule
4. Fleming's left-hand rule
Q. 27 The first Indian musician to receive the Ramon Magsaysay award for public service is:

Ans

1. MS Subbulakshmi
2. Zakir Hussain
3. Bhimsen Joshi
4. Bismillah Khan

## Q. 28 The Battle of Khatoli fought was in 1517 between the kingdom of Mewar under Rana

 Sanga and $\qquad$Ans

1. Sikander Lodi
2. Babur
3. Ibrahim Lodi
4. Mahmud Lodi
Q. 29 Which of the following is a part of celestial objects?
I. Stars
II. Planets
III. Moon

Ans $\times 1$. Only I and III
X 2. Only I and II
3. I, II and III

X 4. Only II and III
Q. 30 Which of the following festivals is associated with Tripura?

Ans $\times 1$. Wangala
2. Kang Chingba
3. Bihu
4. Kharchi Puja
Q. 31 Which group of the Köppen climate classification system represented by letter code Aw, sometimes called the 'savannah' climate, is located just outside the ITCZ near the equator?
Ans

1. Mediterranean climates
2. Marine west coast climate
3. Tropical wet and dry climate
4. Humid subtropical climates
Q. 32 The $31^{\text {st }}$ South East Asian Games were held in $\qquad$ _.
Ans
X 1. Malaysia
5. Singapore
6. Indonesia
7. Vietnam

## Q. 33 Ghoomar dance form was developed by which of the following tribes to worship

 Goddess Saraswati?Ans
X 1. Gujjar
X 2. Sahariya
3. Gond
4. Bhil
Q. 34 Who among the following Indian classical dancers, who popularised the Odissi dance form both in India and all over the world, received the honour of Padma Vibhushan in 2000?

Ans $\times$ 1. Pankaj Charan Das
2. Kelucharan Mohapatra
3. Rahul Acharya
4. Debasis Patnaik
Q. 35 Under whose leadership was the $\mathbf{4 2}^{\text {nd }}$ Amendment Act passed?

Ans
X 1. Morarji Desai
X 2. Rajiv Gandhi
3. Indira Gandhi

X4. Charan Singh
Q. 36 Which of the following statement regarding the Deccan Plateau is correct?

Ans $\quad \times 1$. The Deccan Plateau has almost the same height through its expanse.
2. The Deccan Plateau is higher on the east and west ends and slopes towards the center.
3. The Deccan Plateau is higher in the west and slopes gently eastwards.
4. The Deccan Plateau is higher in the east and slopes gently westwards.
Q. 37 The difference between farmer's output over and above his on-farm consumption is known as $\qquad$ _.
Ans $\quad \times 1$. consumer surplus
2. marketable surplus
3. foreign consumption
4. domestic consumption
Q. 38 Which of the following can be used as an instant energy booster?

Ans
$X$ 1. Garlic
$X$ 2. Coriander
X 3. Lemon
4. Banana
Q. 39 Who among the following is related to the Lucknow Kalka-Bindadin gharana of Kathak?
Ans

1. Pandit Birju Maharaj

X 2. Padma Subrahmanyam
X 3. Sonal Mansingh
X 4. Guru Bipin Singh
Q. 40 Who among the following is credited with popularising the catchphrase 'Inquilab Zindabad'?

Ans $\quad$ 1. Ram Prasad Bismil
2. Bhagat Singh
3. Chandrashekhar Azad
4. Sukhdev
Q. 41 'Mein Kampf' of Adolf Hitler was originally written in which of the following languages?
Ans
X 1. Japanese
X 2. English
2. German
$\times 4$. French
Q. 42 What is the meaning of the medals "Tong Xin" given at the 2022 Beijing Winter Olympics?
Ans $\quad \times 1$. Together we Can Achieve
X 2. Together for a Shared Future
X 3. Together for a Successful Future
4. Together as One
Q. 43 The Rolling plan was implemented between which two five-year plans?

Ans
$X$ 1. Fourth and Fifth
$X$ 2. Sixth and Seventh
$X$ 3. Second and Third
4. Fifth and Sixth
Q. 44 Who among the following was the first president of Indian Olympic Association?

Ans
X 1. Suresh Kalmadi
X 2. N. Ramachandran
X 3. Vijay Kumar Malhotra
4. Sir Dorabji Tata
Q. 45 In which of the following sessions did the congress split into two factions?

Ans
X 1. Calcutta Session of 1907
2. Surat Session of 1907
3. Nagpur Session of 1907
4. Chotanagpur Session of 1908
Q. 46 What is the average temperature of Chennai in cold season?

Ans
$\times 1.20^{\circ}-21^{\circ}$ Celsius
Х 2. $32^{\circ}-33^{\circ}$ Celsius
3. $24^{\circ}-25^{\circ}$ Celsius

Х4. $29^{\circ}-30^{\circ}$ Celsius
Q. 47 Which of the following is NOT correct about Fundamental Duties?

Ans $\quad$ 1. They were included by the 42nd Constitutional Amendment Act, 1976
$\times 2$. They are non-justiciable in nature.
3. They are mentioned under Article 51A of the Constitution.
4. Their inclusion in the Constitution was inspired by the American Constitution.
Q. 48 When was Awadh annexed by Lord Dalhousie?

Ans
X 1.1857
X2. 1855
X 3.1858
4. 1856
Q. 49 The term 'Follow - On' is used in which of the following games/sports?

Ans
X 1. Hockey
2. Cricket

X 3. Badminton
4. Football
Q. 50 When was the voting age reduced to 18 in India?

Ans
X 1. In 2004
2. $\ln 1998$
3. In 1991
4. In 1989

Section : Quantitative Aptitude
Q. 1 The HCF of two numbers 960 and 1020 is:

Ans
X 1.40
$\times 2.120$

- 3.60

4. 80
Q. 2 The value of $23 \operatorname{cosec}^{2} A-23 \cot ^{2} A$ is:

Ans
2. 23
$\times 2.1$
X 3.27
4. 0
Q. 3 The population of a town is $\mathbf{1 , 2 5 , 0 0 0}$. If the annual birth rate is $12.7 \%$ and the annual death rate is $\mathbf{2 . 7 \%}$, how much will the population increase after 3 years?

Ans
X 1. 43,285
2. 41,375
3. 42,565
4. 40,275
Q. 4 The perimeter of a rectangle is equal to the perimeter of a square. If the length and the breadth of the rectangle are 10 cm and 8 cm , respectively, then what will be the area of the square?
Ans
$\times 1.72 \mathrm{~cm}^{2}$
2. $98 \mathrm{~cm}^{2}$
3. $81 \mathrm{~cm}^{2}$
4. $64 \mathrm{~cm}^{2}$
Q. 5 Two angles of a triangle are equal and the third angle measures $70^{\circ}$. What is the measure of each of the unknown angles?

Ans
$\times 1.75^{\circ}$
2. $45^{\circ}$
3. $65^{\circ}$
4. $55^{\circ}$
Q. 6 The salaries of $A, B$ and $C$ are in ratio 2:3:4. If increments of $30 \%, 20 \%$ and $10 \%$ are allowed, respectively, in their salaries, then what will be the new ratio of their salaries?
Ans
X 1.22:11:18
2. $18: 13: 22$
3. $13: 18: 22$

X4.22:18:13
Q. 7 A computer marked at Rs. 18,000 was sold at Rs.15,840. The percentage of discount is:

Ans $\times 1.13 .6 \%$
2. $21.60 \%$
3. $12 \%$
4. $21 \%$
Q. 8 Study the given bar-graph and answer the question that follows.

The bar-graph shows the number of employees recruited (in lakhs) by three different companies in five different years.


The number of employees recruited in company B in the year 2019 was what percentage of the number of employees recruited in company C in the year 2021 (correct up to 2 decimal places)?
Ans
X1.88.85\%
X2.85.25\%
3.105.88\%
4. 102.35\%
Q. 9 Find the sum of the numbers between 550 and 700 such that when they are divided by 12,16 and 24 , leave remainder 5 in each case.
Ans
$\times 1.1980$
2. 1887

X 3. 1860
X4. 1867
Q. 10 There are six baskets - Green, Red, Blue, Yellow, Black and White. Each basket has some rings in it. The average number of rings in all the six baskets is 38 . If the blue basket is removed, the average number of rings in the remaining baskets is 34 . How many rings are there in the blue basket?
Ans
X 1.22
$\times 2.45$
$\times 3.37$

- 4.58
Q. 11 The given pie chart shows the percentage of students who speak different languages in a hostel. The total number of students in the hostel is 120 .


What is the ratio of students speak English and Bhojpuri to those who speak Tamil?
Ans
X1.10:3
X2.1:1
X 3.20:3

- $4.5: 1$
Q. 12 If $16 y^{2}-k=\left(4 y+\frac{3}{2}\right)\left(4 y-\frac{3}{2}\right)$, then the value of $k$ is:

Ans
-1. $\frac{9}{4}$
$\times 2 . \frac{11}{4}$
×3. $\frac{6}{4}$
$\times 4 . \frac{7}{4}$
Q. 13 The following pie chart shows the number of workers of different categories A, B, C, D, E, F, G and H of a factory in 1995.


If the number of workers in category B is increased by $10 \%$ and the number of workers in category D is decreased by 5\% in 1996, then what is the total no. of workers in categories B and D in 1996, if no. of workers in B was 1500 in the year 1995?

Ans

- 1.4025

X2. 4500
$\times 3.5000$
4. 4000
Q. 14 The radius of a hollow sphere is 21 cm . It is cut into two equal halves by a plane passing through its centre. What is
$75 \%$ of the curved surface area (in $\mathrm{cm}^{2}$, rounded off to the nearest tens) of the hemisphere? (Take $\pi=\frac{22}{7}$ )
Ans
$\times 1.4160$
$\times 2.3470$
-3. 2080
X4. 2770
Q. 15 In an election between two candidates, $65 \%$ of the voters cast their votes, out of which $3 \%$ of the votes were decided to be invalid. A candidate got 81965 votes which are $65 \%$ of the total valid votes. What is the total number of votes enrolled in that election?

Ans

1. 200000

X2. 190000
3. 215000
4. 185000
Q. 16 Amit \& Sumit start walking from same point in opposite directions at the speed of 6 $\mathrm{km} / \mathrm{h}$ and $4 \mathrm{~km} / \mathrm{h}$, respectively. How far will they be from each other after 4 hours?

Ans
X 1.500 m
X 2.35 km
. 3.40 km
-4.300 m
Q.17 A man goes from place $A$ to $B$ at a speed of $12 \mathrm{~km} / \mathrm{h}$ and returns from $B$ to $A$ at a speed of $18 \mathrm{~km} / \mathrm{h}$. His average speed for the entire journey is:

Ans

1. $14 \frac{2}{5} \mathrm{~km} / \mathrm{h}$
2. $15 \mathrm{~km} / \mathrm{h}$
3. $6 \mathrm{~km} / \mathrm{h}$
4. $30 \mathrm{~km} / \mathrm{h}$
Q. 18 Study the following table and answer the question.

| Students | Subjects |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chemistry <br> Maximum <br> marks | Mathematics <br> Maximum <br> marks | Physics <br> Maximum <br> marks | Hindi <br> Maximum <br> marks | English <br> Maximum <br> marks |
| 300 | 300 | 150 | 300 | 200 |  |
| Raju | 60 | 85 | 90 | 80 | 65 |
| Shyamu | 65 | 70 | 60 | 75 | 65 |
| Mohan | 70 | 75 | 80 | 65 | 85 |
| Shobh | 60 | 65 | 60 | 85 | 80 |
| Sushil | 65 | 75 | 70 | 60 | 75 |

Percentage of marks obtained by five students in different subjects.
What are the average marks in percentage obtained by Mohan?
Ans
X 1.70.6 Percent
X 2. 74.6 Percent
X 3.73.2 Percent
4. 73.6 Percent
Q. 19 Total number of candidates who appeared and qualified in a competitive examination from different cities are given in the following bar graph. Study the bar graph carefully and answer the following question.


What is the difference between the average number of appeared candidates and the average number of qualified candidates in the exam from all the cities?
Ans
$\times 1.525$
$\times 2.550$

- 3.650
4.625
Q. 20 A wrist watch is sold for $₹ 1,200$ at a profit per cent equal to its cost price. Find the cost price of the wrist watch.

Ans
$\times 1$. ₹ 400
X2. ₹ 250
X 3. ₹ 350
4. ₹ 300
Q. 21 A can do a piece of work in 10 days. B can do it in 15 days. With the assistance of $C$ they completed the work in 5 days. Find in how many days $C$ alone can do it?
Ans
< 1.20
X2. 25

- 3.30
$\times 4.35$
Q. 22 After deducting 20\% from a certain sum, and then $10 \%$ from the remainder, there is Rs. 7,200 left. Find the original sum.

Ans
X 1. Rs. 9,000
2. Rs. 10,000

X 3. Rs. 7,500
X 4.Rs. 7,800
Q. 23 The greatest four digit number which is exactly divisible by 15,24 and 40 is:

Ans
-1. 9960
$\times 2.9940$
$\times$ 3. 9990
$\times 4.9980$
Q. 24

The value of $\frac{\left\{\left(m^{2}+n^{2}\right)(m-n)-(m-n)^{3}\right\}}{\left(m^{2} n-m n^{2}\right)}$ is:
Ans

1. $m+n$
2. m-n
3. 2
$\times 4 . \frac{\mathrm{m}}{\mathrm{n}}$
Q. 25 If $x+y+z=8$, and $x^{2}+y^{2}+z^{2}=20$ then the value of $x^{3}+y^{3}+z^{3}-3 x y z$ is $\qquad$ .
Ans $X 1.16$
4. 10
5. 15
6. -16
Q. 26 Solve the following equation. $12^{3} \times\left(16^{2}-14^{2}-40\right) \div 2-9^{4}=$ $\qquad$ .
Ans
X 1.17280
$\times 2.6561$

- 3.10719
4.9865
Q. 27 Study the given bar graph to answer the following question. The bar graph shows the length (in thousand kilometers) of mountains, forests and rivers in different states.


The length of mountains in Punjab is what percentage more than the length of rivers in Odisha?
Ans
X 1. $400 \%$
2. $300 \%$

X 3. $200 \%$
X4. $100 \%$
Q. 28 In the following figure, if $\mathrm{PT}=12 \mathrm{~cm}$ and $\mathrm{PB}=24 \mathrm{~cm}$, then find AB .


Ans
X 1.24 cm
2. 18 cm
3. 16 cm
4. 12 cm
Q. 29 Study the given table and answer the question that follows.

The table shows the consumption of various grains by a total of four families of four members each from 2002 to 2005.

| Year | Wheat (kg) | Rice $(\mathrm{kg})$ | Oats $(\mathrm{kg})$ | Quinoa $(\mathrm{kg})$ |
| :--- | :--- | :--- | :--- | :--- |
| 2002 | 162 | 62 | 131 | 61 |
| 2003 | 196 | 80 | 116 | 64 |
| 2004 | 187 | 116 | 103 | 46 |
| 2005 | 189 | 122 | 101 | 45 |

For the total of these four families, what is the difference (in kg ) between the average consumption per year of wheat and that of oats?

Ans
X 1.129 .5
2. 90.67
3. 70.75
4. 63.5
Q. 30 Given that $A$ and $B$ are second quadrant angles, $\sin A=\frac{1}{3}$ and $\sin B=\frac{1}{5}$, then find the value of $\cos (A-B)$.

Ans
X1. $\frac{4 \sqrt{3}+1}{15}$2. $\frac{8 \sqrt{3}-1}{15}$
3. $\frac{8 \sqrt{3}+1}{15}$

X4. $\frac{4 \sqrt{3}-1}{15}$
Q. 31 If the 9 -digit number $72 \times 8431$ y 4 is divisible by 36 , what is the value of $\left(\frac{x}{y}-\frac{y}{x}\right)$ for the smallest possible value of $y$, given that x and y are natural numbers?

Ans
$\times 1.1 \frac{5}{7}$
2. $2 \frac{1}{10}$
× $3.1 \frac{2}{5}$
X4. $2 \frac{9}{10}$
Q. 32 In the given figure, the circle with centre $O$ has radius 10 cm . The radius of the circle with centre P is X . STR is a common tangent to the two circles at points R and S as shown in the figure. $\mathrm{RT}=16 \mathrm{~cm}$ and $\mathrm{TS}=24 \mathrm{~cm}$. What is the value of $x($ in cm$)$ ?


Ans

1. 15
$\times 2.16$
$\times 3.12$
2. 18
Q. 33 Two trains $A$ and $B$ start running at $80 \mathrm{~km} / \mathrm{h}$ and $82 \mathrm{~km} / \mathrm{h}$ towards each other from two different stations. They meet after 1 hour and 30 minutes. How far were they from each other when they started?
Ans
X 1.190 km
3. 262 km
4. 243 km

X4. 224 km
Q. 34 What is the value of $\frac{\sin (A+B)}{\sin A \cos B}$ ?

Ans

1. $1+\cot A \tan B$

X2. $1+\tan A \cot B$
3. $1-\sin A \cos B$
4. $1-\cot A \tan B$
Q. 35 Study the given table and answer the question that follows.

| School <br> name | Total number of <br> students enrolled | Percentage of enrolled <br> students who opted Biology | Ratio of male to female students <br> who opted Biology |
| :--- | :--- | :--- | :--- |
| A | 900 | 30 | $7: 8$ |
| B | 400 | 38 | $9: 10$ |
| C | 1000 | 24 | $5: 19$ |
| D | 800 | 20 | $5: 7$ |

Find the number of students who opted Biology in School D.
Ans

1. 20
2. 160
3. 120
4. 800
Q. 36 What is the total surface area of a solid right circular cylinder of radius 7 cm and height 8 cm ? ( $\quad=22 / 7$ )

Ans

1. $560 \mathrm{~cm}^{2}$
2. $660 \mathrm{~cm}^{2}$
3. $850 \mathrm{~cm}^{2}$
4. $760 \mathrm{~cm}^{2}$
Q. 37 Simplify the following expression.
$72-42 \div 6$ of $7 \times 4$ of $3 \div 4 \times 3-5$
Ans $\times 1.32$
X2. 16

- 3.58
$\times 4.45$
Q. $38 A$ and $B$ can complete a work in 10 days and 15 days, respectively. They got a total of Rs. 1,250 for that work. What will be B's share?

Ans

1. Rs. 400
2. Rs. 500
3. Rs. 600
4. Rs. 200
Q. 39 The LCM of $x$ and $y$ is 441 and their HCF is 7. If $x=49$ then find $y$.

Ans
$\times 1.56$
$\times 2.36$
$\times 3.65$
4. 63
Q. 40 The mean proportional between 0.04 and 0.36 is:

Ans
$\times 1.0 .144$
$\times 2.1 .2$
X 3.12
4. 0.12
Q. 41 The sides of a triangle are $8 \mathrm{~cm}, 12 \mathrm{~cm}$ and 16 cm . What is the area of the triangle?

Ans
$\times 1.24 \sqrt{ } 15$
2. $6 \sqrt{ } 15$
3. $8 \sqrt{ } 15$
4. $12 \sqrt{ } 15$
Q. 42 A boat can go 40 km downstream and 25 km upstream in 7 hours 30 minutes. It can go 48 km downstream and 36 km upstream in 10 hours. What is the speed (in km/h) of the boat in still water?
Ans
X 1.6
$\times 2.12$

- 3.9
$\times 4.15$
Q. 43 Find the largest number which completely divides 24,56 and 96.

Ans
$\times 1.4$
X2. 1

- 3.8
4.2
Q. 44 The total surface area of a solid metallic hemisphere is $462 \mathrm{~cm}^{2}$. This is melted and moulded into a right circular cone. If the radius of the base of the cone is the same as that of the hemisphere, then its height is: (use $\pi=22 / 7$ )
Ans

1. 14 cm
$\times 2.7 \mathrm{~cm}$
$\times 3.21 \mathrm{~cm}$
X 4.28 cm
Q. 45 Study the following table carefully and answer the questions based on it.

The following table shows the domestic sales of vehicles of four manufacturers from 2010 to 2015.

| Manufacturer | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A | 560000 | 700000 | 600000 | 620000 | 650000 | 680000 |
| B | 540000 | 590000 | 570000 | 630000 | 710000 | 650000 |
| C | 610000 | 580000 | 620000 | 680000 | 690000 | 630000 |
| D | 630000 | 570000 | 700000 | 690000 | 700000 | 640000 |

With respect to which of the following combinations, is the sales of vehicles highest over the given period?
Ans
X 1. A, 2011
2. B, 2014

X 3. D, 2012
X4. D, 2014
Q. 46 In a two-candidate election, $10 \%$ of the voters did not cast their ballots. $10 \%$ of the votes cast were found invalid. The winning candidate received $54 \%$ of the valid votes and a 1620-vote majority. Find the number of people on the voter list who have registered to vote.
Ans

1. 25000
2. 26000
3. 24500
4. 25500
Q. 47 In a shop, a discount of $8 \%$ is provided. If the total payable after discount is more than $₹ 5,000$ and additional discount of $20 \%$ is provided, then determine the final amount to be paid by customer, if he buys 12 products each of price ₹ 750 .
Ans
5. ₹ 6,724
6. ₹ 6,624

X 3. ₹ 6,424
X4. ₹ 6,524
Q. 48 What will be the actual profit percentage (rounded off to nearest integer) after selling an article at a certain price, while there occurs a loss of $45 \%$ on selling the article at $\frac{3}{8}$ of the selling price?
Ans
X1. 17 Percent
X 2. 37 Percent
3.47 Percent

X 4. 27 Percent
Q. 49

Which of the following is the value of $\sqrt{\frac{1-\sin 45^{\circ}}{1+\sin 45^{\circ}}}$ ?
Ans
X1. $\cos 45^{\circ}-\tan 45^{\circ}$
$\times 2 \cdot \tan 45^{\circ}-\sec 45^{\circ}$
X $3 \cdot \tan 45^{\circ}$
4. $\sec 45^{\circ}-\tan 45^{\circ}$
Q. 50 If $\left\{(1 \div x) \times\left(x^{3}-2 x^{2}\right)+\left(4^{3} \div 2^{5}\right) \times x\right\} \div 25=1$, then the possible values of $x$ is/are:

Ans
< 1. -5
$\times 2.5$
$\times 3.0$
4. Both 5 and -5

Section: English Comprehension
Q. 1 Select the option that can be used as a one-word substitute for the given group of words.

The scientific study of the behaviour, structure, physiology, classification and distribution of animals
Ans
, 1. Zoology
X 2. Archaeology
X 3. Petrology
X4. Ecology
Q. 2 Select the most appropriate synonym of the given word.

Peril
Ans $\times 1$. Doubt
2. Danger
(3. Benefit
4. Safety
Q. 3 Select the INCORRECTLY spelt word.

Ans

1. Perspicuious
2. Purvey
3. Peruse
4. Pervade
Q. 4 Select the most appropriate synonym of the given word.

Erudite
Ans

1. Scholarly
2. Excited
3. Impressive
4. Lazy
Q. 5 Select the option that can be used as a one-word substitute for the given group of words.

Honour given for some achievement.
Ans
X 1. Placard
2. Laurel

X 3. Party
X 4. Gift
Q. 6 Select the most appropriate synonym of the given word. Impasse
Ans

1. Deadlock
2. Peaceful
3. Resolution
4. Harmony
Q. 7 Select the most appropriate ANTONYM for the underlined word in the following sentence.

This is really an attractive painting made by the novice artist.
Ans
$X$ 1. Mature
2. Expert

X 3. Stylish
X4. Apprentice
Q. 8 Choose the correct spelling of the underlined word.

The school calander this year has turned out really nice.
Ans

- 1. celender

2. calendar

X 3. calunder
X 4. calender
Q. 9 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.
He took a hurried glance / on the newspaper / and swiftly left for work.
Ans
X 1. and swiftly left for work
X 2. He took a hurried glance
3. on the newspaper

X4. No error
Q. 10 Select the option that expresses the given sentence in passive voice. The officers kept us waiting for one hour.
Ans 1. We were kept waiting for one hour by the officers.
2. We kept waiting for one hour.
3. We keep waiting for one hour.
4. We are keeping waiting for one hour.
Q. 11 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

They are cautious about their car as it's door is broken.
Ans
$X 1$. as it is
2. as its
3. No substitution required
4. because it's
Q. 12 Select the most appropriate ANTONYM of the given word.

Colloquial
Ans
X 1. Informal
2. Slack
3. Slang
4. Formal
Q. 13 Read the given sentence and select the most appropriate ANTONYM of the word 'Straighten' from the following options.

The soldiers were crouching and crawling behind the fence to take a better shot at the enemies and surprise them.
Ans
X 1. fence
2. crouching
3. surprise
4. enemies
Q. 14 Select the most appropriate ANTONYM of the given word.

Awkward
Ans

1. Adroit
2. Tender
3. Cordial
4. Catchy
Q. 15 Select the option that can be used as a one-word substitute for the given group of words.

Killing of a person by another
Ans

1. Homicide

X 2. Democide
X 3. Genocide
4. Euthanasia
Q. 16 Select the INCORRECTLY spelt word.

Ans $\times 1$. Wriggle
2. Wreathe
3. Weggle

X 4. Wreak
Q. 17 Select the most appropriate meaning of the underlined idiom.

He burnt his fingers by getting into others' problems.
Ans
X 1. To get rid off
X 2. To get rewarded
3. To get into trouble

X 4. To burn ones fingers
Q. 18 Select the option that can be used as a one-word substitute for the underlined group of words.
The ducks were not afraid of the fast moving water.
Ans

1. Torrent
2. Current
3. Flood
4. Overflow
Q. 19 Select the most appropriate idiom from the following options that can substitute the underlined part of the given sentence.

It is his first interview, so he has a nervous feeling.
Ans

1. Butterflies in his stomach

X 2. A slap on the wrist
3. Tug at his heartstrings
4. Icing on the cake
Q. 20 Select the most appropriate ANTONYM of the given word.

Wily
Ans $\quad$ 1. Horrid
2. Honest

X 3. Raunchy
4. Triumphant
Q. 21 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

My granny says that / it is quite all right / to get married young, / though I do not absolute agree with her a bit on this.
Ans $\times 1$. My granny says that
2. though I do not absolute agree with her a bit on this
$\times 3$. it is quite all right
4. to get married young
Q. 22 Select the most appropriate meaning of the given idiom. Salt of the earth

Ans
X 1. Do anything possible
2. A very good and honest person
3. Discovered after a lot of searching
4. Choose one at random
Q. 23 Select the most appropriate option to substitute the underlined segment in the given sentence.

They are looking to a place to rest.
Ans
X 1. have looking at
X 2. should be looking
2. are looking for

X4. looking into
Q. 24 Select the INCORRECTLY spelt word.

Ans $\times 1$. Membrane
2. Solvant
3. Highlight
4. Exuberant
Q. 25 Select the INCORRECTLY spelt word.

Ans
X1. Nefarious
2. Sermonise
3. Acquittal
4. Chhivalrous
Q. 26 Select the most appropriate synonym of the given word. Prohibit

Ans
X 1. Aid
2. Allow
3. Ban
4. Assist
Q. 27 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The speaker is about to beginner his speech.
Ans

1. was about to began
2. was about to beginner
3. is about to begin
4. is about to beginning
Q. 28 Select the most appropriate phrase for the underlined segment in the given sentence.

My mother said, "You must pay attention to your studies."
Ans

1. Concentrate on
2. Back up
3. Act up to
4. Ask for
Q. 29 Select the most appropriate idiom for the underlined segment in the given sentence.

Rajeshwar has a vision for capturing beautiful pictures of nature.
Ans

1. An eagle eye

X 2. A high horse
X 3. Cry wolf
4. A cat nap
Q. 30 Select the most appropriate meaning of the underlined idiom.

The mother-in-law deliberately rained on the new bride's parade when she asked her to change the dress of her choice.
Ans
X 1. Force traditions upon someone
2 2. Make someone tearful out of viciousness
3. To spoil a moment

X 4. Save one from embarrassment
Q. 31 Select the most appropriate meaning of the given idiom.

At the drop of a dime
Ans

1. A way of saying that you are happy to see someone
$\chi$ 2. Something that is not popular
2. Something that can happen very fast without hesitation
3. Extremely easy to understand

## Q. 32 Select the most appropriate ANTONYM of the given word.

Opulent
Ans
$X$ 1. Insolvent
$\times 2$. Flourishing
X 3. Depressed
4. Destitute
Q. 33 Select the most appropriate meaning of the given idiom.

All ears
Ans $\quad$ 1. To scold someone bitterly
2. To listening attentively

X 3. To listen to everyone
X4. To not be vocal
Q. 34 Select the most appropriate meaning of the given idiom.

To pull someone's leg
Ans $\quad$ 1. To talk something bad about someone
X 2. To talk something good about someone
3. To joke with someone
4. To push a person
Q. 35 Select the most appropriate synonym of the given word. Restrain
Ans $\times 1$. Allow
2. Assist
3. Free
4. Constrain
Q. 36 Select the most appropriate option that can substitute the underlined segment in the given sentence.
The doctors have given off the case.
Ans
X 1. given out
2. given forth
3. given up
4. given over

## Q. 37 Select the most appropriate meaning of the given idiom.

Snowed under
Ans
< 1. Lazy
2. Silent
3. Calm
4. Busy
Q. 38 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Psychology and Sociology are very interesting science to study.
Ans
$X 1$. science to studies
X 2. science for study
$\chi$ 3. No substitution required
4. sciences to study
Q. 39 Select the most appropriate option that can substitute the underlined segment in the given sentence.
You must cut off your expenses if you want to save money.
Ans
$X 1$. cut out
2. cut down on

X 3. cut for
4. cut up
Q. 40 Select the most appropriate synonym to replace the italicised word.

A shadow of guilt darkened his eyes.
Ans

1. remorselessness
2. innocence
3. remorse
4. impenitence

## Comprehension:

Read the passage carefully and answer the question that follows.
Humans are social animals by nature. To prosper in life, we require the company of others, and the strength of our bonds has a significant influence on our mental health and happiness. Being socially linked to people may help you cope with stress, worry and depression, increase your self-esteem, bring comfort and joy, prevent loneliness, and even add years to your life. On the other hand, a lack of strong social relationships might put your mental and emotional health at in danger. Many of us use social media sites like Facebook, Twitter, Snapchat, YouTube and Instagram to locate and communicate with one another in today's society. While each has its own set of advantages, it's vital to realise that social media will never be a substitute for genuine human interaction. In order to trigger the hormones that relieve stress and make you feel happier, healthier, and more optimistic, you must interact with individuals in person. Spending too much time on social media, ironically for a tool supposed to bring people closer together, can instead make you feel more lonely and isolated, and aggravate mental health issues like anxiety and depression. If you're spending too much time on social media and are experiencing emotions of unhappiness, discontent, irritation or loneliness, it's time to re-evaluate your online habits and establish a healthier balance.
Because social media is such a new technology, little study has been done to determine the long-term effects, good or ill, of its use. Multiple studies, however, have linked extensive social media use to an increased risk of melancholy, anxiety, loneliness, self-harm and even suicide ideation. The purpose of social media sites is to capture your interest, keep you online, and keep you checking your screen for updates. It's how businesses generate money. However, much like a gambling addiction or a nicotine, alcohol, or drug addiction, social media use may lead to psychological cravings. When you get a like, a share, or a positive reaction to a post, your brain releases dopamine, the same 'reward' chemical that you get after winning at a slot machine, eating chocolate, or smoking a cigarette,for example. The more you're rewarded, the more time you want to spend on social media, even if it has negative consequences in other areas of your life.

SubQuestion No: 41
Q. 41 Select the most appropriate ANTONYM of the given word.

## Discontent

Ans
$X 1$. Serenity
2. Satisfaction

X 3. Approval
$X 4$. Relaxation

## Comprehension:

Read the passage carefully and answer the question that follows.
Humans are social animals by nature. To prosper in life, we require the company of others, and the strength of our bonds has a significant influence on our mental health and happiness. Being socially linked to people may help you cope with stress, worry and depression, increase your self-esteem, bring comfort and joy, prevent loneliness, and even add years to your life. On the other hand, a lack of strong social relationships might put your mental and emotional health at in danger. Many of us use social media sites like Facebook, Twitter, Snapchat, YouTube and Instagram to locate and communicate with one another in today's society. While each has its own set of advantages, it's vital to realise that social media will never be a substitute for genuine human interaction. In order to trigger the hormones that relieve stress and make you feel happier, healthier, and more optimistic, you must interact with individuals in person. Spending too much time on social media, ironically for a tool supposed to bring people closer together, can instead make you feel more lonely and isolated, and aggravate mental health issues like anxiety and depression. If you're spending too much time on social media and are experiencing emotions of unhappiness, discontent, irritation or loneliness, it's time to re-evaluate your online habits and establish a healthier balance.
Because social media is such a new technology, little study has been done to determine the long-term effects, good or ill, of its use. Multiple studies, however, have linked extensive social media use to an increased risk of melancholy, anxiety, loneliness, self-harm and even suicide ideation. The purpose of social media sites is to capture your interest, keep you online, and keep you checking your screen for updates. It's how businesses generate money. However, much like a gambling addiction or a nicotine, alcohol, or drug addiction, social media use may lead to psychological cravings. When you get a like, a share, or a positive reaction to a post, your brain releases dopamine, the same 'reward' chemical that you get after winning at a slot machine, eating chocolate, or smoking a cigarette,for example. The more you're rewarded, the more time you want to spend on social media, even if it has negative consequences in other areas of your life.

SubQuestion No : 42
Q. 42 Select the most appropriate title for the given passage.

Ans $\times 1$. Advantages of Social Media
X 2. Consequences of Social Media
3. Social Media and Mental Health
$X$ 4. Mental Health During Troubled Times

## Comprehension:

Read the passage carefully and answer the question that follows.
Humans are social animals by nature. To prosper in life, we require the company of others, and the strength of our bonds has a significant influence on our mental health and happiness. Being socially linked to people may help you cope with stress, worry and depression, increase your self-esteem, bring comfort and joy, prevent loneliness, and even add years to your life. On the other hand, a lack of strong social relationships might put your mental and emotional health at in danger. Many of us use social media sites like Facebook, Twitter, Snapchat, YouTube and Instagram to locate and communicate with one another in today's society. While each has its own set of advantages, it's vital to realise that social media will never be a substitute for genuine human interaction. In order to trigger the hormones that relieve stress and make you feel happier, healthier, and more optimistic, you must interact with individuals in person. Spending too much time on social media, ironically for a tool supposed to bring people closer together, can instead make you feel more lonely and isolated, and aggravate mental health issues like anxiety and depression. If you're spending too much time on social media and are experiencing emotions of unhappiness, discontent, irritation or loneliness, it's time to re-evaluate your online habits and establish a healthier balance.
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SubQuestion No : 43
Q. 43 What is the purpose of social media sites?

Ans $\quad \times 1$. To provide a platform to replace physical interaction
$X$ 2. To provide a platform to decrease loneliness
3. To keep people online by capturing their interests
4. To offer a platform for people with anxiety and depression

## Comprehension:

Read the passage carefully and answer the question that follows.
Humans are social animals by nature. To prosper in life, we require the company of others, and the strength of our bonds has a significant influence on our mental health and happiness. Being socially linked to people may help you cope with stress, worry and depression, increase your self-esteem, bring comfort and joy, prevent loneliness, and even add years to your life. On the other hand, a lack of strong social relationships might put your mental and emotional health at in danger. Many of us use social media sites like Facebook, Twitter, Snapchat, YouTube and Instagram to locate and communicate with one another in today's society. While each has its own set of advantages, it's vital to realise that social media will never be a substitute for genuine human interaction. In order to trigger the hormones that relieve stress and make you feel happier, healthier, and more optimistic, you must interact with individuals in person. Spending too much time on social media, ironically for a tool supposed to bring people closer together, can instead make you feel more lonely and isolated, and aggravate mental health issues like anxiety and depression. If you're spending too much time on social media and are experiencing emotions of unhappiness, discontent, irritation or loneliness, it's time to re-evaluate your online habits and establish a healthier balance.
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SubQuestion No : 44
Q. 44 Which hormone is released in our minds when we receive a positive reaction to our posts on social media?
Ans
$X 1$. Adrenaline

- 2. Dopamine
$X$ 3. Calcitonin
$\times$ 4. Melatonin


## Comprehension:

Read the passage carefully and answer the question that follows.
Humans are social animals by nature. To prosper in life, we require the company of others, and the strength of our bonds has a significant influence on our mental health and happiness. Being socially linked to people may help you cope with stress, worry and depression, increase your self-esteem, bring comfort and joy, prevent loneliness, and even add years to your life. On the other hand, a lack of strong social relationships might put your mental and emotional health at in danger. Many of us use social media sites like Facebook, Twitter, Snapchat, YouTube and Instagram to locate and communicate with one another in today's society. While each has its own set of advantages, it's vital to realise that social media will never be a substitute for genuine human interaction. In order to trigger the hormones that relieve stress and make you feel happier, healthier, and more optimistic, you must interact with individuals in person. Spending too much time on social media, ironically for a tool supposed to bring people closer together, can instead make you feel more lonely and isolated, and aggravate mental health issues like anxiety and depression. If you're spending too much time on social media and are experiencing emotions of unhappiness, discontent, irritation or loneliness, it's time to re-evaluate your online habits and establish a healthier balance. Because social media is such a new technology, little study has been done to determine the long-term effects, good or ill, of its use. Multiple studies, however, have linked extensive social media use to an increased risk of melancholy, anxiety, loneliness, self-harm and even suicide ideation. The purpose of social media sites is to capture your interest, keep you online, and keep you checking your screen for updates. It's how businesses generate money. However, much like a gambling addiction or a nicotine, alcohol, or drug addiction, social media use may lead to psychological cravings. When you get a like, a share, or a positive reaction to a post, your brain releases dopamine, the same 'reward' chemical that you get after winning at a slot machine, eating chocolate, or smoking a cigarette,for example. The more you're rewarded, the more time you want to spend on social media, even if it has negative consequences in other areas of your life.

SubQuestion No : 45
Q. 45 Which of the following statements is NOT true?

Ans 1. Social media can offer a substitute for real-life social interaction.
X 2. Lack of social interaction may cause anxiety and depression.
3. Social bonds have a strong influence on our mental health.
4. Humans need to reassess their social media usage.

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Last week, I made the mistake of revisiting the village where I grew up. It used to be a small, friendly community with two farms and a number of old cottages round the village green. I realised very quickly that although in (1) $\qquad$ ways it appears unchanged, in reality hardly anything is the same. All the pretty cottages are there, of course, and both the traditional farm houses. (2) $\qquad$ none of the inhabitants are country people. All of them are commuters, who leave early every morning for the nearby town. Neither of the farmhouses are attached to a farm these days; the land (3) $\qquad$ and is managed by somebody in an office
somewhere who has little interest in the village (4) $\qquad$ . There are a few new houses but, they have no local character. You can see the same style anywhere in the country. The whole village, (5) $\qquad$ , has been tidied up so much that it looks no more picturesque than any suburban street.

SubQuestion No : 46
Q. 46 Select the most appropriate option to fill in blank number 1.

Ans
X 1. few
$X$ 2. such
2. many

X4. much

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Last week, I made the mistake of revisiting the village where I grew up. It used to be a small, friendly community with two farms and a number of old cottages round the village green. I realised very quickly that although in (1) $\qquad$ ways it appears unchanged, in reality hardly anything is the same. All the pretty cottages are there, of course, and both the traditional farm houses. (2) $\qquad$ , none of the inhabitants are country people. All of them are commuters, who leave early every morning for the nearby town. Neither of the farmhouses are attached to a farm these days; the land (3) $\qquad$ and is managed by somebody in an office somewhere who has little interest in the village (4)__. There are a few new houses but, they have no local character. You can see the same style anywhere in the country. The whole village, (5) $\qquad$ , has been tidied up so much that it looks no more picturesque than any
suburban street.
SubQuestion No: 47
Q. 47 Select the most appropriate option to fill in blank number 2.

Ans
X 1. When
2. But

X3.As
X 4. Because

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Last week, I made the mistake of revisiting the village where I grew up. It used to be a small, friendly community with two farms and a number of old cottages round the village green. I realised very quickly that although in (1) $\qquad$ ways it appears unchanged, in reality hardly anything is the same. All the pretty cottages are there, of course, and both the traditional farm houses. (2) $\qquad$ , none of the inhabitants are country people. All of them are commuters, who leave early every morning for the nearby town. Neither of the farmhouses are attached to a farm these days; the land (3) $\qquad$ and is managed by somebody in an office somewhere who has little interest in the village (4)__. There are a few new houses but, they have no local character. You can see the same style anywhere in the country. The whole village, (5) $\qquad$ , has been tidied up so much that it looks no more picturesque than any
suburban street.
SubQuestion No : 48
Q. 48 Select the most appropriate option to fill in blank number 3.

Ans
X 1. had been sold
X 2. sells
X 3. sold

- 4. has been sold


## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Last week, I made the mistake of revisiting the village where I grew up. It used to be a small, friendly community with two farms and a number of old cottages round the village green. I realised very quickly that although in (1) $\qquad$ ways it appears unchanged, in reality hardly anything is the same. All the pretty cottages are there, of course, and both the traditional farm houses. (2) $\qquad$ , none of the inhabitants are country people. All of them are commuters, who leave early every morning for the nearby town. Neither of the farmhouses are attached to a farm these days; the land (3) $\qquad$ and is managed by somebody in an office somewhere who has little interest in the village (4)__. There are a few new houses but, they have no local character. You can see the same style anywhere in the country. The whole village, (5) $\qquad$ , has been tidied up so much that it looks no more picturesque than any
suburban street.
SubQuestion No : 49
Q. 49 Select the most appropriate option to fill in blank number 4.

Ans
$\chi$ 1. themselves
2. itself
$\times 3$. herself
X4. himself

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Last week, I made the mistake of revisiting the village where I grew up. It used to be a small, friendly community with two farms and a number of old cottages round the village green. I realised very quickly that although in (1) $\qquad$ ways it appears unchanged, in reality hardly anything is the same. All the pretty cottages are there, of course, and both the traditional farm houses. (2) $\qquad$ , none of the inhabitants are country people. All of them are commuters, who leave early every morning for the nearby town. Neither of the farmhouses are attached to a farm these days; the land (3) $\qquad$ and is managed by somebody in an office somewhere who has little interest in the village (4)__. There are a few new houses but, they have no local character. You can see the same style anywhere in the country. The whole village, (5) $\qquad$ , has been tidied up so much that it looks no more picturesque than any
suburban street.
SubQuestion No: 50
Q. 50 Select the most appropriate option to fill in blank number 5.

Ans
X 1. of course
X 2. despite
2. in fact

4 4. as a result

