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

 2022| Roll Number |  |
| :--- | :--- |
| Candidate Name |  |
| Venue Name | DOTS $A C A D E M Y$ |
| Exam Date | $11 / 11 / 2022$ |
| Exam Time | $4: 00$ PM - $6: 00$ PM |
| Subject | SICPO Paper I 2022 |

Section : General Intelligence and Reasoning
Q. 1

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


Ans

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Q. 2 In a certain code language, LUCKNOW is written as 6 and PATANA is written as 5 . How will RAJASTHAN be written in that language?
Ans

- 1.8
$\times 2.7$
X 3.6
$\times 4.9$
Q. 3 If $A$ denotes ' + ', $B$ denotes ' $x$ ', $C$ denotes ' - ', and $D$ denotes ' $\div$ ', then what will come in place of '? ' in the following equation? 22 B 2 A 81 D 3 C $16=$ ?

Ans
$\times 1.52$
$\times 2.50$
X 3.57
4. 55
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.)
$(16,9,154)$
$(13,7,101)$
Ans
X 1. $(10,7,81)$
X 2. $(15,6,110)$
X 3. $(11,8,99)$
4. $(12,5,70)$
Q. 5 In a code language, 'sky is blue' is written as 'mud pot sum', 'ilike blue' is written as 'mud man log', and 'I am sky' is written as 'man red pot'. What is the code for the word 'is' in this language?
Ans

1. sum
$X$ 2.man
X 3. red
X 4.mud
Q. 6 Select the Venn diagram that best illustrates the relationship between the following classes.

Man, Sister, Father
Ans
$\times 1$

$\times 2$.


- 3. 


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Q. 7 If A denotes ' + ', B denotes ' $x$ ', C denotes ' - ', and $D$ denotes ' $\div$ ', then what will be the value of the following expression?
2 B 12 D 4 A 16 C 7
Ans

- 1.15
$\times 2.13$
$\times 3.12$
X4.14
Q. 8 Select the correct combination of mathematical signs to sequentially replace the * signs
and to balance the given equation.
$(44$ * 3$)$ * 9 * 89 * (174 * 29) * 58
Ans
Х $1 . \div,-,=,-, \times,-$
X $2 .+, \div,+,=,-, x$
Х $3 . \times,+,=,+, \times, \div$
- 4. $\times,+,=,-, \div,+$
Q. 9 Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.
Ans
$X 1$. OMIC
$\times$ 2. TRNH
X 3. RPLF

4. WTPK
Q. 10 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:
All bowls are spoons.
All spoons are plates.
Conclusions:
I. Some plates are bowls.
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II. Some plates are spoons.

Ans 1. Both conclusions I and II follow.
X 2. Neither conclusion I nor II follows.
X 3. Only conclusion I follows.
X 4. Only conclusion II follows.
Q. 11 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?
JPG, FLC, BHY, XDU, ?
Ans
X 1. TQZ
X 2. SQZ
3.TZQ

X 4. SZQ
Q. 12 Select the number from among the given options that can replace the question mark (?) in the following series.
$53,69,86,104,120, ?, 155$
Ans
$\times 1.140$
2. 132
3.137
4.131
Q. 13 Select the option that represents the letters which when sequentially placed from left to right in the blanks below will complete the letter series.
S_G_M_AGE_S__EOAG_-
Ans
X1.AFTNAHEP
X2.AFTNAHFP
X 3.AETNAGEP
4. AESNAGEP
Q. 14 Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
E25I: A5E: : Z49T:V7P: : P144K:?
Ans
X 1. L14G
X 2. L13G

- L12G

X 4. L 12 H
Q. 15 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1.Moulder
2.Mother
3.Motet
4.Moth
5.Motif

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

X 3.4, 2, 5, 3, 1
X 4, 2, 5, 3, 1, 4
Q. 16 If $\times$ means,++ means,-- means $\div, \div$ means $\times$, what will come in place of the question mark (?)?
$15 \div 5 \times 36-6+14=?$
Ans
$\times 1.108$

- 2.67
$\times 3.116$
$\times 4.84$
Q. 17 Which two signs should be interchanged to make the given equation correct?
$551 \div 19-16 \times 12+121=100$
Ans $\times 1$. and $\times$

2.     + and -
<3. + and $\times$
X $4 . \div$ and $\times$
Q. 18 In a certain code language, 'GRANTED' is written as 'HPBLUCE' and 'FRAGMENT' is written as 'GPBENCOR'. How will 'IGNORE' be written in that language?

Ans
X 1. KHLNPC
X 2. JIOQTG
X 3.JFMPSC
4. JEOMSC
Q. 19

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


Ans

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Q. 20 Six students are sitting around a circular table facing the centre. A is an immediate neighbour of $D$ and $E$. C is an immediate neighbour of $D$ and $F$. $F$ is an immediate neighbour of $C$ and $B$. Who is the immediate neighbour of both $A$ and $B$ ?
Ans $\quad \times 1$. $F$
$\times$ 2.c
X 3. D

- 4 E
Q. 21

Ans $\times 1$.
$\times 2$
$\times 3$

- 4. 

Q. 22 Mohan is at the railway station of a certain district. He wants to reach the nearest bus stand. He walked 120 m towards the east, took a right turn and walked another $100 \mathrm{~m} . \mathrm{He}$ then took a left turn and walked 30 m . Again, he took a left turn and walked 140 m , where he met his friend and had a conversation. From there, he, finally took a left turn and walked 150 $m$ to reach the bus stand. How far and in which direction is the bus stand from the railway station?
Ans

- 1.40 m , North

X 2. 40 m , South
X 3.40 m , North-East
X 4.140 m , North
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)
Fix: Break
Ans
X 1. Start: Begin
X 2. Lazy: Inert
3. Sweet : Bitter

X 4. Anger : Enrage
Q. 24 If \$ means +, \# means - , @ means $\times$, and $\%$ means $\div$, then what will be the value of the following expression?
32 \$ 8 @ 10 \# 144 \% 16 = ?
Ans
X 1.100
X 2.102

- 3.103

X4. 101
Q. 25 Select the option that represents the letters that, when sequentially placed from left to right in the blanks, will complete the letter series. $R_{-} S_{-} \quad$ - $S G R T \_G-T S$ _
Ans
X1.GTRTSGR
2. TGRTSRG

X3.RGTRSRG
Х4.TGRSTRG
Q. 26 Which letter-cluster will replace the question mark (?) to complete the given series? QKYF, NIUA, ?, HEMQ, ECIL
Ans
X 1.KGRV
X 2. KHQV
X 3. KGRW

- 4. KGQV
Q. 27 Arrange the following farming processes in a logical and meaningful order.
1.Winnowing
2.Sowing
3.Threshing
4.Harvesting
5.Ploughing

Ans

1. 5,2,4,3,1
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X 2. 2,4,1,3,5
X 3. 2,1,4,3,5
$\times 4.5,2,4,1,3$
Q. 28

Ans $\quad \times 1$.
$\times 2$

- 3. 

$\times 4$.
Q. 29 If A denotes ' + ', $B$ denotes ' $x$ ', C denotes ' - ', and $D$ denotes ' $-\div$ ', then what will come in place of '?' in the following equation?
94 A 16 B 3 C 86 A 14 D $7=$ ?
Ans
X 1.51
$\times 2.62$
3. 58
$\times 4.48$
Q. 30 Which of the following numbers will replace the question mark (?) in the given series? $6,48,24,192,96$, ?
Ans $\quad \times 1.758$
$\times 2.384$
$\times 3.48$

- 4.768
Q. 31

Ans $\times 1$.
$\times 2$.

- 3. 

$\times 4$.
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Q. 32

Ans $\quad X 1$. Only B and C
2. Only A and C
$X$ 3. Only C and D
4. Only A, C and D
Q. 33

Ans $\quad \times 1$.
$\times 2$.
$\checkmark 3$.
$\times 4$.
Q. 34 Which of the following numbers will replace the question mark (?) in the given series?

118, 93, 76, 67, 62, ?
Ans
X 1.58
$\times 2.60$

- 3.61
$\times 4.59$
Q. 35 Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

Ans
>1.JPN
X 2. MSQ
X 3. QWU
-4.CJI
Q. 36 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)
$(12,125,17)$
$(8,27,11)$
Ans
X $1 .(17,16,19)$
2. $(19,216,25)$

X $3 .(9,216,16)$
X $4 .(11,32,15)$
Q. 37 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 coins are notes.
Some notes are bills.
Conclusions:
I. No coin is a bill.
II. All notes being coins is a possibility.

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

X 3. Both conclusions I and II follow
X 4. Only conclusion I follows
Q. 38

Ans
$\times 1$
$\times 2$
$\times 3$.

- 4. 

Q. 39 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.)
(112, 210, 308)
$(84,182,280)$
Ans
X $1 .(424,536,638)$
2. $(236,334,432)$

X 3. $(313,411,512)$
X 4. $(112,212,300)$
Q. 40 In a code language, 'PARENT' is written as ' $11,26,9,22,13,7$ ' and 'DUMPSTER' is written as ' $23,6,14,11,8,7,22,9$ '. How will 'FLASK' be written in that language?

Ans

- $1.21,15,26,8,16$

X 2. 21, 15, 8, 26, 16
X 3.16, 8, 26, 15, 21
X 4.16, 8, 15, 26, 21
Q. 41

Ans
1.3
$\times 2.6$

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$\times 3.5$
X4.2
Q. 42 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 the sixth term is related to the fifth term.
273: 21 :: 221 : ? :: 364 : 28
Ans
X 1.12
X 2.26
X 3.20

- 4.17
Q. 43 Eight relatives, $\mathrm{P}, \mathrm{Q}, \mathrm{R}, \mathrm{S}, \mathrm{T}, \mathrm{V}, \mathrm{W}$ and Y are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of each of four sides, all of them facing the centre of the square.
$P$ sits third to the left of $V$. $R$ is not an immediate neighbour of $V$. Only one person sits
between V and W . S sits second to the right of Q . R is not an immediate neighbour of $P$. T sits second left of $P$.
Who sits fourth to the right of P?
Ans
1.S
$\times 2$. T
X $3 . \mathrm{V}$
$\times 4 . \mathrm{R}$
Q. 44

Ans
$\times 1.5$

- 2.3
$\times 3.4$
$\times 4.6$
Q. 45 Prince drives 6 km towards east from point A and takes a right turn and drives $\mathbf{3} \mathbf{~ k m}$. He again takes a right turn and drives 8 km . He takes one more right turn and drives 3 km to reach point B. How far and towards which direction should he drive in order to reach point A again?
Ans
X 1.4 km towards west
X 2. 2 km towards north
X 3.4 km towards south

4. 2 km towards east
Q. 46 Which of the following numbers will replace the question mark (?) in the given series?

30, 39, 55, 76, ?
Ans
$\times 1.97$

- 2.100
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$\times 3.87$
$\times 4.91$
Q. 47 A \# B means ' $A$ is the father of $B$ '.
$A$ @ $B$ means ' $A$ is the daughter of $B$ '.
$A \& B$ means ' $A$ is the sister of $B$ '.
$A$ \% B means ' $A$ is the wife of $B$ '.
If $\mathbf{W}$ \# Q @ T \& Y @ M \% K, then how is K related to $T$ ?
Ans
$X$ 1. Father-in-law
X 2. Brother
X 3. Brother-in-law

4. Father
Q. 48

Ans $\quad X 1$.
$\times 2$

- 3. 

$\times 4$.
Q. 49 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:
All queens are kings.
Some kings are aces.
Conclusions:
I. Some kings are queens.
II. All queens are aces.

Ans $\quad \times 1$. Neither conclusion I nor II follows
$X 2$. Only conclusion II follows.
3. Only conclusion I follows.
4. Both conclusions I and II follow.
Q. 50 ' $A$ \& $Z$ ' means ' $A$ is the father of $Z$ '.
' $A \times Z$ ' means ' $A$ is the sister of $Z$ '.
' $A$ \# $Z$ ' means ' $A$ is the mother of $Z$ '.
' $A \$ Z$ ' means ' $A$ is the daughter of $Z$ '.
' $A$ \% $Z$ ' means ' $A$ is the son of $Z$ '.
'A @ Z' means 'A is the daughter-in-law of $Z$ '.
How is V related to S in the following expression?
S \$ T \# W \& U \% × @ V
Ans
$X 1$. Uncle
$\times 2$. Son
X 3. Brother
4. Father

## Section : General Knowledge and General Awareness

Q. 1 Which of the following intermolecular is also called as London force?

Ans 1. Dispersion Forces
$X$ 2. Hydrogen bond forces
$X$ 3. Dipole-Induced Dipole Forces
X 4. Dipole-Dipole Forces

## Q. 2 Which of the following expression is correct?

Ans $\quad \times 1$. Gross primary deficit $=$ Gross fiscal deficit $\times$ Net interest liabilities

X 2. Gross primary deficit $=$ Gross fiscal deficit $\div$ Net interest liabilities
2. Gross primary deficit = Gross fiscal deficit - Net interest liabilities
4. Gross primary deficit $=$ Gross fiscal deficit + Net interest liabilities
Q. 3 Which of the following was included by the Constitution (Eighty-sixth Amendment) Act, 2002?
Ans $\quad \times 1$. National Commission for Scheduled Tribes
2. Elementary education as a fundamental right

X 3. Readjustment of territorial constituencies
X 4. Readjustment of seats of the Lok Sabha
Q. 4 As per CMIE data, what is the percentage of unemployment in India (as of March 2022)?

Ans
$\times 2$
$\times 3$.
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$\times 4$.
Q. 5 Malik Kafur was the commander of which among the following Khilji rulers, who sent him with his large army to conquer South India?
Ans
X 1. Qutb-ud-Din Mubarak Shah
2. Alauddin Khilji

X 3. Jalal-ud-Din Khilji
X 4. Khusrau Khan
Q. 6 Who among the following Moroccan travellers came to India during the reign of Muhammad bin Tughlaq?
Ans
Х 1. Suleiman al-Tajiri
X 2. Abd-al-Razzaq
3. Ibn Battuta

X 4. Al Masudi
Q. 7 The Sub-Section (C) in the list of Fundamental Duties requires an Indian citizen to uphold and protect the sovereignty, unity and $\qquad$ of India.
Ans
X 1. harmony
X 2. fraternity
3. integrity
(4. equality
Q. 8 Puthumana Govindan Namboothiri, chief revivalist and exponent of $\qquad$ received the Kerala State Award by Kerala Folklore Academy on 7 December 2021.

Ans
X 1. Ghode Modini
X 2. Kummi Dance
3. Thidambu Nritham

X4. Charkula Dance
Q. 9 Which aquatic microorganisms eat phytoplankton and then become food for fish, crustaceans and other large species?
Ans
X 1. Virioplankton
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X 2. Zooxanthellae
3. Zooplankton

Х 4. Bacterioplankton
Q. 10 The ___ was a territorial assignment given to administrative officers and nobles in lieu of the services they performed for the state during Delhi sultanate.
Ans
$X 1$. Muahatsib
X 2. Usharaf

- 3. Iqta

X 4. Nazir
Q. 11 Which of the following pairs is NOT correctly matched?

Ans
$X$ 1. Deuce - Tennis
2. Blue Line-Badminton

X 3. Free Throw - Volleyball
X 4. Duck - Cricket

## Q. 12 'Impulse' can be defined as:

Ans $\quad$ 1. the work done by a body for a short time
$X$ 2. the temperature acting on a body for a short time
3. the force acting on a body for a short time
$\times 4$. the force acting on a body for a very long time
Q. 13 The principles of Liberty, Equality and Fraternity were adopted from the Constitution of:

Ans $\quad$ 1. United Kingdom
$X$ 2. Ireland
X 3. Canada
4. France
Q. 14 ___ was a key position in the royal court of Delhi sultanate and his role was of a general supervisor over all departments.
Ans
X 1. Diwan-i-Mustakharaj
X 2. Diwan-i-Amir Kohi
X 3. Diwan-i -Waqoof
4. Diwan-i-Wizarat,
Q. 15 As of March 2022, which of the following dance forms has NOT been listed as a classical www.dotsias.com dance in India?

Ans

1. Lavani

X 2. Mohiniyattam
$X$ 3. Kuchipudi
X 4. Odissi
Q. 16 Digital India scheme was launched in which of the following years?

Ans
X 1.2019
X 2.2010

- 3.2015
$\times 4.2012$
Q. 17 In which year was the Jammu and Kashmir Legislative Council abolished?

Ans
X 1.2022
X 2.2021
X 3.2020
4. 2019
Q. 18 Ileana Citaristi is the first classical dancer of foreign origin who was conferred the Padma Shri Award in 2006 for her contributions to $\qquad$ -.
Ans
X 1. Kathakali
2. Odissi

X 3. Kathak
X 4. Bharatanatyam
Q. 19 "It is a crop which is used both as food and fodder. It is a kharif crop which requires temperature between $21^{\circ} \mathrm{C}$ to $27^{\circ} \mathrm{C}$ and grows well in old alluvial soil." The above given statement talks about which of the following crops?
Ans
$X$ 1. Sugar beet
X 2. Bajra
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- 3. Maize
$\times 4$. Coffee
Q. 20 Who among the following has written the book 'The God of Small Things'?

Ans
X 1. Salman Rushdie
2. Arundhati Roy

X 3. RK Narayan
X 4. Amitav Ghosh
Q. 21 With which of the following Indian states is the cultural festival of Bhagoriya associated?

Ans

- 1. Madhya Pradesh

X 2. Bihar
X 3. Uttar Pradesh
X 4. West Bengal
Q. 22 Which atomic number element of the periodic table is named after Alfred Nobel, the inventor of dynamite and the founder of the Nobel Prize?

Ans
X 1.108
$\times 2.100$
2. 102
$\times 4.105$
Q. 23 Which Article of the Constitution of India deals with the Sessions of the Parliament?

Ans
X 1. Article 101
X 2. Article 90
3. Article 85

X 4. Article 89
Q. 24 Who among the following is associated with the Tabla?

Ans
X 1. Doreswamy Iyengar
X 2. Pannalal Ghosh
X 3. Ronu Majumdar

- 4. Alla Rakha Khan
Q. 25 TR Mahalingam, a legendary musician, was known for playing which of the following instruments?
Ans
$X$ 1. Shehnai

2. Flute
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X 3. Pungi
X 4. Tabla
Q. 26 According to the field guide 'Birds of India' authored by Zoological Survey of India, how many bird species are there in India?
Ans

- 1.1331

X2. 1698
X 3.1459
>4. 1587
Q. 27 'Tuzuk-i-Jahangiri' was originally written in which of the following languages?

Ans
X 1. Arabic
X 2. Sanskrit
3. Persian

X4. Pali
Q. 28 With which of the following Indian states is the cultural festival of Shad Suk Mynsiem associated?

Ans
X 1. Odisha
X2. Goa
3. Meghalaya

X4. Assam
Q. 29 Which of the following sectors was the focus of the first Five-Year Plan?

Ans

1. Agricultural Sector

X 2. Public Sector
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X 3. Service Sector
X 4. Industrial Sector
Q. 30 Who among the following was the Viceroy of India during the formation of the Indian National Congress?
Ans
X 1. Lord Ripon
2. Lord Dufferin

X 3. Lord Mayo
X 4. Lord Lytton
Q. 31 Which of the following countries was the runner-up in the ICC U-19 Cricket World Cup 2022?

Ans $X 1$. Bangladesh
X 2. South Africa
3. England

X 4. Australia
Q. 32 Which plants are included in Thallophyta?

Ans
$X 1$. Nostoc, rose and melon
X 2. Rose, lotus and lichens
X 3. Lichens, vacular plants and pteridophyta
4. Ulva, Chara and Cladophora
Q. 33 Which of the following statement is correct?
I. When any plane passing through the central axis of the body divides the organism into two identical halves, it is called radial symmetry.
II. Where the body can be divided into identical left and right halves in only one plane, exhibit bilateral symmetry.
Ans
$X$ 1. Only I
X 2. Only II
3. Both I and II

X 4. Neither I nor II
Q. 34 Which of the following lakes is correctly paired with the state in which it is located?

Ans $\quad$ 1. Dal lake - Himachal Pradesh
X 2. Loktak lake - Assam
X 3. Chilika lake - Maharashtra
4. Bhimtal lake - Uttarakhand
Q. 35 At what height does the Jet Streams blow in India during winter months?

Ans $\quad \times 1.9-17 \mathrm{~km}$

- 2. 9-13 km

X 3. $9-16 \mathrm{~km}$
X 4. 9-15 km
Q. 36 The Arya Samaj was founded in $\qquad$ by Swami Dayanand Saraswati.
Ans
X 1.1873
X 2. 1863
X 3. 1885

- 4. 1875
Q. 37 Who among the following has written the book 'Three Thousand Stitches: Ordinary People, Extraordinary Lives'?

Ans
$X 1$. Anita Nair
$X$ 2. Shashi Deshpande
3. Sudha Murty

X 4. Arundhati Roy
Q. 38 Which of the following pair of industry - location is correct?
I. Iron and steel plant - Bhilai
II. Cotton textile - Lucknow

Ans $\quad$ 1. Neither I nor II
2. Only II
3. Both I and II

X 4. Only I
Q. 39 Match the gases in column I with their odour in column II.

| Column I |  | Column II |  |
| :--- | :--- | :--- | :--- |
| A. | $\mathrm{CO}_{2}$ | 1. | Colourless gas with the smell of rotten eggs |
| B. | $\mathrm{H}_{2} \mathrm{~S}$ | 2. | A colourless, odourless gas |
| C. | $\mathrm{SO}_{2}$ | 3. | Colourless gas with a pungent smell |

Ans $\quad X 1 . \mathrm{A}-2, \mathrm{~B}-3, \mathrm{C}-1$
2. $A-2, B-1, C-3$

X $3 . A-3, B-1, C-2$
X4. $A-1, B-2, C-3$
Q. 40 Which of the following statements is correct regarding fuse wire?
$X 1$. It has a low melting point and low conductivity.
$X$ 2. It has a high melting point and low conductivity.
$\times$ 3. It has a high melting point and high conductivity.
4. It has a low melting point and high conductivity.
Q. 41 The idea of Rule of Law was adopted from the Constitution of which of the following countries?

Ans
X 1. Canada
$X$ 2. Russia
X 3. United States of America
4. United Kingdom
Q. 42 The Durand Cup, Santosh Trophy and Rovers Cup are related to which sport?

Ans

1. Football

X 2. Cricket
X 3. Hockey
X 4. Badminton
Q. 43 Who was the last sultan of the Lodi Dynasty?

Ans $\quad \times 1$. Sikander Lodi
$X$ 2. Bahlol Lodi
X 3. Khizr Khan
4. Ibrahim Lodi
Q. 44 The detention of a person cannot exceed $\qquad$ unless an advisory board consisting of judges of a High Court reports sufficient cause for extended detention.
Ans
$X$ 1. two months
$X$ 2. one month
3. three months
$X 4$. six months
Q. 45 The first ICC Women's Cricket World Cup was held in the year

Ans
X 1.1978
$\times 2.1982$
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X 3.1988
4. 1973
Q. 46 Which of the following regions have long, cold winters with high winds and average temperatures below freezing for six to ten months of the year?
Ans

- 1. Tundra region

Х 2. Tropical region
X 3. Southern Australia region
Х 4. Mediterranean region
Q. 47 What is a good indicator to identify the effect of policies on the industrial sector?

Ans
Х 1. Rise in banking services
X 2. Rise in capital formation
3. Rise in share of Industry sector in the GDP

X 4. Rise in imports
Q. 48 Which of the following rivers is NOT a tributary of Ganga?

Ans $\times 1$. Yamuna
X 2. Ramaganga
X 3. Ghagra

- 4. Bhima
Q. 49 Which formula is used to represent the three-dimensional structures of molecules using a two-dimensional surface like a sheet of paper or a computer screen?
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Ans
X 1. Lewis structure formula

2. Dash-wedge formula

X 3. Condensed structural formula
X 4. Bond-line formula
Q. 50 What is the percentage of persons below the poverty line estimated in rural areas of India, in 2011-12?

Ans
$\times 1$.
$\times 2$.
$\times 3$.

- 4 .

Section : Quantitative Aptitude
Q. 1 The total surface area of a hemisphere is $462 \mathrm{~cm}^{2}$. The diameter of this hemisphere is:

Ans

- 1.14 cm
$\times 2.7 \mathrm{~cm}$
$\times 3.28 \mathrm{~cm}$
$\times 4.21 \mathrm{~cm}$
Q. 2 The average score in an English exam of a class of 45 students in a coaching centre is 52. A group of 6 boys having an average score of 40 leave the class and another group of eight boys having an average score of 43 join the class. What is the new average score of the class?
Ans
$\times 1.49 .5$
- 2.52
$\times 3.53$
$\times 4.48$
Q. 3
www.dotsias.com
Ans
$\times 1.97$
- 2.112
$\times 3.99$
$\times 4.100$
Q. 4

Ans $\times 1.7$

- 2.10
$\times 3.8$
X4.9
Q. 5 A train crosses two persons travelling at $4 \mathrm{~km} / \mathrm{h}$ and $6 \mathrm{~km} / \mathrm{h}$ in the same direction in 12 sec and 14 sec , respectively. The speed of the train is $\qquad$
Ans
X $1.20 \mathrm{~km} / \mathrm{h}$
X2. $26 \mathrm{~km} / \mathrm{h}$

3. $18 \mathrm{~km} / \mathrm{h}$

X4. $24 \mathrm{~km} / \mathrm{h}$
Q. 6

Ans
$\times 1.2545$
$\times 2.2540$

- 3.2450
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$\times 4.2455$
Q. 7

Ans $\quad \times 1$.
$\times 2$.

- 3. 

$\times 4$.
Q. 8 In an election between two candidates, $85 \%$ of the voters cast their votes, out which $4 \%$ of the votes were declared invalid. A candidate got 6936 votes which were $85 \%$ of the valid votes. Find the total number of voters enrolled in that election.

Ans
X 1.10,800
X 2.10,500
X 3.10,700
4.10,000
Q. 9

Ans $\quad \times 1$.
$\times 2$
$\times 3$.
4.
Q. 10 Ankita can write a manuscript in 20 days. Ankita, along her friend Somya, can write the manuscript in 12 days. In how many days can Somya alone write the manuscript ?
Ans
$\times 1.22$
$\times 2.28$
-3. 30
$\times 4.32$
Q. 11

Ans $\times 1.30 .2 \%$
X 2. 20.4\%

- $3.28 .8 \%$
×4.14.6\%
Q. 12 The ratio of first and second sum of money is $7: 8$. If the first sum is 35 , the second sum is:

Ans
$\times 1.44$
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2. 40
$\times 3.56$
$\times 4.45$
Q. 13 A sum becomes Rs. 7436 in two years when interest is compounded annually at the rate of

4\% per annum. What was the sum?
Ans $\quad$ 1. Rs.6,275
2. Rs.6,875

X 3. Rs.7,075
X 4.Rs.6,575
Q. $14 \operatorname{In} \triangle A B C, 2 \angle A=3 \angle B=6 \angle C$. What is the value of the largest angle among these three angles?
Ans

- 1. 

$\times 2$.
$\times 3$.
$\times 4$.
Q. 15 The difference between the semi-perimeter and the sides of $\triangle P Q R$ are $18 \mathrm{~cm}, 17 \mathrm{~cm}$ and 25 cm , respectively. Find the area of the triangle.
Ans
× 1 .
$\times 2$.
$\times 3$.

- 4 .
Q. 16

Ans
$\times 1$
$\times 2$.

- 3. 

$\times 4$.
Q. 17 In a circle of radius $5 \mathrm{~m}, \mathrm{AB}$ and CD are two equal and parallel chords of length 8 m each. What is the distance between the chords?
Ans
X 1.8 m
X2.3m
3.6 m

X4.5m
Q. 18 What are the values of ' $\&$ ' and ' $\#$ ', respectively, if the following number is perfectly divisible by 9 ?
51\&918\#0
Ans $\quad \times 1.4$ and 5
$\times 2.9$ and 8
$\times 3.2$ and 2

- 4.8 and 4
Q. 19 Elizabeth went to a furniture store and purchased a study table. She received a 20\%
discount on it. She would have saved Rs. 1,000 more if she had received a $25 \%$ discount.
What was the marked price of the sofa?
Ans
X 1.Rs.21,100
- 2. Rs.20,000

X 3. Rs.18,900
X 4.Rs.19,200
Q. 20 Let $\mathrm{x}=224$ and, $\mathrm{y}=322$. If the highest common factor of 23 x and axy is divisible by x and y , then what can be the possible value of a?

Ans
$\times 1.4$
$\times 2.12$
$\times 3.8$

- 4.16
Q. 21

Ans
$\times 1.140$
$\times 2.156$

- 3.154
$\times 4.150$
Q. 22 If the hypotenuse of an isosceles right-angled triangle is 10 cm , then the other two sides (in cm ) are $\qquad$
Ans
, $1.5 \sqrt{ } 2$ and $5 \sqrt{ } 2$
X 2. 10V2 and 10v2
X $3.6 \sqrt{ } 2$ and $6 \sqrt{ } 2$
$\times 4.8 \sqrt{ } 2$ and $8 \sqrt{ } 2$
Q. 23

Ans $\quad \times 1$.

- 2. 

$\times 3$.
$\times 4$.
Q. 24

Ans
$\times 1.3704 \mathrm{~cm}^{2}$

- $2.3850 \mathrm{~cm}^{2}$
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$\times 3.3675 \mathrm{~cm}^{2}$
$\times 4.3750 \mathrm{~cm}^{2}$
Q. 25 A can run 250m in 25 sec and $B$ in $\mathbf{3 0}$ sec. How many metres start can $A$ give to $B$ in a km race so that the race may end in a dead-heat?
Ans
X 1.186 .34 m
X 2.169 .53 m
- 3.166 .67 m
$\times 4.173 .82 \mathrm{~m}$
Q. 26 If the area of the base of a cone is $154 \mathrm{~cm}^{2}$ and the area of its curved surface is $550 \mathrm{~cm}^{2}$, then its volume is:
Ans
$\times 1$.
$\times 2$.
- 3. 

$\times 4$.
Q. 27 If $1+\sin ^{2} \theta-3 \sin \theta \cos \theta=0$, then the value of $\cot \theta$ is:

Ans $\times 1$.
$\times 2$.

- 3. 

$\times 4$.
Q. 28 A car starts at 3 p.m.at a speed of $50 \mathrm{~km} / \mathrm{h}$. Another car follows it at $\mathbf{4}$ p.m.at a speed of 75
$\mathrm{km} / \mathrm{h}$. At what time will the two cars will meet?
Ans
X 1.8 p.m.
$\times 2.5$ p.m.

- 3.6 p.m.
$\times 4.7$ p.m.
Q. 29 In an election between two candidates, a candidate secured $60 \%$ of the valid votes and is elected by a majority of 180 votes. The total number of valid votes is:
Ans
$\times 1.800$
X 2.1200
- 3.900
$\times 4.1000$
Q. $30 A B$ is a chord in a circle of radius 13 cm . From centre 0 , a perpendicular is drawn through $A B$ intersecting $A B$ at point $C$. The length of $O C$ is 5 cm . What is the length of $A B$ ?
Ans
$\times 1.12 \mathrm{~cm}$
$\times 2.15 \mathrm{~cm}$
- 3.24 cm
$\times 4.20 \mathrm{~cm}$
Q. 31 The mean proportion of 0.03 and 0.27 is:

Ans
$\times 1.0 .03$
$\times 2.0 .06$

- 3.0 .09
$\times 4.0 .15$
Q. 32

Ans $\times 1$.
$\checkmark 2$.
$\times 3$.
$\times 4$.
Q. 33

Ans $\times 1.52$
$\times 2.65$
$\times 3.47$

- 4.58
Q. 34 The salary of an employee was first increased by $15 \%$ and thereafter it was reduced by $10 \%$. What was the percentage change in his salary?

Ans
X1.10\%
2. $3.5 \%$
$\times 3.15 \%$
X4.103.5\%
Q. 35

Ans
$\times 1.2$

- 2.3
$\times 3.4$
$\times 4.1$
Q. 36 Reena, Veena and Vimla can do a work in $4 \mathrm{~h}, \mathbf{8} \mathrm{~h}$ and 12 h respectively. In how much time will they finish the work working together?
Ans
X 1 .
2 .
$\times 3$.
$\times 4$.


## Q. 37

Ans
X1.69:125
2. $124: 69$

X $3.69: 124$
$\times 4.31: 69$
Q. 38

Ans $\quad \times 1.2008$

- 2.2007

X 3.2010
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X 4.2011

Question ID : 26433064941
Status : Not Answered
Chosen Option : --
Q. 39

Ans $\quad \times 1$.
$\times 2$.

- 3. 

$\times 4$.
Q. 40

Ans 1.1764
$\times 2.1324$
X 3.1944
X4.1864
Q. 41 After successive discounts of $10 \%$ and $5 \%$, an article was sold for Rs.342. What was the original price of the article?
Ans
X 1. Rs. 342
X 2. Rs. 442
3. Rs. 400

X 4. Rs. 300
Q. 42 Swastik purchased a laptop for Rs. 75,000 and sold it to Anju suffering a loss of $10 \%$. Anju sold the same laptop after earning a profit of $20 \%$. At what price (in Rs.) did Anju sell the laptop?

Ans
X 1.Rs.78,500
2. Rs.81,000

X 3. Rs.90,000
X 4. Rs.85,000
Q. 43 The highest common factor of 120,360 and 210 is :

Ans
$\times 1.3$
$\times 2.15$

- 3.30
$\times 4.12$
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Q. 44 During a journey of 120 km , Rahi drives first 60 km at the speed of $60 \mathrm{~km} / \mathrm{h}$, next 30 km at $60 \mathrm{~km} / \mathrm{h}$ and the remaining 30 km at the speed of $30 \mathrm{~km} / \mathrm{h}$. Determine the average speed.
Ans
, $1.48 \mathrm{~km} / \mathrm{h}$
X 2. $40 \mathrm{~km} / \mathrm{h}$
X $3.33 .33 \mathrm{~km} / \mathrm{h}$
X $4.50 \mathrm{~km} / \mathrm{h}$
Q. 45 The area of a trapezium shaped field is 1785 square feet. The distance between the two parallel sides is 35 feet and one of the parallel sides is 42 feet long. What is the length of the other parallel side?
Ans
X 1.35 feet
$\times 2.40$ feet
v. 60 feet
$\times 4.65$ feet
Q. 46 The LCM and ratio of three numbers are 1386 and $3: 7: 11$, respectively. The sum of the greatest and least numbers is:
Ans
$\times 1.60$

2. 108

- 3.84
$\times 4.64$
Q. 47

Ans
$\checkmark 1$.
$\times 2$
$\times 3$.
$\times 4$.
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Q. 48 Simplify the following expression.
$25 \div 5$ of $12 \times 2-9 \div 27$ of $3 \times 5-14 \div 28 \times 4$
Ans
$\times 1$.
$\times 2$.
3.
$\times 4$.
Q. 49

Ans

- 1.579
$\times 2.529$
$\times 3.626$
$\times 4.721$
Q. 50 In a test (+5) marks are given for every correct answer and ( -2 ) marks are given for every incorrect answer. Jay answered all the questions and scored ( -12 ) marks, though he got 4 correct answers. How many of his answers were INCORRECT?
Ans
$\times 1.8$
$\times 2.32$
X 3.20
- 4.16


## Section : English Comprehension

Q. 1 Select the INCORRECTLY spelt word.

Ans
$X 1$. Measure
$X$ 2. Branding
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X 3. Rectify
4. Subscrieb
Q. 2 Select the most appropriate option that can substitute the underlined segment in the given sentence.

I like to meeting of people who have travelled widely.
Ans

1. like meeting people

X 2. will like meeting with people
$X$ 3. like to be meeting people
$\times 4$. like meet to people
Q. 3 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 has always been / quite careless for / his own safety.
Ans
$X 1$. He has always been
$X$ 2. No error
X 3. his own safety
4. quite careless for
Q. 4 Select the most appropriate meaning of the given idiom.

As good as gold
Ans

1. A person who is obedient and well-behaved
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$X$ 2. A person who is good like gold but not better
X 3. A golden person
$\times 4$. A person who loves gold
Q. 5 Select the option that substitutes the bracketed word-segment correctly and completes the sentence meaningfully.

Vicky and Deepa (tries their level best) to run from the ritual.
Ans
$X 1$. had tries their level best
2. try their level best
$X$ 3. have try their level best
$\times 4$. tries their best level
Q. 6 Select the most appropriate meaning of the given idiom.

Hold your horses
Ans

1. To tell someone to stop and consider carefully
$X$ 2. To keep the horse chain intact
$X 3$. Holding and keeping things by yourself
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X 4. Give time to others for some rest
Q. 7 Select the most appropriate meaning of the underlined word in a sentence.

She was a brave woman but she felt daunted by the task ahead.
Ans
$X 1$. bold
$\times$ 2. appreciated
$\times$ 3. encouraged
4. intimidated
Q. 8 Select the INCORRECTLY spelt word.

Ans
X 1. Mission
2. Miarage

X 3. Missing
X 4. Mistaken
Q. 9 Select the INCORRECTLY spelt word.

Ans
$X$ 1. Bovine
X 2. Ecclesiastical
3. Calamitious

X 4. Quarrelsome
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Q. 10 Select the most appropriate meaning of the given idiom.

To judge a book by its cover
Ans
$X 1$. To understand a difficult situation
$X 2$. To be good at evaluating people
3. To evaluate people's worth by their outward appearance
4. To strictly follow the rules
Q. 11 Select the most appropriate meaning of the given idiom.

In seventh heaven
Ans
$X 1$. In the presence of God
$X 2$. Seven-day birthday ceremony
$X$ 3. Extremely sad
4. Extremely happy
Q. 12 Select the option that expresses the given sentence in active voice. The movie was being released on Friday.

Ans

1. They were releasing the movie on Friday.
$\times 2$. They are releasing the movie on Friday.
$\chi$ 3. The movie is being released on Friday.
2. They have been releasing the movie on Friday.
Q. 13 Select the correct meaning of the idiom in bold and italics.

Sometimes I just have to resort to the carrot and stick approach with my children.
Ans 1. Mixture of rewards and punishments
2. To be optimistic or enthusiastic
3. Waste one's efforts by pursuing the wrong thing or path
4. Practically identical in appearance
Q. 14 Select the correct meaning of the idiom in bold and italics.

Look, the devil is beating his wife. Do you think we'll see a rainbow?
Ans

1. The sun is shining while it rains
$X$ 2. When someone comes in unexpectedly while being talked about
X 3. One who presents a counter argument
2. If you have nothing to do, you are likely to do some mischief
Q. 15 Select the most appropriate ANTONYM of the given word.

Better
Ans
$X$ 1. Fitter
X 2. Brave
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3. Inferior

X 4. Homely
Q. 16 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'.

Jeremy does not like to discuss his personnel problems openly.
Ans

1. personal problems
$X$ 2. No substitution required
X 3. person problem
X 4. personnel problem
Q. 17 Identify the INCORRECTLY spelt word in the given sentence.

The most frequent medallion composition on a carpet consists of a more or less elaborate motif superimposed on the centre of a patterned field and often complemented with corner pieces, which are typically quardants of the central medallion.
Ans
$X$ 1. complemented
2. quardant
$X$ 3. medallion
$\times$ 4. elaborate
Q. 18 Select the most appropriate synonym of the given word.

Chaos
Ans
$X$ 1. Tidiness
X 2. Certainty
3. Disarray

X 4. Insanity
Q. 19 Identify the INCORRECTLY spelt word in the given sentence.

After the severe bus accident, they tried to identify the victims, but the bodies were too manlged to be investigated.
Ans
$X 1$. victims
X 2. accident
3. manlged

X 4. investigated
Q. 20 Select the most appropriate meaning of the given idiom.

Wet blanket
Ans

1. One who spoils other people's fun
$\times 2$. One who acts stupidly
X 3. One who cannot be trusted
X 4. One who is frequently ill
Q. 21 Select the most appropriate synonym of the underlined word in the given sentence. The scene of Ratan's friend's bike accident remains stamped in his memory.
Ans
2. imprinted

X 2. approved
$X$ 3. shunned
X 4. scary
Q. 22 Select the most appropriate synonym of the given word.

Cornucopia
Ans
$X 1$. Sink hole
$\times$ 2. Avarice
X 3. Malaise
4. Treasure trove
Q. 23 Select the most appropriate ANTONYM of the capitalised word in the given sentence.

Affluent people tend to look upon illiteracy with comfortable DETACHMENT.
Ans
$X 1$. Justice
$X$ 2. Humour
3. Subjectivity

X 4. Neutrality
Q. 24 Select the most appropriate synonym of the given word.

Obliterate
Ans
$X 1$. Healed
$X$ 2. Patched
3. Abolish
$X$ 4. Mended
Q. 25 Select the most appropriate synonym of the highlighted word. The crowds gathered were partisan in nature.
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Ans
X 1. Kind
2. biased

X 3. pitiful
X 4. Destructive
Q. 26 Select the option that can be used as a one-word substitute for the given group of words.

A letter, poem etc. whose author is unknown.
Ans

1. Anonymous
$\times 2$. Autocrat
$\times$ 3. Anomalous
X 4. Autonomous
Q. 27 Select the option that can be used as a one-word substitute for the given group of words.

Hatred
Ans

1. Malevolence

X 2. Malleable
X 3. Malapropos
X 4. Magnanimous
Q. 28 Select the option that substitutes the bracketed word-segment correctly and completes the sentence meaningfully.

Covid- 19 pandemic has resulted in (an slow change in flowing of capital) generated by workers.
Ans
$X$ 1. an sudden change to flow of capital
2. a sluggish change in the flow of capital
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X 3. an deliberate change to flow of capital
$X 4$. an abrupt change in the flow of capital
Q. 29 Select the most appropriate phrase for the underlined segment in the given sentence.

She brought new ideas for the innovative promotion of the product.
Ans
$X$ 1. Draw on
2. Came up with

X 3. Carry off
X 4. Swept off
Q. 30 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.
In order to succeed in life, we need to work instead waste time.
Ans
$X 1$. despite wasting time
2. No improvement required

X 3. in spite of wasting time
4. instead of wasting time
Q. 31 Select the most appropriate synonym of the given word. Bonhomie

Ans
$X 1$. Enemy
X 2. Disagreeable
3. Friendship
$\times 4$. Bad-natured
Q. 32 Select the most appropriate ANTONYM of the given word.

Integrate
Ans
X 1. Accept
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2. Separate

X 3. Excite
X 4. Influence
Q. 33 Select the most appropriate ANTONYM of the given word.

Barbaric
Ans
X 1. Indifferent
2. Civilised
$\times 3$. Inquisitive
X 4. Brutal
Q. 34 Select the most appropriate synonym of the given word.

Gourmet
Ans

1. Epicure

Х 2. Indifferent
X 3. Non-indulgent
X 4. Detached
Q. 35 Select the most appropriate meaning of the given idiom.

At the eleventh hour
Ans

1. Just before the deadline
2. Very late in the evening

X 3. A state of confusion
< 4. Time for debate
Q. 36 Select the most appropriate option to fill in the blank.

It is never advisable to have an axe to $\qquad$ _.

Ans

- 1. grind
$\times$ 2. rotate
X 3. kill
X 4. replace
Q. 37 Select the option that can be used as a one-word substitute for the given group of words.

The main character in a story.
Ans
X 1. Antagonist
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2. Protagonist

X 3. Player
X 4. Leader
Q. 38 Select the most appropriate option that can substitute the underlined words.

A government that takes decisions based on the recommendations of state officials instead of elected representatives
Ans
X 1. Democracy
2. Bureaucracy

X 3. Autocracy
X 4. Gerontocracy
Q. 39 Select the most appropriate option that can substitute the underlined segment in the given sentence.

The dance performance was more beautifuler than I expected.
Ans
$X 1$. was most beautiful
2. was more beautiful
$X 3$. is being more beautiful
X 4. was beautiful
Q. 40 Identify the sentence that correctly uses the indefinite article.

Ans
$X 1$. Cloud seeding involves use of chemicals that target rain-bearing clouds above an catchment area such as an river, reservoir or a lake.
2. Cloud seeding involves use of chemicals that target rain-bearing clouds above a catchment area such as a river, reservoir or a lake.
$X$ 3. Cloud seeding involves use of chemicals that target rain-bearing clouds above an catchment area such as a river, reservoir or an lake.
$X 4$. Cloud seeding involves use of chemicals that target rain-bearing clouds above a catchment area such as an river, reservoir or an lake.

## Comprehension:

Read the given passage and answer the questions that follow.
On May 2, 2018, severe dust storms and thunderstorms hit parts of Rajasthan, Uttar Pradesh, and other adjoining regions. Explaining the reasons behind such severe weather system, M . Mohapatra, senior scientist with the India Meteorological Department (IMD) said that dust storms and thunderstorms are a result of nearly similar weather conditions, like intense heat. Areas that have moisture in the air experience thunderstorms while those which don't have moisture experience dust storms.
"All such conditions were being fulfilled on that day. The region had moist easterly winds coming from the Bay of Bengal and there was western disturbance system too. All this together triggered the events on May 2," he added.
In simple terms, dust storm can be explained as a phenomenon when strong winds carry dust over an extensive area.
As far as the timing of their occurrence is concerned, Mohapatra stated that there is no deviation in time of occurrence of a dust storm and thunderstorm activity as they usually peak in the pre-monsoon period.
These events happen between March and May only. In the pre-monsoon period temperatures are very high, around $44-45$ degree Celsius and lead to such activities.
Even as dust storms and thunderstorms are a common feature every year there has been no focused work on studying the trends related to it.
"In the coming years there could be more instances of intense thunderstorms and sand storms but they have to be studied in detail looking at the data of over 30-40 years to notice a trend. Work has been more or less confined to cyclones and monsoon systems but not much on dust storms or thunderstorms. It needs study," admitted Mohapatra.
The extent of damage caused by thunderstorm activity in India can be gauged from the data of India's National Crime Records Bureau (NCRB). As per the NCRB data, compared to other natural disasters like cyclone, floods or heat waves, lightning kills more people in India. For instance, at least 25 percent of the 10,510 accidental deaths attributable to forces of nature in 2015 were due to lightning. The number of deaths due to lightning has constantly remained over 2,000 every year since 2005.

## SubQuestion No : 41

Q. 41 Which of the following statements is NOT true according to the passage?

Ans $\quad \times 1$. Cyclones and monsoon systems have been studied more than dust storms and thunderstorms.

X 2. The western disturbances cause dust storms in Rajasthan and nearby regions.
3. Thunderstorms occur where the air is dry.

X 4. Both, dust storms and thunderstorms occur due to similar weather conditions like intense heat.
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SubQuestion No : 42
Q. 42 Among the natural disasters, which is the highest killer in India?

Ans
$X$ 1. Cyclones
$X$ 2. Heat waves
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3. Lightning

$X 4$. Floods

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In simple terms, dust storm can be explained as a phenomenon when strong winds carry dust over an extensive area.
As far as the timing of their occurrence is concerned, Mohapatra stated that there is no deviation in time of occurrence of a dust storm and thunderstorm activity as they usually peak in the pre-monsoon period.
These events happen between March and May only. In the pre-monsoon period temperatures are very high, around $44-45$ degree Celsius and lead to such activities.
Even as dust storms and thunderstorms are a common feature every year there has been no focused work on studying the trends related to it.
"In the coming years there could be more instances of intense thunderstorms and sand storms but they have to be studied in detail looking at the data of over 30-40 years to notice a trend. Work has been more or less confined to cyclones and monsoon systems but not much on dust storms or thunderstorms. It needs study," admitted Mohapatra.
The extent of damage caused by thunderstorm activity in India can be gauged from the data of India's National Crime Records Bureau (NCRB). As per the NCRB data, compared to other natural disasters like cyclone, floods or heat waves, lightning kills more people in India. For instance, at least 25 percent of the 10,510 accidental deaths attributable to forces of nature in 2015 were due to lightning. The number of deaths due to lightning has constantly remained over 2,000 every year since 2005.

SubQuestion No : 43
Q. 43 When do dust storms and thunderstorms generally occur?

Ans $\quad \times 1$. During winters
$X$ 2. During monsoon
3. In the pre-monsoon period
$\times$ 4. After the rains

## Comprehension:

Read the given passage and answer the questions that follow.
On May 2, 2018, severe dust storms and thunderstorms hit parts of Rajasthan, Uttar Pradesh, and other adjoining regions. Explaining the reasons behind such severe weather system, M . Mohapatra, senior scientist with the India Meteorological Department (IMD) said that dust storms and thunderstorms are a result of nearly similar weather conditions, like intense heat. Areas that have moisture in the air experience thunderstorms while those which don't have moisture experience dust storms.
"All such conditions were being fulfilled on that day. The region had moist easterly winds coming from the Bay of Bengal and there was western disturbance system too. All this together triggered the events on May 2," he added.
In simple terms, dust storm can be explained as a phenomenon when strong winds carry dust over an extensive area.
As far as the timing of their occurrence is concerned, Mohapatra stated that there is no deviation in time of occurrence of a dust storm and thunderstorm activity as they usually peak in the pre-monsoon period.
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## SubQuestion No : 44

Q. 44 A dust storm mainly occurs due to:
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Ans

1. intense heat
$X$ 2. moisture in the air
$X$ 3. extreme cold
$X$ 4. easterly winds

## Comprehension:

Read the given passage and answer the questions that follow.
On May 2, 2018, severe dust storms and thunderstorms hit parts of Rajasthan, Uttar Pradesh, and other adjoining regions. Explaining the reasons behind such severe weather system, M . Mohapatra, senior scientist with the India Meteorological Department (IMD) said that dust storms and thunderstorms are a result of nearly similar weather conditions, like intense heat. Areas that have moisture in the air experience thunderstorms while those which don't have moisture experience dust storms.
"All such conditions were being fulfilled on that day. The region had moist easterly winds coming from the Bay of Bengal and there was western disturbance system too. All this together triggered the events on May 2," he added.
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The extent of damage caused by thunderstorm activity in India can be gauged from the data of India's National Crime Records Bureau (NCRB). As per the NCRB data, compared to other natural disasters like cyclone, floods or heat waves, lightning kills more people in India. For instance, at least 25 percent of the 10,510 accidental deaths attributable to forces of nature in 2015 were due to lightning. The number of deaths due to lightning has constantly remained over 2,000 every year since 2005.
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## SubQuestion No: 45

Q. 45 The passage is mainly about:

Ans 1. dust storms and thunderstorms
$X$ 2. a thunderstorm in Rajasthan
X 3. a dust storm in Rajasthan and Uttar Pradesh
$X$ 4. the damage caused by thunderstorms

## 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.
The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, (1) $\qquad$ increasingly in greater demand. With climate change, increasing pollution, and depleting natural resources, there will be a sizeable shift in how we (2) the world's energy, water, food, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, agriculture, climate science, and social science. The growing (3) $\qquad$ of epidemics and pandemics will also (4) collaborative research in infectious disease management and development of vaccines and the resultant social issues heightens the need for multidisciplinary learning. There will be a growing (5) $\qquad$ for humanities and art, as India moves towards becoming a developed country as well as among the three largest economies in the world.

SubQuestion No: 46

## Q. 46 Select the most appropriate option to fill blank 1.

Ans

1. will be
$X 2$. should be
$X$ 3. are
$X 4$ is

## 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.
The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, (1) $\qquad$ increasingly in greater demand. With climate change, increasing pollution, and depleting natural resources, there will be a sizeable shift in how we (2) the world's energy, water, food, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, agriculture, climate science, and social science. The growing (3) $\qquad$ of epidemics and pandemics will also (4) collaborative research in infectious disease management and development of vaccines and the resultant social issues heightens the need for multidisciplinary learning. There will be a growing (5) $\qquad$ for humanities and art, as India moves towards becoming a developed country as well as among the three largest economies in the world.

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

Ans
$X 1$. see
www.dotsias.com
2. meet
$\times$ 3. had
X 4. have

## 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.
The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, (1) $\qquad$ increasingly in greater demand. With climate change, increasing pollution, and depleting natural resources, there will be a sizeable shift in how we (2) the world's energy, water, food, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, agriculture, climate science, and social science. The growing (3) $\qquad$ of epidemics and pandemics will also (4) collaborative research in infectious disease management and development of vaccines and the resultant social issues heightens the need for multidisciplinary learning. There will be a growing (5) $\qquad$ for humanities and art, as India moves towards becoming a developed country as well as among the three largest economies in the world.

## SubQuestion No : 48

## Q. 48 Select the most appropriate option to fill blank 3.

Ans $X$ 1. need
2. emergence

X 3. dissolution
X 4. wane

## 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.
The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, (1) $\qquad$ increasingly in greater demand. With climate change, increasing pollution, and depleting natural resources, there will be a sizeable shift in how we (2) the world's energy, water, food, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, agriculture, climate science, and social science. The growing (3) $\qquad$ of epidemics and pandemics will also (4) collaborative research in infectious disease management and development of vaccines and the resultant social issues heightens the need for multidisciplinary learning. There will be a growing (5) $\qquad$ for humanities and art, as India moves towards becoming a developed country as well as among the three largest economies in the world.

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

Ans

1. call for
$X$ 2. call in
$\times$ 3. call off
X 4. call out

## Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, (1) $\qquad$ increasingly in greater demand. With climate change, increasing pollution, and depleting natural resources, there will be a sizeable shift in how we (2) the world's energy, water, food, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, agriculture, climate science, and social science. The growing (3) $\qquad$ of epidemics and pandemics will also (4) collaborative research in infectious disease management and development of vaccines and the resultant social issues heightens the need for multidisciplinary learning. There will be a growing (5) $\qquad$ for humanities and art, as India moves towards becoming a developed country as well as among the three largest economies in the world.

## SubQuestion No : 50

Q. 50 Select the most appropriate option to fill blank 5.

Ans
$\checkmark$ 1. demand
$X$ 2. claim
$X$ 3. command
X 4. extort

