Telangana State Council Higher Education

Notations:
1. Options shown in green color and with ✔ icon are correct.
2. Options shown in red color and with ✗ icon are incorrect.

Question Paper Name: TS ICET URDU 2020 30th Sept 2020 Shift 2
Subject Name: TS ICET URDU 2020
Creation Date: 2020-10-01 15:18:23
Duration: 150
Number of Questions: 158
Total Marks: 200
Display Marks: No
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes
Calculator: None
Magnifying Glass Required?: No
Ruler Required?: No
Eraser Required?: No
Scratch Pad Required?: No
Rough Sketch/Notepad Required?: No
Protractor Required?: No
Show Watermark on Console?: Yes
Highlighter?: No
Auto Save on Console?: Yes

TS ICET URDU 2020

Group Number: 1
Group Id: 39448418
Group Maximum Duration: 0
Group Minimum Duration: 150
Show Attended Group?: No
Edit Attended Group?: No
Break time: 0
Group Marks: 200
Is this Group for Examiner?: No

Analytical Ability

Section Id: 39448452
Section Number: 1
Section type: Online
Mandatory or Optional: Mandatory
Number of Questions: 45
Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labelled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
(b) Mark choice (2) if the statement II alone is sufficient to answer the question.
(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statement alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

Sub questions:

Question Number : 1 Question Id : 3944843538 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Is \( x \) a rational number?

(I) \( x = b + c \)

(II) \( b \) and \( c \) are irrational numbers.

\[
\begin{align*}
\text{کیا } x \text{ ایک مقیاس معتبر ہے؟} \quad (I) \\
x = b + c \\
\text{اور } c \text{ اور } b \text{ مقیاس معتبر نہیں ہیں.} \\
(II)
\end{align*}
\]

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔️ 4
In the adjacent figure what is the area of the square $ABCD$?

(I) \[ AC = 16 \text{ cm} \]
\[ AC = 16 \text{ cm} \]

(II) The areas of the circles $C_1$ and $C_2$ are in ratio of 4:1

AC = 16 cm (I)

AC = 16

کے سرکل کا تیار 1:4 کی نسبت ہے (II)

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
\( f(x) \) is a polynomial with integer coefficients. Is \((x+2)\) a factor of \( f(x) \)?

(I) \[ f(x) = 2x^4 + bx^3 + cx^2 + dx + e \]

(II) \[ 8b - 4c + 2d - e = 32 \]

\((x+2)\) a factor of \( f(x) \)

\[ f(x) = 2x^4 + bx^3 + cx^2 + dx + e \quad (I) \]

\[ 8b - 4c + 2d - e = 32 \quad (II) \]

Options:
1. ★ 1
2. ★ 2
3. ✔ 3
4. ★ 4

Question Number : 4 Question Id : 3944843541 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Find the area of the sector?

(I) Length of the arc = 1 unit.

(II) Radius of sector is six times length of arc.

Options:
1. 1
2. 2
3. 3
4. 4

Question Number : 5 Question Id : 3944843542 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
A person can purchase three articles for Rs.49. What is the price of the costliest article?

(I) The cost price of two articles each is Rs.1 less than the cost price of the costliest article.

(II) The cost price of costliest article is 6.25% more than the cost price of the cheapest article.

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 6 Question Id : 3944843543 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Is the polygon $ABCD$ a trapezium?

(I) It has a pair of parallel sides.

(II) Two of its sides are equal in length.

Options:
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4
What is the median of the frequency distribution?

(I) Its arithmetic mean is 57.

(II) Its mode is 55.

Options:
1. 1
2. 2
3. 3
4. 4

Question Number: 8 Question Id: 3944843545 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
What is the positive integral value of \( x \) ?

(I) \( 39 < 7x + 3 < 46 \)

(II) \( 25 < x^2 < 49 \)

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 9 Question Id : 3944843546 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
What is the LCM of two numbers \( a \) and \( b \)?

(I) The GCD of \( a \) and \( b \) is 3.

(II) \( a \) is even and \( b \) is odd.

\[
\text{LCM}_a \neq a + b
\]

The GCD of \( a \) and \( b \) is 3. (I)

\( a \) is even and \( b \) is odd. (II)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 10 Question Id : 3944843547 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
What is the digit in the Ten’s place of the number \( n \) ?

(I) \( n > 100 \)

(II) \( n \) gives remainder 69 when divided by 100.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 11 Question Id : 3944843548 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
If $A$ is a square matrix, what is $\det A$?

(1) $\det 5A = 45$

(2) $\det 10A = 360$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 12 Question Id: 3944843549 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
How old is Rakesh now?

(I) Seven years ago, Rakesh was older than Suresh by eight years.

(II) Presently Rakesh is thrice as old as Suresh.

Options:
1. 1
2. 2
3. 3
4. 4
Find the cost of two benches and three chairs?

(I) The cost of 5 benches, 10 chairs is Rs. 17500.

(II) The cost of 7 benches, 11 chairs is Rs. 27500.

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 14 Question Id: 3944843551 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Find the value of \( \frac{x^3 + y^3}{x + y} \).

(I) \( x = \frac{4}{y} \)

(II) \( x^2 + y^2 = 12 \)

\[
x = \frac{4}{y} \quad (I)
\]
\[
x^2 + y^2 = 12 \quad (II)
\]
Find the volume of the cone C

(I) Height of C > radius of C

(II) Volume of the cylinder, whose radius and height are same and C, is 300 cm$^3$.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 16 Question Id: 3944843553 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
What is the number of elements in the set $A$?

(I) Number of elements in $A \cup B$ is 35.

(II) Number of elements in $B - A$ is 7.

(Here $B$ is also a set.)

Number of elements in $A \cup B$ is 35 (I)

Number of elements in $B - A$ is 7 (II)

Options:
1. ■ 1
2. ■ 2
3. ✔ 3
4. ■ 4
What is the value of \( \cos^4 \theta + \sec^4 \theta \)?

(I) \( \sin^2 \theta + \cos^2 \theta = 1 \)

(II) \( \cos \theta + \sec \theta = 2 \)

Options:
1. ✔️ 1
2. ✔️ 2
3. ✗ 3
4. ✗ 4

Question Number: 18 Question Id: 3944843555 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
What is cost price of the article?

(I)  It is sold for Rs. $X$ at a loss of 20%.

(II) If it is sold for Rs. $(X+50)$ the profit would have been 10%.

Options:
1. 1
2. 2
3. 3
4. 4

Question Number : 19 Question Id : 3944843556 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
If a set $X$ has 22 elements and $A$ is a subset of $X$, then what is the number of subsets of $X$ that are disjoint from $A$?

(I) Set $A$ has less than 10 elements.

(II) The largest subset of $X$ disjoint from $A$ has 14 elements.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✔ 4

Question Number : 20  Question Id : 3944843557  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
What is the value of \( y \)?

(I) \( x = 2y + z \).

(II) \( x = (y - 1)^3 \) and \( x = 8 \).

\[ x = (y - 1)^3 \Rightarrow 1 - x = (y - 1)^3 \Rightarrow y = 8. \]

Options:
1. \( \star \) 1
2. \( \checkmark \) 2
3. \( \star \) 3
4. \( \star \) 4

Sub-Section Number: 2
Sub-Section Id: 394484359
Question Shuffling Allowed: Yes

Question Number: 21 Question Id: 3944843558 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
(1) 131621
(2) 131520
(3) 131620
(4) 121621

131621 (1)
131520 (2)
131620 (3)
121621 (4)

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 22 Question Id: 3944843559 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
BMS : ZKQ :: ___ : AXY

(1) CZA
(2) DAB
(3) CYD
(4) BAD

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 23 Question Id: 3944843560 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
c. ___ h. ___, t

(1) f, n
(2) e, m
(3) d, m
(4) e, n

Options:
1. * 1
2. ✔ 2
3. * 3
4. * 4

Question Number : 24 Question Id : 3944843561 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Foot : Inch :: Year : ____

(1) Decade
(2) Day
(3) Week
(4) Month

Decade (1)
Day (2)
Week (3)
Month (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 25 Question Id : 3944843562 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
(6, 7) : 21 :: (8, 9) : ____

(1) 27
(2) 36
(3) 45
(4) 38

(6, 7) : 21 :: (8, 9) : ____

27 (1)
36 (2)
45 (3)
38 (4)

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 26 Question Id : 3944843563 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
(1) RUMNIQ
(2) RSMOIQ
(3) NUQTOP
(4) RUPIIS

RUMNIQ (1)
RSMOIQ (2)
NUQTOP (3)
RUPIIS (4)

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 27 Question Id: 3944843564 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
(1) 78
(2) 83
(3) 85
(4) 88

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 28 Question Id: 3944843565 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 29 Question Id : 3944843566 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
CAM : USE :: SAT : _____

(1) KTM
(2) JRN
(3) KSL
(4) LTR

KTM (1)
JRN (2)
KSL (3)
LTR (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 30 Question Id : 3944843567 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
(1) 1917
(2) 1918
(3) 1916
(4) 1919
(1) \( x^3 - 3x^2 + 3x - 1 = 0 \)
(2) \( x^3 - 3x^2 + 3x + 3 = 0 \)
(3) \( x^3 - 6x^2 + 12x - 8 = 0 \)
(4) \( x^3 + 6x^2 + 12x + 8 = 0 \)

\[ x^3 - 3x^2 + 3x - 1 = 0 \quad (1) \]
\[ x^3 - 3x^2 + 3x + 3 = 0 \quad (2) \]
\[ x^3 - 6x^2 + 12x - 8 = 0 \quad (3) \]
\[ x^3 + 6x^2 + 12x + 8 = 0 \quad (4) \]

Options:
1. \(\times\) 1
2. \(\checkmark\) 2
3. \(\times\) 3
4. \(\times\) 4

Question Number: 32 Question Id: 3944843569 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
(1) $\frac{15}{19}$
(2) $\frac{14}{19}$
(3) $\frac{11}{19}$
(4) $\frac{9}{19}$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 33 Question Id : 3944843570 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Note: 35 वाला गुलाब सेहपेक छोड़े।
Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 34  Question Id: 3944843571  Question Type: MCQ  Option Shuffling: No
Display Question Number: Yes  Is Question Mandatory: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0

 azt35535 nayat say odd thing
(1) Flute
(2) Violin
(3) Veena
(4) Mandolin

Options:
1. ✅ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 35 Question Id: 3944843572 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
(1) Fish
(2) Frog
(3) Turtle
(4) Aligator

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 4
Sub-Section Id: 394484361
Question Shuffling Allowed: Yes

Question Number: 36 Question Id: 3944843573 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

Note: 36 to 45 سوالات ایک ہی نامہ منتظم ہوگئے اس وقت کہ مینیوم ہندسی کے روپوں کا کارکردہ ہے.
(1) 578
(2) 742
(3) 916
(4) 1332

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ☑ 4

Question Number : 37 Question Id : 3944843574 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

45 36 36

\[
\begin{array}{ccc}
8 & 25 & 9 \\
\div & 12 & 5 \\
3 & 12 & 5 = 21.56
\end{array}
\]

(1) \frac{24}{18}

(2) \frac{49}{30}

(3) \frac{23}{18}

(4) \frac{25}{18}

Options:
1. \* 1
2. ✔ 2
3. ✔ 3
4. ✔ 4

Question Number: 38 Question Id: 3944843575 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

لہذا، 36 تا 45 سوالات ایک فہمی نمونہ رکھتی ہیں اسی سے پہلے اور مناسب جواب پہلے کہ کچھ ہے۔

100, 110, 1000, 1001, _____

(1) 1010
(2) 1100
(3) 1101
(4) 1110

100, 110, 1000, 1001, _____

1010 (1)
1100 (2)
1101 (3)
1110 (4)

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 39 Question Id: 3944843576 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

لاہٹ: 36 3 45 سوالات ایک ناائل ومن صورت کے بچے ایک سرگرم دیکھے جانے کے لئے مناسب گھاٹکیں کیے کرگرد़ ।

101, 103, ___, 109, 113, 127, 131

1. 111
2. 105
3. 103
4. 107

101, 103, ___, 109, 113, 127, 131

111 (1)
105 (2)
103 (3)
107 (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 40 Question Id: 3944843577 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

 لوئ: 36 45 سوالات ایک نافی خاک شوئ رکشے تین انجیئن کی کردا تحاریمن نیسیا کیسی چیٹک پہن کیسی کیک کرو..

225, 16, 169, 36, 121, 64, 81, ___

(1) 88
(2) 92
(3) 96
(4) 100

225, 16, 169, 36, 121, 64, 81, ___

88 (1)
92 (2)
96 (3)
100 (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 41 Question Id: 3944843578 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

10, 30, 150, ___, 11550, 150150

(1) 1050
(2) 10100
(3) 10350
(4) 10550

10, 30, 150, ___, 11550, 150150

1050 (1)
10100 (2)
10350 (3)
10550 (4)

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 42 Question Id: 3944843579 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

Loi: 36 45 سوالات آیک ناسس صوت رکانت کے سے ہیں دوگنا دوگنا مناسب گھواں پچ چان کو پکرو۔

\[ \frac{2}{3}, \frac{2}{5}, \frac{2}{11}, \frac{2}{17}, \frac{2}{29}, \quad \_ \_ \_ \_ \_ \]

(1) \( \frac{2}{43} \)

(2) \( \frac{2}{41} \)

(3) \( \frac{2}{57} \)

(4) \( \frac{2}{33} \)

\[ \_ \_ \_ \_ \_ \_ \frac{2}{3}, \frac{2}{5}, \frac{2}{11}, \frac{2}{17}, \frac{2}{29}, \quad \_ \_ \_ \_ \_ \]

\[ \frac{2}{43} \quad (1) \]

\[ \frac{2}{41} \quad (2) \]

\[ \frac{2}{57} \quad (3) \]

\[ \frac{2}{33} \quad (4) \]

Options:

1. 1
2. 2
3. 3
4. 4

Question Number: 43 Question Id: 3944843580 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

قوت: 36 45 سوالات إياك ناكم نسح ركزت فيها، فنصل وكامجوا مناسبة ناكولس ربة تكو نكرو.

CAUCHY, ___ IKIUDY, LPPDOL

(1) FECLSL
(2) FFBSTU
(3) FFBLSL
(4) FECLSL

CAUCHY, ___ IKIUDY, LPPDOL

FECLSL (1)
FFBSTU (2)
FFBLSL (3)
FECLSL (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 44 Question Id: 3944843581 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

45 سوالات، ایک نکست نمون رکتوش با دعی بنومن و جواب مناسب جوائی پچان کور چوک چوک.

aenoi, ______, iaen, euoia

(1) uoiae,
(2) uoiea
(3) uiocae
(4) uoeia

aenoi, ______, iaen, euoia

uoiae, (1)
uoiea (2)
uiociae (3)
ueia (4)

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 45 Question Id: 3944843582 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Note: Each of the questions from 36 to 45 follow a definite pattern, observe the same and fill in the blanks with suitable answers.

لوت: 36 3 45 سوالات ایک فاصلہ میں رکھیں ایک دو سے پانچ کی بلندی سے مناسب چھوٹے پہلوں کو پکڑ کر۔

0, 6, 24, 60, ___, 210

(1) 84
(2) 96
(3) 120
(4) 180

84 (1)
96 (2)
120 (3)
180 (4)

Options:
1. ✗ 1
2. ✗ 2
3. ☑ 3
4. ✗ 4

Sub-Section Number: 5
Sub-Section Id: 394484362
Question Shuffling Allowed: Yes

Question Id: 3944843583 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No Question Numbers: (46 to 48)
The following graph depicts the profits earned by a company through exports in the past six years. Based on this data, answer the questions 46, 47 and 48.

Sub questions

Question Number : 46 Question Id : 3944843584 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
The approximate yearly average of the profits through exports (in crores of rupees) is

1. 29
2. 32
3. 33
4. 34

Options:
1. ✔ 1
2. × 2
3. × 3
4. × 4

Question Number: 47 Question Id: 3944843585 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
In which year (2nd year to 6th year) the increase in the profits was maximum when compared to that of previous year?

(1) 5th year
(2) 4th year
(3) 3rd year
(4) 2nd year

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number: 48 Question Id: 3944843586 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
When compared to the first 3 years what is the increase percentage in the profits to the last three years?

(1) \(89 \frac{1}{6}\)  
(2) \(90 \frac{1}{3}\)  
(3) \(91 \frac{2}{3}\)  
(4) \(92 \frac{1}{6}\)

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Sub-Section Number: 6
Sub-Section Id: 394484363
Question Shuffling Allowed: Yes

Question Id: 3944843587 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No Question Numbers: (49 to 53)
The following Pie-chart shows the budget allocation of a company under different heads P, Q, R, S, T in one financial year. Based on the information given, answer the questions from 49-53.

<table>
<thead>
<tr>
<th></th>
<th>100°</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>100°</td>
</tr>
<tr>
<td>Q</td>
<td>85°</td>
</tr>
<tr>
<td>R</td>
<td>70°</td>
</tr>
<tr>
<td>S</td>
<td>60°</td>
</tr>
<tr>
<td>T</td>
<td>45°</td>
</tr>
</tbody>
</table>

Sub questions

Question Number : 49 Question Id : 3944843588 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
The amount allocated to ‘Q’ is what percent of total budget?

(1) \(22 \frac{7}{18}\)

(2) \(23 \frac{11}{18}\)

(3) \(22 \frac{13}{18}\)

(4) \(23 \frac{7}{18}\)

Options :
1. \(\star\) 1
2. \(\checkmark\) 2
3. \(\star\) 3
4. \(\star\) 4

Question Number : 50 Question Id : 3944843589 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
If the amount allocated to the head ‘S’ is Rs.18 lakhs, in an year, then the amount allocated to the head ‘P’ in that year (in rupees of lakhs) is

(1) 20
(2) 24
(3) 30
(4) 32

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 51 Question Id : 3944843590 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
The amount allocated to the head ‘R’ is Rs. 24 1/2 lakhs in a year, then the total budget in that year (in crores) is:

(1) 1.08
(2) 1.12
(3) 1.20
(4) 1.26

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 52 Question Id: 3945463591 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
If the total budget in an year is Rs.2.7 crores, then the difference between the allocations of heads S and T (in lakhs) is

(1) 12.5
(2) 12.25
(3) 11.5
(4) 11.25
The total amount allocated to heads ‘P’ and ‘S’, put together is what percent of the total amount allocated to the remaining heads?

(1) 75
(2) 78
(3) 80
(4) 90

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Sub-Section Number : 7
Sub-Section Id : 394484364
Question Shuffling Allowed : Yes

Question Id : 3944843593 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Numbers : (54 to 55)
Consider the following Venn diagram representing three sets $A, B, C$. Based on the information given, answer the questions 54 and 55.

A: Students of a school play Football
B: Students of the same school play Basketball
C: Students of the same school that play Cricket.

Sub questions

Question Number: 54 Question Id: 3944843594 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
The number of students who play Cricket and Football but not Basketball is

(1) 7
(2) 9
(3) 5
(4) 12

Options:
1. ✗ 1
2. ✔ 2
3. ✔ 3
4. ✗ 4

Question Number: 55 Question Id: 3944843595 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
The number of students who play either Football or Basketball is

(1) 63
(2) 70
(3) 68
(4) 75

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number: 8
Sub-Section Id: 394484365
Question Shuffling Allowed: Yes

Question Id: 3944843596 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No Question Numbers: (56 to 60)
English alphabets (26) are arranged along a circle. Then each vowel is coded to its next second vowel in clockwise direction while each consonant is coded to its next consonant in clockwise direction. For decoding the inverse process can be followed.

Using this coding procedure answer the questions 56-60.

Sub questions

Question Number : 56 Question Id : 3944843597 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Code word for LARGE is

(1) MISHU
(2) MISHO
(3) MISHA
(4) MISHE

MISHU (1)
MISHO (2)
MISHA (3)
MISHE (4)

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 57 Question Id : 3944843598 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Code word for SMALL is:

1. TNAOO
2. TMIOO
3. TNINN
4. TNIMM

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 58 Question Id: 3944843599 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Which word is coded as CITO?

(1) BATE
(2) BOSE
(3) BASE
(4) BESA

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 59  Question Id: 3944843600  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Is Question Mandatory: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0
Code word for QUARANTINE is

(1) REISIPVUPO
(2) REISIOVUPO
(3) REISIUVPO
(4) REISIRVUPO

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 60 Question Id: 3944843601 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Code word for CORONA VIRUS is

1. DASAPI WUSET
2. DASAPI WUSIT
3. DASAPI WUSIV
4. DASAPI WUSIW

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 9
Sub-Section Id: 394484366
Question Shuffling Allowed: Yes

Question Number: 61 Question Id: 3944843602 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
In a certain code, CALIFORNIA is coded as GWPEJKVJMWB. The code word for ANDHRA is

(1) EHVJTDW  
(2) EJDHVW  
(3) EJHDVW  
(4) AHJVDW

Options:
1. ☑️ 1  
2. ☑️ 2  
3. ✔️ 3  
4. ★ 4

Question Number: 62 Question Id: 3944843603 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
If 18907 is coded as BIJAH then the code for 25836 is

(1) FJKLM
(2) CFIDG
(3) DCGHI
(4) EHJVDW

Options:
1. ★ 1
2. ✔ 2
3. ★ 3
4. ★ 4

Question Number : 63 Question Id : 3944843604 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
If TRIGONOMETRY is coded as UTLKTTVUNDCK, then TRIANGLE will be coded as:

1. UTLSESMN
2. UTLESSMN
3. UTLSESMN
4. UTLESMSM

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 64 Question Id: 3944843605 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
If BLACK is coded as 2515262416, then RED is coded as

(1) 092223
(2) 082122
(3) 072021
(4) 092122

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 65 Question Id : 3944843606 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
If `HIGH` is coded as 08090708, then ‘DARE’ is coded as

1. 04011805
2. 04011705
3. 04011605
4. 04011505

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 10
Sub-Section Id: 394484367
Question Shuffling Allowed: Yes

Question Number: 66 Question Id: 3944843607 Question Type: Multiple Choice Question Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Date, Time & Arrangement Problems:

تاريخ وقت امور النظام من سائلات
In a certain leap year the first day of the year was Sunday. On what day was the 2\textsuperscript{nd} of March in that year?

(1) Thursday
(2) Friday
(3) Saturday
(4) Sunday
The angle between minutes hand and hours hand in wall clock (in radians) at 9.56 am is

1. \( \frac{19\pi}{90} \)
2. \( \frac{\pi}{5} \)
3. \( \frac{\pi}{4} \)
4. \( \frac{17\pi}{90} \)

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 68 Question Id: 3944843609 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Date, Time & Arrangement Problems

تاريخ، وقت اور انتظامات سے متعلق سوالات
A clock gains time uniformly. It was observed to be 2 minutes slow at 12.00 pm on Monday and was 4 minutes 48 seconds fast at 2.00 pm on the next Monday. When did the watch show the correct time?

(1) Friday
(2) Thursday
(3) Wednesday
(4) Tuesday

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 69 Question Id: 3944843610 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Date, Time & Arrangement Problems:

تاريخ و وقت اواخر الاقامة سے مختلف سوالات
A is B's sister, C is B's mother, D is C's father and E is D's mother, then how is A related to D?

(1) Grand father
(2) Grand mother
(3) Daughter
(4) Grand daughter
Mr. A left home for the bus stop 25 minutes earlier than usual. It takes 15 minutes for A to reach the bus stop. A reaches bus stop at 8.30 am. What time does A usually leave house for the bus stop?

(1) 9.00 am
(2) 8.50 am
(3) 8.40 am
(4) 8.35 am

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 71 Question Id : 3944843612 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Mr A came 34 minutes before the time at which a board meeting is scheduled. Mr B arrives to the meeting 25 minutes later than Mr C who arrived 7 minutes before the scheduled time of that board meeting. If B arrived at 11.03 am, then the time of arrival of Mr A is

(1) 10.11 am
(2) 10.45 am
(3) 10.38 am
(4) 11.03 am

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 72 Question Id: 3944843613 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
A church bell rings at regular intervals of 50 minutes. It rang at 7.00 am after that there was a technical problem with the bell and it was rectified at 8.45 am. When will the bell ring between 10 am and 11 am?

(1) 10.20 am  
(2) 10.30 am  
(3) 10.50 am  
(4) 10.40 am

Options:
1️⃣ ✔️ 1  
2️⃣ 🔴 2  
3️⃣ 🔴 3  
4️⃣ 4
For $\frac{a}{b} < 1$, define $a \ast b = \frac{a}{b} + \frac{a^2}{b^2} + \frac{a^3}{b^3} + \ldots$ then $4 \ast 6 = $

(1) $\frac{1}{2}$

(2) $\frac{2}{3}$

(3) 1

(4) $\frac{6}{5}$

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 74 Question Id : 3944843615 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
If \( x \Delta y = |x - y + x + y| - (x + y) \) for \( x, y \in \mathbb{R} \), then \( \frac{-3}{2} \Delta \frac{1}{2} = \)

(1) 1  
(2) \(-\frac{1}{2}\)  
(3) \(\frac{1}{2}\)  
(4) \(\frac{1}{4}\)

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
If \( \alpha, \beta, \gamma \) and \( \delta \) denote the arithmetical operations +, -, \( \times \) and \( \div \) respectively then

\[
[(10 \quad \gamma \quad 4) \quad \alpha \quad (4\gamma4)\beta6] \quad \delta \quad (50) =
\]

(1) 4
(2) 3
(3) 2
(4) 1

Options :
1. \( \times \) 1
2. \( \times \) 2
3. \( \times \) 3
4. \( \checkmark \) 4

---

**Mathematical Ability**

Section Id : 39448453
Section Number : 2
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 75
Number of Questions to be attempted : 75
Section Marks : 75
Mark As Answered Required? : Yes
Sub-Section Number : 1
Arithmetical Ability

\[ 3 \left\{ \frac{1}{1-x^2} \right\}^{-1} \left\{ \frac{1}{1-x^2} \right\}^{-1} \]

(1) 1
(2) x
(3) \frac{1}{x}
(4) \sqrt{x}

\[ 3 \left\{ \frac{1}{1-x^2} \right\}^{-1} \left\{ \frac{1}{1-x^2} \right\}^{-1} \]

1 (1)
(2)
(3)
(4)

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.
Arithmetical Ability

If \( \frac{(2^{n+1})^m (2^{2n}) (2^n)}{(2^{m+1})^n (2^{2m})} = 1 \), then \( m = \)

1. \( \frac{n}{2} \)  
2. \( n \)  
3. \( 2n \)  
4. \( n^2 \)

If \( \frac{(2^{n+1})^m (2^{2n}) (2^n)}{(2^{m+1})^n (2^{2m})} = 1 \), then \( m = \)

\[ m = \frac{n}{2} \]

1. \( \frac{n}{2} \)  
2. \( n \)  
3. \( 2n \)  
4. \( n^2 \)

Options:
1. ✗ 1  
2. ✗ 2  
3. ✔ 3  
4. ✗ 4

Question Number : 78 Question Id : 3944843619 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

حسابي قابلیت
If $a : b = 3 : 7$ and $b : c = 5 : 4$, then $2a : 3b : 4c =$

(1) $6 : 21 : 16$

(2) $15 : 35 : 28$

(3) $30 : 105 : 112$

(4) $30 : 70 : 81$

If $a : b = 3 : 7$ and $b : c = 5 : 4$, then $2a : 3b : 4c =$

$2a : 3b : 4c = \frac{a}{b} = 3 : 7$ and $b : c = 5 : 4$. Therefore,

$6 : 21 : 16$ (1)

$15 : 35 : 28$ (2)

$30 : 105 : 112$ (3)

$30 : 70 : 81$ (4)

Options:
1. ※ 1
2. ※ 2
3. ✔️ 3
4. ※ 4
Four men can do as much work as eight women, and three women can do as much work as four children. If twenty-four women finish a work in 52 days, in how many days, will the same work be finished by 8 men, 4 women and 8 children?

(1) 48  
(2) 38  
(3) 50  
(4) 40

Options:
1. ✔️ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 80 Question Id : 3944843621 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability  
حسابی قابلیت
\[
\frac{2}{\sqrt{10} + 2\sqrt{21}} - \frac{1}{\sqrt{12} - 2\sqrt{35}} + \frac{1}{\sqrt{8} - 2\sqrt{15}}
\]

(1) \( \sqrt{7} \)

(2) \( \sqrt{5} \)

(3) \( \sqrt{3} \)

(4) 0

Options:
1. 1
2. 2
3. 3
4. 4

Question Number : 81 Question Id : 3944843622 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

حسيات تطبيقات
If \( x = 17 + 12\sqrt{2} \) then \( x^2 + \frac{1}{x^2} = \)

(1) \( 289 + 24\sqrt{2} \)
(2) \( 287 \)
(3) \( 34 + 24\sqrt{2} \)
(4) \( 1154 \)

\[
x = 17 + 12\sqrt{2} \text{ then } x^2 + \frac{1}{x^2} = \int
\]

\[
289 + 24\sqrt{2} \quad (1)
287 \quad (2)
34 + 24\sqrt{2} \quad (3)
1154 \quad (4)
\]

Options:
1. ☑ 1
2. ☑ 2
3. ☑ 3
4. ☑ 4

Question Number: 82 Question Id: 3944843623 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
The number of divisors of 2160 which is of the form 3k, where k is a positive integer is

(1) 10
(2) 20
(3) 30
(4) 40

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 83 Question Id: 3944843624 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
The remainder when $5! + 6! + 7! + \cdots + 100!$ is divided by 35 is ___

(1) 0
(2) 1
(3) 2
(4) 3

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Arithmetical Ability

Question Number: 84 Question Id: 3944843625 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
The LCM and GCD of two numbers are 4641 and 21 respectively. If one is greater than 300, then find the other number.

(1) 273
(2) 283
(3) 293
(4) 299

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 85 Question Id: 3944843626 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
If the GCD of two positive integers \( m, n \) is 5, then the GCD of \( 201m \) and \( 2697n \) is

(1) 5  
(2) 10  
(3) 15  
(4) 20
\[
5 + \frac{1}{6 + \frac{3}{8 + \frac{1}{10}}} =
\]

(1) \(5 \frac{18}{496}\)

(2) \(5 \frac{81}{496}\)

(3) \(5 \frac{118}{496}\)

(4) \(5 \frac{169}{496}\)

\[
5 + \frac{1}{6 + \frac{1}{8 + \frac{1}{10}}} =
\]

\[
5 \frac{18}{496} \quad (1)
\]

\[
5 \frac{81}{496} \quad (2)
\]

\[
5 \frac{118}{496} \quad (3)
\]

\[
5 \frac{169}{496} \quad (4)
\]

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number: 87 Question Id: 3944843628 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability

حساني كتابة
(11 ÷ 2½) ÷ 11 5 of ÷ 5 1 2 - 3 1 2 =

(1) 3
(2) 5
(3) 9 2
(4) 9

(11 ÷ 2½) ÷ 11 5 of ÷ 5 1 2 - 3 1 2 =

3 11 (1)
5 (2)
9 2 (3)
9 (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 88 Question Id : 3944843629 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

حاسبي قابلية
The ascending order of the following fractions

\[ a = \frac{1}{2}; \quad b = \frac{2}{9}; \quad c = \frac{7}{13}; \quad d = \frac{13}{18} \]

is

1. b, a, c, d
2. c, d, a, b
3. d, c, b, a
4. a, b, c, d

**Options:**

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

**Question Number:** 89  **Question Id:** 3944843630  **Question Type:** MCQ Option Shuffling: No Display Question Number: Yes  **Is Question Mandatory:** No  **Option Orientation:** Vertical  **Correct Marks:** 1  **Wrong Marks:** 0

**Arithmetical Ability**

حساب قابلیت
If \( a \leq b \leq c \leq d \leq e \leq a \) and \( e = 39 \), then possible value of \( c \) is

(1) 29
(2) 39
(3) 49
(4) 59
In a mixture of 450 kg of two food grains A and B, A is 15%. How much quantity of B (in kg) is to be added to this mixture so that A will be 5% in the resulting quantity?

(1) 540  
(2) 600  
(3) 860  
(4) 900

Options:
1. ☒ 1  
2. ☒ 2  
3. ☒ 3  
4. ☒ 4

Question Number: 91  Question Id: 3944843632  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Is Question Mandatory: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0

Arithmetical Ability

حل تمثيلي
If 25% of 640 is 11 less than \( x \)% of 15, then \( x = \)

- (1) 57
- (2) 114
- (3) 1140
- (4) 570

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 92 Question Id: 3944843633 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability

حسابي كابليت
If the cost price of 20 articles is equal to the sale price of 16 articles, then the profit percentage is

(1) \( \frac{25}{1} \)

(2) \( 27\frac{1}{2} \)

(3) 30

(4) \( 32\frac{1}{3} \)

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Estimated Question Type: Arithmetic Ability

Correct Option: 1
The marked price of article A is Rs. 1200 more than its cost price. When a discount of Rs. 300 is allowed, a profit of 20% is earned. To earn a profit of 25%, the price at which the article A should be sold is (in Rupees).

(1) 5120
(2) 5400
(3) 5625
(4) 6200

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 94  Question Id: 3944843635  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Is Question Mandatory: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0

Arithmetical Ability
A, B, C started a partnership business where A invests 3 times as much as B and B invests \( \frac{2}{3} \) of what C invests. The ratio of their profits at the end of the year is

1. 2 : 3 : 6
2. 3 : 2 : 4
3. 6 : 2 : 3
4. 6 : 1 : 2

Options:
1. ☑ 1
2. ☑ 2
3. ☑ 3
4. ☑ 4

Question Number : 95 Question Id : 3944843636 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

حسابيات
In a partnership business with A, B, C as partners, the capital of A is $\frac{3}{4}$ of the capital of B + C and capital of B is $\frac{1}{3}$ of the capital of C + A. The ratio of the annual share of their profits is

(1) 5 : 8 : 11
(2) 7 : 10 : 11
(3) 11 : 9 : 8
(4) 12 : 7 : 9

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 96 Question Id: 3944843637 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
A tank has two taps A and B. The taps A and B can empty a full tank in 6 hours and 8 hours respectively. Both are opened at the same instant and after 2 hours, B is closed. The total time taken to fill the empty tank (in hours) is

1. \( \frac{2}{2} \)
2. 3
3. \( \frac{3}{2} \)
4. \( \frac{4}{2} \)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 97 Question Id: 3944843638 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
A pipe can fill a tank in 16 minutes and a second one fill it in 24 minutes. A third pipe can empty that full tank in 8 minutes. The first two pipes are kept open for 4 minutes in the beginning and then the third pipe is opened. Then the time in which the tank will be emptied after all the three pipes started working simultaneously (in minutes)?

(1) 20
(2) 24
(3) 28
(4) 32
Arithmetical Ability

Initially Mandeep is at place X and Sandeep is at place Y and these two places are separated by a distance of 825 kms. Mandeep started his journey at 35 kmph for 3 hours earlier than Sandeep to meet each other. If the speed of Sandeep is 45 kmph and they met at place Z between X and Y; the distance between Y and Z (in kms) is

(1) 505
(2) 460
(3) 435
(4) 405
Arithmetical Ability

A person walking at a speed of 10 kmph stops and rests for 2 minutes after every kilometer. How much time will he take to cover 6 kms?

(1) 55 minutes
(2) 50 minutes 36 seconds
(3) 46 minutes
(4) 35 minutes 36 seconds
35 persons can plant 1500 trees in 7 hours. In how many hours 45 persons can plant 2500 trees?

(1) 15  
(2) 12  
(3) 8  
(4) 10
Two persons A and B undertook to do a piece of work for Rs.6534. A alone can do it in 12 days and B alone can do it in 18 days. If they finished that with the help of C in 6 days, then the share of C in that work is (in rupees)

(1) 1484
(2) 1268
(3) 1089
(4) 936

Options:
1. **1**
2. **2**
3. ✔️ 3
4. **4**

Arithmetical Ability
The area of a rhombus if its perimeter is 40 cm and one of its diagonals is 16 cm (in sq.cm) is

(1) 84
(2) 90
(3) 92
(4) 96

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 103 Question Id : 3944843644 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
Around a circular field of radius 5 meters, there is a path of 2 meters wide. Then the area of the path (in sq. m) is

(1) $12\pi$
(2) $15\pi$
(3) $18\pi$
(4) $24\pi$

Options:
1. ☑️ 1
2. ☑️ 2
3. ☑️ 3
4. ☑️ 4

Question Number: 104 Question Id: 3944843645 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
Two metallic right circular cones with same base with the radius 2.1 cm, and height 4.1 cm and 4.3 cm, have been melted and recast into a sphere. The surface area (in sq.cm) of that sphere is

(1) 49.82
(2) 51.64
(3) 55.44
(4) 56.84

Options :
1. ✖️ 1
2. ✖️ 2
3. ✓ 3
4. ✖️ 4
The ratio of the curved surface area and the total surface area of a right circular cylinder is 1 : 2. If its total surface area is 616 sq.cm., then the volume (in cm³) of that cylinder is

(1) 1240
(2) 1078
(3) 1028
(4) 976

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 106 Question Id : 3944843647 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

سالی قابلیت
If four circular plates of radius 5 cm are placed such that each plate touches two
other. Then the area of the hollow space between them, in cm$^2$, is \( \text{(take } \pi = \frac{22}{7} \text{)} \)

(1) 21.43
(2) 78.57
(3) 39.28
(4) 60.7

Options:
1. ✔ 1
2. 2
3. 3
4. 4

Question Number : 107 Question Id : 3944843648 Question Type : MCQ Option Shuffling : No Display Question
Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

حسابيات
A window is in the shape of a rectangle and mounted by a semi circle. If the length of the rectangle is 150 cm and the breadth of the rectangle on which the semi circular part stands is 70 cm. Then the area of the window, in sq.cm. is (take $\pi = \frac{22}{7}$)

(1) 10,500
(2) 14,350
(3) 12,425
(4) 18,200

Options:
1. ✖️ 1
2. ✖️ 2
3. ✔️ 3
4. ✖️ 4

Question Number : 108 Question Id : 3944843649 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
A cylindrical vessel of radius 10 cm contains water up to a depth of 25 cm. A spherical iron ball is dropped into the vessel and the level of water is raised by 45 cm. The radius of the iron ball (in cms) is

(1) 12
(2) 15
(3) 16
(4) 18

Options:
1. 1
2. 2
3. 3
4. 4

Question Number: 109 Question Id: 3944843650 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0

Arithmetical Ability
(102)_3 + (103)_4 =

(1) (11100)_2
(2) (11110)_2
(3) (10110)_2
(4) (11001)_2

(102)_3 + (103)_4 =

(11100)_2 (1)
(11110)_2 (2)
(10110)_2 (3)
(11001)_2 (4)

Options :
1. ※ 1
2. ✔ 2
3. ※ 3
4. ※ 4

Question Number : 110 Question Id : 3944843651 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

حسابي قابلية
Let $m \in \mathbb{Z}$ be such that $m = 29 \pmod{72}$. If $m = r \pmod{12}$ and $0 \leq r < 12$, then \[
\frac{r!}{12} =
\]

(1) 5
(2) \(\frac{1}{2}\)
(3) 10
(4) \(\frac{5}{12}\)

\[0 \leq r < 12 \quad \text{and} \quad m = 29 \pmod{72}, \quad \frac{r!}{12} = \frac{r}{m = r \pmod{12}}
\]

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Sub-Section Number: 2
Sub-Section Id: 394484369
Question Shuffling Allowed: Yes

Question Number: 111 Question Id: 3944843652 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Algebraic and Geometrical Ability
Which one of the following implications is false?

(1) if \(3 + 2 = 5\) then \(1 \times 0 = 0\)

(2) if \(3 \times 6 = 20\) then \(2 + 7 = 9\)

(3) if \(5 \times 7 = 30\), then \(2 + 1 = 2\)

(4) if \(6 \times 7 = 42\) then \(6 + 2 = 4\)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
The inverse of the statement \((p \land q) \rightarrow (q \land r)\)

(1) \(p \land (q \rightarrow r)\)
(2) \(r \land (p \rightarrow q)\)
(3) \(q \land (r \rightarrow p)\)
(4) \(r \land (q \rightarrow p)\)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 113 Question Id : 3944843654 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
Let \( N \) denote the set of natural numbers. Define

\[
A = \{ x \mid x = 4n, \ n \in \mathbb{N} \} \quad \text{and} \quad B = \{ x \mid x = 6n, \ n \in \mathbb{N} \}
\]

then \( A \cap B = \)

(1) \( \{ x \mid x = 24n, \ n \in \mathbb{N} \} \)

(2) \( \{ x \mid x = 12n; \ n \in \mathbb{N} \} \)

(3) \( \{ x \mid x = 2n; \ n \in \mathbb{N} \} \)

(4) The empty set

\[
A \cap B = \text{lcm}(4, 6)A = \{ x \mid x = 4n, \ n \in \mathbb{N} \}
\]

\[
B = \{ x \mid x = 6n, \ n \in \mathbb{N} \}
\]

\[
\{ x \mid x = 24n, \ n \in \mathbb{N} \} \quad (1)
\]

\[
\{ x \mid x = 12n; \ n \in \mathbb{N} \} \quad (2)
\]

\[
\{ x \mid x = 2n; \ n \in \mathbb{N} \} \quad (3)
\]

(4) The empty set

Options:
1. ☑ 1
2. ☑ 2
3. ☑ 3
4. ☑ 4

Question Number : 114 Question Id : 3944843655 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
If \( A = \{p, q, r, s\} \) then a relation on \( A \), which is not transitive among the following?

\[
\begin{array}{l}
(1) \theta_1 = \{(p, q), (q, s), (p, s)\} \\
(2) \theta_2 = \{(p, p), (q, q), (r, r)\} \\
(3) \theta_3 = \{(p, q), (q, p), (p, p)\} \\
(4) \theta_4 = \{(p, q), (r, s)\}
\end{array}
\]

**Options:**
1. ★ 1
2. ★ 2
3. ✔ 3
4. ★ 4

**Question Number : 115**  
**Question Id : 3944843656**  
**Question Type : MCQ**  
**Shuffling : No**  
**Display Question Number : Yes**  
**Is Question Mandatory : No**  
**Orientation : Vertical**  
**Correct Marks : 1**  
**Wrong Marks : 0**

Algebraic and Geometrical Ability
If a set \( A \) has 6 elements, then the number of reflexive relations on \( A \) that are not symmetric is

\[
(1) \ 2^{36} - 2^6 \\
(2) \ 2^{30} - 2^{15} \\
(3) \ 2^{30} - 2^{21} \\
(4) \ 2^{21}
\]
The equation of a line passing through the points (2, 5) and (4, 7) is:

(1) $2x - 3y - 7 = 0$
(2) $3x + 2y + 7 = 0$
(3) $x - y + 3 = 0$
(4) $x + y + 3 = 0$

Options:

1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 117 Question Id: 3944843658 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0

Algebraic and Geometrical Ability
An equation of a line passing through (4, 3) and making intercepts on coordinate axes whose sum is equal to -1 is

(1) $x - y - 1 = 0$
(2) $x + 3y - 13 = 0$
(3) $2x - y - 5 = 0$
(4) $x - 2y + 2 = 0$

An equation of a line passing through (4, 3) and making intercepts on coordinate axes whose sum is equal to -1 is

$x - y - 1 = 0$ (1)
$x + 3y - 13 = 0$ (2)
$2x - y - 5 = 0$ (3)
$x - 2y + 2 = 0$ (4)

Options:
1. ☑ 1
2. ☑ 2
3. ☑ 3
4. ☑ 4

Question Number: 118 Question Id: 3944843659 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0

Algebraic and Geometrical Ability
\[ \sec \theta + \tan \theta = \]

\begin{align*}
1. & \quad \cos \theta + \sin \theta \\
2. & \quad \frac{1}{\sec \theta - \tan \theta} \\
3. & \quad \frac{1}{\sec \theta + \tan \theta} \\
4. & \quad \cos \theta - \sin \theta
\end{align*}

Options:

1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✔ 4

Question Number: 119 Question Id: 3944843660 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Algebraic and Geometrical Ability
\[
\sin 12^0 \sin 24^0 \sin 48^0 \sin 84^0 =
\]

(1) \( \frac{1}{16} \)  

(2) \( \frac{2}{15} \)  

(3) \( \frac{3}{15} \)  

(4) \( \frac{5}{16} \)  

\[
\sin 12^0 \sin 24^0 \sin 48^0 \sin 84^0 =
\]

\( \frac{1}{16} \) (1)  

\( \frac{2}{15} \) (2)  

\( \frac{3}{15} \) (3)  

\( \frac{5}{16} \) (4)  

Options:

1. ✔ 1  
2. ✗ 2  
3. ✗ 3  
4. ✗ 4  

Question Number : 120  Question Id : 3944843661  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0  

Algebraic and Geometrical Ability
If $A + C = B$, then $\tan A, \tan B, \tan C =$

(1) $\tan A - \tan B - \tan C$
(2) $\tan B - \tan C - \tan A$
(3) $\tan C - \tan A - \tan B$
(4) $\tan A + \tan B + \tan C$

$A + C = B$, then $\tan A, \tan B, \tan C =$

$\tan A - \tan B - \tan C$ (1)
$\tan B - \tan C - \tan A$ (2)
$\tan C - \tan A - \tan B$ (3)
$\tan A + \tan B + \tan C$ (4)

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 121 Question Id: 3944843662 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Algebraic and Geometrical Ability
A straight high way leads to the foot of a tower. Anil standing at the top of the tower observes a car at an angle of depression $30^0$. Six seconds later, the angle of depression of the car is found to be $60^0$. If the car is approaching the foot of tower with a uniform speed, the time taken by the car to reach the foot of that tower from this, the later point (in seconds) is

(1) 2  
(2) 3  
(3) $3\frac{1}{2}$  
(4) 4

Options:
1. ✗ 1  
2. ☑ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 122 Question Id : 3944843663 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0
If \( a + b + c = 15 \) and \( a^2 + b^2 + c^2 = 77 \) then \( ab + bc + ca = \)

(1) 85  
(2) 81  
(3) 72  
(4) 74

\[
ab + bc + ca = \text{ if } a + b + c = 15 \quad \text{ and } a^2 + b^2 + c^2 = 77
\]

85 (1)  
81 (2)  
72 (3)  
74 (4)

Options:  
1. ✗ 1  
2. ✗ 2  
3. ✗ 3  
4. ✔ 4

Question Number : 123 Question Id : 3944843664 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0
If \( x^4 + 6x^3 + ax^2 + 12x + b \) is a perfect square, then \( 3a - 2b = \)

(1) 47
(2) 19
(3) 31
(4) 28
If the remainder when a certain integer $x$ is divided by 5 is 2, then each one of the following could also be an integer, except

(1) $\frac{x}{11}$
(2) $\frac{x}{10}$
(3) $\frac{x}{6}$
(4) $\frac{x}{3}$

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 125 Question Id : 3944843666 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
The remainder if \( 73 \times 74 \times 75 \times 76 \) is divided by 14 is:

1. 13
2. 12
3. 10
4. 9

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 126  Question Id: 3944843667  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Is Question Mandatory: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0

Algebraic and Geometrical Ability
If \( \frac{4}{x+y} + \frac{3}{x-y} = 2, \quad \frac{8}{x+y} - \frac{1}{x-y} = \frac{1}{2} \), then \((x, y) =\)

(1) (-5, -3)

(2) (-3, -5)

(3) (3, 5)

(4) (5, 3)

\[
-\frac{8}{x+y}(x, y) = \frac{4}{x+y} + \frac{3}{x-y} = 2, \quad \frac{8}{x+y} - \frac{1}{x-y} = \frac{1}{2}
\]

(-5, -3) (1)

(-3, -5) (2)

(3, 5) (3)

(5, 3) (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 127 Question Id : 3944843668 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
If the difference of $\frac{7}{12}$ th of a positive integer and $\frac{8}{15}$ of the same positive integer is 6, then the number of distinct primes that divide that positive integer is

(1) 1
(2) 2
(3) 3
(4) 4

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 128 Question Id : 3944843669 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
The sum of the infinite G.P. is
\[
5, \frac{20}{7}, \frac{80}{49}, \frac{320}{343}, \ldots
\]

(1) \(\frac{25}{3}\)
(2) \(\frac{35}{3}\)
(3) \(\frac{100}{7}\)
(4) \(\frac{113}{7}\)

Options:
1. ⬜️ 1
2. ✔️ 2
3. ☒️ 3
4. ☑️ 4

Question Number : 129 Question Id : 3944843670 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
The sum to infinite terms of a G.P. is 15 and the sum of their squares is 150. If $r$ is the common ratio of the G.P., then $100r^2=$

(1) 4
(2) 8
(3) 12
(4) 16

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 130 Question Id : 3944843671 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
The numerically greatest term in the expansion of \((2x - 3y)^{12}\),
when \(x = 1, y = \frac{5}{3}\) is

(1) 8
(2) 9
(3) 10
(4) 11

Options :
1. \(\heartsuit\) 1
2. \(\checkmark\) 2
3. \(\checkmark\) 3
4. \(\heartsuit\) 4

Question Number : 131 Question Id : 3944843672 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
The term independent of $x$ in the expansion of \((3x^3 - \frac{1}{2x^4})^7\)

(1) No term is independent of $x$

(2) 5th term

(3) 4th term

(4) 3rd term

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 132 Question Id : 3944843673 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
A square matrix $A$ is called an orthogonal matrix if $A$ satisfies

1. $A^T = A$
2. $A^T = -A$
3. $A^T = A^{-1}$
4. $A^T = A^2$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 133 Question Id: 3944843674 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Algebraic and Geometrical Ability
A is a $3 \times 3$ matrix and $B$ is its adjoint matrix. If the determinant of $B$ is $64$, then the determinant of $A$ is

(1) $4$
(2) $\pm 4$
(3) $8$
(4) $\pm 8$

$64$ is the determinant of the adjoint matrix $B$. Since $B$ is the adjoint of $A$, we have $\det(A) = (\det(B))^2$. Therefore, we have

$\det(A) = (64)^2 = 4096$

So, the correct answer is $8$. 

**Options:**

1. $\star 1$
2. $\star 2$
3. $\star 3$
4. $\checkmark 4$
\[
\lim_{x \to \infty} (\sqrt{x^2 + x + 1} - \sqrt{x^2 + 1}) =
\]

(1) \(\infty\)

(2) \(-1\)

(3) \(\frac{1}{2}\)

(4) \(1\)

\[
\lim_{x \to \infty} (\sqrt{x^2 + x + 1} - \sqrt{x^2 + 1}) =
\]

\(\infty\) (1)

-1 (2)

\(\frac{1}{2}\) (3)

1 (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 135 Question Id : 3944843676 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
If \( 3x^2 + 2xy + y^2 = 6 \), then \( \frac{dy}{dx} \) at \((-1, 2)\) is

(1) 0
(2) \( \frac{1}{2} \)
(3) 1
(4) \( \frac{3}{2} \)

\[
\frac{dy}{dx} = 6x + 2y \cdot \frac{dy}{dx} = 3x^2 + 2xy + y^2
\]

at \((-1, 2)\)

(1) 0
(2) \( \frac{1}{2} \)
(3) 1
(4) \( \frac{3}{2} \)

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 136 Question Id : 3944843677 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
A right angled triangle is to be constructed such that the sum of lengths of perpendicular sides cannot be greater than 24 cm and the area is to be maximum.

Then the length of hypotenuse (in cm) is

(1) 36  
(2) 18  
(3) \(18\sqrt{2}\)  
(4) \(12\sqrt{2}\)

Options:
1. 1
2. 2
3. 3
4. 4

Question Number : 137  Question Id : 3944843678  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Is Question Mandatory : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

Algebraic and Geometrical Ability
The diagonals of a trapezium PQRS intersect at the point A. If the ratio \( PA : PR \) is 3 : 7, then the ratio of lengths of its parallel sides is

(1) 3 : 7  
(2) 4 : 7  
(3) 3 : 4  
(4) 2 : 7

Options:
1. ✗ 1  
2. ✗ 2  
3. ✔ 3  
4. ✗ 4

Question Number : 138 Question Id : 3944843679 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
Two circles have radii 13 cm and 29 cm, and the distance between their centres is 15 cm, then the number of common tangents that can be drawn to the two circles is

(1) 0
(2) 1
(3) 2
(4) 4
If the points A(3, 2), B(-3, 2) and C(0, h) form the vertices of an equilateral triangle, then one value of h is

A (3, 2); B (-3, 2) C (0, h) \(3 - 2\sqrt{3}\)

(1) \(3 - 3\sqrt{3}\)
(2) \(2 - 3\sqrt{3}\)
(3) \(3\sqrt{3}\)
(4) \(2\sqrt{3}\)

Options:
1. ★ 1
2. ✔ 2
3. ★ 3
4. ★ 4

Question Number : 140 Question Id : 3944843681 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
The distance of point \((a, b)\) to the line \(\alpha x + \beta y + \gamma = 0\) is

\[
(1) \quad \frac{a+b}{\sqrt{\alpha^2 + \beta^2}}
\]

\[
(2) \quad \frac{a+\beta}{\sqrt{\alpha^2 + \beta^2}}
\]

\[
(3) \quad \frac{a\alpha + b\beta + \gamma}{\sqrt{\alpha^2 + \beta^2}}
\]

\[
(4) \quad \frac{a\alpha + b\beta + \gamma}{\sqrt{\alpha^2 + \beta^2}}
\]
The mean of the following frequency distribution is

<table>
<thead>
<tr>
<th>Class</th>
<th>0-4</th>
<th>4-8</th>
<th>8-12</th>
<th>12-16</th>
<th>16-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

(1) 6
(2) 8
(3) 10
(4) 12

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 142 Question Id: 3944843683 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Statistical Ability

Which one of the following is NOT true?

(1) Mode is not affected by change of origin and scale.

(2) Mean is affected by change of origin and scale.

(3) Median is affected by change of origin and scale.

(4) Standard deviation is not affected by change of origin and scale.

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 143 Question Id : 3944843684 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
If the mean and Mode of a data are 97 and 100 respectively, then the Median is

(1) 97
(2) 98
(3) 99
(4) 101
The variance of 147, 149, 151, 153, ..., 183 is

(1) 120
(2) 90
(3) 60
(4) 30

147, 149, 151, 153, ..., 183 variance 120 (1)
60 (3)
90 (2)
30 (4)

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Statistical Ability
The standard deviation of three consecutive integers is

\[ \begin{align*}
(1) & \quad \sqrt{3} \\
(2) & \quad \frac{\sqrt{3}}{2} \\
(3) & \quad \frac{\sqrt{2}}{3} \\
(4) & \quad \sqrt{2}
\end{align*} \]

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Statistical Ability
The rank correlation for the following data is

<table>
<thead>
<tr>
<th>X</th>
<th>2</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>18</td>
<td>12</td>
<td>10</td>
<td>8</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

(1) -1
(2) 0.96
(3) 0.93
(4) 1
If A and B are events with $P(A) = 0.5$, $P(B) = 0.4$ and $P(A \cap B) = 0.3$, then the probability that neither A nor B occurs is

(1) 0.4  
(2) 0.6  
(3) 0.5  
(4) 0.3

If A and B are events with $P(A) = 0.5$, $P(B) = 0.4$ and $P(A \cap B) = 0.3$, then the probability that neither A nor B occurs is

0.4 (1)  
0.6 (2)  
0.5 (3)  
0.3 (4)

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 148 Question Id : 3944843689 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

شماری این تمایل
A problem in statistics is given to three students A, B and C whose chances of solving it independently are \( \frac{1}{2} \), \( \frac{1}{3} \) and \( \frac{1}{4} \) respectively. The probability that exactly one of them is able to solve that problem is

\[
(1) \frac{11}{24} \\
(2) \frac{9}{24} \\
(3) \frac{7}{24} \\
(4) \frac{1}{4}
\]

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 149 Question Id : 3944843690 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Statistical Ability
In a simultaneous throw of two dice, the probability of getting a total of 10 or 11 is

(1) \(\frac{1}{4}\)
(2) \(\frac{5}{36}\)
(3) \(\frac{7}{12}\)
(4) \(\frac{1}{36}\)
If the letters of the word MINISTER are permuted at random, then the probability that all three vowels come together is:

\[
(1) \quad \frac{3}{56} \\
(2) \quad \frac{3}{28} \\
(3) \quad \frac{3}{14} \\
(4) \quad \frac{3}{7}
\]

Options:
1. Ⓢ 1
2. Ⓢ 2
3. Ⓢ 3
4. Ⓢ 4

Communication Ability

Section Id : 39448454
Section Number : 3
Section type : Online
Mandatory or Optional : Mandatory
Number of Questions : 38
Number of Questions to be attempted : 38
Section Marks : 50
Mark As Answered Required? : Yes
Sub-Section Number : 1
Sub-Section Id : 394484371
Question Shuffling Allowed : Yes
importune

1. Urge
2. Poor
3. Indecisive
4. Important

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Mercurial

1. Forgetful
2. Changeable
3. Chemical
4. Weather

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Egress

(1) Short cut
(2) Entrance
(3) Backwards
(4) Exit

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 154 Question Id : 3944843695 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase /Verb /Preposition

Shambles

(1) Bubble
(2) Confusion
(3) Trouble
(4) Cuddle

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 155 Question Id : 3944843696 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase /Verb /Preposition

Belligerent

(1) Aggressive
(2) Mournful
(3) Longing
(4) Cheerful

Options :
1. ✔ 1
Circumvent

(1) Encompass
(2) Invent
(3) Prevent
(4) Convered

Options:
1. ☑️ 1
2. ✗ 2
3. ☑️ 3
4. ✗ 4

The ongoing festivities ___ the peace of the neighbourhood.

(1) Distracted
(2) Deferred
(3) Disturbed
(4) Distressed

Options:
1. ☑️ 1
2. ✗ 2
3. ☑️ 3
4. ✗ 4
Swarna has a ____ for science, while her brother is more interested in the arts.

(1) Tenet
(2) Geniality
(3) Resonance
(4) Predisposition

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

He knows many languages. He is a ____.

(1) Polytheist
(2) Polygamist
(3) Polyphonist
(4) Polyglot

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
Netizens decried the _____ with which the government doctor treated the patients.

(1) Compassion  
(2) Complaisance  
(3) Hunger  
(4) Callousness

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number: 3
Sub-Section Id: 394484373
Question Shuffling Allowed: Yes

Correct Marks: 1 Wrong Marks: 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition.

A small piece of semiconductor used to carry integrated circuits is known as _____.

(1) Micro computer  
(2) Microchip  
(3) Microdot  
(4) Microfilm

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 162 Question Id: 3944843703 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition.
To obtain or retrieve information from a storage device is known as _____.

(1) Access  
(2) Adapter  
(3) Add-on  
(4) Address

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 163 Question Id: 3944843704 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word/Phrase/Verb/Preposition

Inventor of daisy wheel printer is _____.

(1) Andrew Marvel  
(2) Joseph Edison  
(3) William Caxton  
(4) David S Lee

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔️ 4

Question Number: 164 Question Id: 3944843705 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word/Phrase/Verb/Preposition
A socket on a computer into which an external device can be plugged in is known as ____.

(1) Point  
(2) Port  
(3) Pointer  
(4) Post

Options:
1. ✗ 1  
2. ✔ 2  
3. ✗ 3  
4. ✗ 4

Question Number : 165 Question Id : 3944843706 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition:

ASCII is expanded as ________________________________.

(1) Australian Standard Computing International Interchange  
(2) American Software Computer Interlining Interface  
(3) American Standard Code for Information Interchange  
(4) Automatic Standard Code for Information Initiative

Options:
1. ✗ 1  
2. ✗ 2  
3. ✔ 3  
4. ✗ 4

Question Number : 166 Question Id : 3944843707 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical  
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition:

Analysing and solving serious problem for a company or organisation is called ____.

(1) Arbitrating  
(2) Trouble shooting  
(3) Trouble making  
(4) Mediating

Options:
Question Number : 167 Question Id : 3944843708 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Encryption is being used primarily with _____.

(1) Transaction entry
(2) Computer processing
(3) Data communication
(4) File retention.

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 168 Question Id : 3944843709 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

A Model in which one physical property is used to represent another physical property is known as _____.

(1) Analog Model
(2) Deterministic Model
(3) Iconic Model
(4) Decision Theory Model

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 169 Question Id : 3944843710 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

___________ is not a peripheral of a computer.

(1) Keyboard
(2) CPU
(3) Printer
(4) Scanner

Options :
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 170 Question Id : 3944843711 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

___________ is a trade test.

(1) Interview
(2) Interest test
(3) Aptitude test
(4) Achievement test

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Sub-Section Number : 4
Sub-Section Id : 394484374
Question Shuffling Allowed : Yes

Question Number : 171 Question Id : 3944843712 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
A: After finishing your Marine Engineering degree course, what do you think you'll do?

B: It is difficult for me to answer for I'm quite at sea

In this conversation B implies that he is

(1) Unwell
(2) Displeased
(3) Perplexed
(4) In danger

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 172 Question Id : 3944843713 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition:

PT Usha bore away the gold medals in all track events.

The underlined phrasal verb means:

(1) Sustained
(2) Won
(3) Missed
(4) Narrowly missed

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 173 Question Id : 3944843714 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Our new office is equipped with all the latest gadgets. What is the meaning of ‘equip with’?

(1) provide
(2) get rid of
(3) spoil
(4) tamper

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

A: The people in the organisation were bent upon exhibiting their superiority.

B: Multiplicity of leadership gives way to decline.

A: True, too many cooks spoil the broth.

‘A’ means that

(1) There should not be more than one cook in the kitchen
(2) Many cooks made better gruel
(3) No organisation can afford too many bosses
(4) An organisation thrives on contrary opinions

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition:

With Ramana’s new venture failing completely, he is down in the dumps.

The underlined expression means, Ramana

(1) Fell from grace
(2) Packed up
(3) Is bed-ridden
(4) Appeared miserable

Options :
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number : 176 Question Id : 3944843717 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition:

A rough and clumsy person is considered

(1) A horse in a French shop
(2) A dog in the mall
(3) An elephant in a German store
(4) A bull in a China shop

Options :
1. ☒ 1
2. ☒ 2
3. ☒ 3
4. ☒ 4

Question Number : 177 Question Id : 3944843718 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition.

The authorities **took him to task** for his negligence.

The underlined expression means

(1) Reprimanded him
(2) Forced him to resign
(3) Gave him additional work
(4) Suspended his assignment

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number : 5
Sub-Section Id : 394484375
Question Shuffling Allowed : Yes

Question Number : 178 Question Id : 3944843719 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition.

He has been writing a letter _____ three hours.

(1) Since
(2) By
(3) For
(4) At

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 179 Question Id : 3944843720 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
I will go home ____ the end of the movie

(1) In
(2) At
(3) On
(4) About

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

The noise interferes _____ my work

(1) With
(2) At
(3) In
(4) On

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
I saw him as I _____ down the lane

(1) Go
(2) Going
(3) Was going
(4) Is going

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 182 Question Id: 3944843723 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition.

He seems to be ____, I saw him in an expensive suit.

(1) Better off
(2) Well of
(3) Best off
(4) Well off

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 183 Question Id: 3944843724 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition.

He has ______________ as CEO of the organization very recently

(1) Taken off
(2) Taken over
(3) Taken up
(4) Taken in
Thanks to the good food in hostel, Raju ____ some weight.

(1) Put on
(2) Put up
(3) Put up with
(4) Put down

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

We ____ the matter for an hour but without any result.

(1) Talked out of
(2) Talked over
(3) Talked back
(4) Talked down

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Patriotism is a very complex feeling, built up out of primitive instincts and highly intellectual convictions. There is love of home, family and friends, making us peculiarly anxious to preserve our own country from invasion. There is the mild instinctive liking for compatriots as against foreigners. There is pride which is bound up with the success of community to which we feel that we belong. There is a belief, suggested by pride but reinforced by history that one’s own nation represents a great tradition and stands for ideals that are important for human race. But besides all these, there is another element, at once nobler and more open to attack, an element of worship, of willing sacrifice, of joyful merging of the individual life with the life of the nation. This religious element in patriotism is essential to the strength of the State since it enlists the best that is in most men on the side of national sacrifice.

Sub questions

Question Number : 186 Question Id : 3944843728 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

We try to protect our country because?

1. (1) We love our home, family and friends
2. (2) We love outsiders
3. (3) We love outsiders as much as we love ourselves
4. (4) We think outsiders as our own

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 187 Question Id : 3944843729 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The word ‘compatriot’ means

1. (1) Fellow countrymen
2. (2) Fellow human beings
3. (3) Fellow villagers
4. (4) Fellow townsman
Which of the following statements about patriotism is false according to the passage?

(1) It is a noble belief
(2) It expects sacrifice
(3) It is an invulnerable idea
(4) It is essential for the strength of the State

The attitudes of the speaker of the passage is?

(1) Satirical
(2) Analytical
(3) Persuasive
(4) Disapproving
Which of the following statements is false?

(1) We often like our countrymen than others.
(2) There is a religious element in patriotism.
(3) Our patriotism is directly linked to the success of our country.
(4) We believe that all nations epitomize ideals that are important for human race.

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number: 7
Sub-Section Id: 394484377
Question Shuffling Allowed: Yes

Question Id: 3944843733 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No Question Numbers: (191 to 195)

Read the following passage and answer questions
A study found that music therapy sessions have a positive effect on the neurorehabilitation of acute stroke patients. The research was carried out on a 26-bed stroke and rehabilitation unit at a hospital in the UK. In total, 177 patients took part in 675 Neurologic Music Therapy (NMT) sessions over a two-year period. According to the researchers, music therapy is understood to help stroke patients through mood regulation, improved concentration, and promoting changes in the brain to improve function, known as neural reorganisation. Lots of repetition or “massed practice”, is central to neurorehabilitation. In addition to playing physical instruments (keyboard, drums and hand-held percussion), touch screen instruments were used in the trial to help patients with hand rehabilitation, through improving finger dexterity, and cognitive training.

NMT sessions were run alongside existing stroke rehabilitation treatment, including physiotherapy, occupational therapy, speech therapy, and clinical psychology. Of the 139 patients, relatives and hospital staff who completed mood-scale questionnaires, the average response was that NMT was helpful or very helpful. And of the 52 patients who completed mood-scale questionnaires, there was a reduction in sadness and an increase in happy responses immediately following a session. Speech and language therapists observed a positive impact on patient engagement and reported that it may help patients overcome low mood and fatigue – both common following stroke – and therefore be beneficial for their rehabilitation.

“The fact 675 sessions were carried out in two years is in itself an indication of the success of the treatment. It shows that staff are referring patients because they understand the mechanisms of the exercise and can see how it can benefit their patients. It also shows that patients are willing to do the exercises, with each one participating in an average of five sessions”, a researcher said.

Sub questions

Question Number : 191 Question Id : 3944843734 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What was the duration of the research experiment?

(1) 26 weeks
(2) One year and eight months
(3) Two years
(4) Five years

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
How many sessions of the therapy were carried out?

(1) 52  
(2) 675  
(3) 177  
(4) 139

Options:
1. ✗ 1
2. ✔️ 2
3. ✗ 3
4. ✗ 4

What is central to the rehabilitation process?

(1) Repetition  
(2) Mood swings  
(3) Happy responses  
(4) Finger dexterity

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

How many patients respond to the mood-scale questionnaires?

(1) 177  
(2) 26  
(3) 139  
(4) 52

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔️ 4
Which fact is not mentioned as evidence of the success of the research?

(1) More patients were being referred
(2) More patients were willing to do the exercises
(3) Each patient did the exercises without fatigue
(4) Each patient took part in an average of 5 sessions

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Sub-Section Number: 8
Sub-Section Id: 394484378
Question Shuffling Allowed: Yes

Question Id: 3944843739 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No Question Numbers: (196 to 200)

Read the following passage and answer questions
Thailand brings to mind turquoise blue waters, highest landscapes, and thriving wildlife. My journey began at Don Muong airport as I took the flight to Phuket.

The first day had me travelling to Big Buddha, one of the revered landmarks on the island. It sits atop a hill and is a 45-meter-tall white marble statue of Buddha. Driving up hill I came across an elephant safari and opted not to do the ride for ethical reasons but you could go feed the elephants, play with them and that truly was out of the world. The elephants were tamed and did the sweetest actions like kissing the tourists, asking for food and I would like to believe that they did it of their own accord. The elephant I met was called Anda and he was a baby, terribly cute and his mannerisms were unlike any animals I have seen. The route is dotted with many cafes that have a spectacular view of the ocean and a nice mocktail coupled with the cold breeze and the sounds of waves was a beautiful way to spend the afternoon.

Phuket was all about exploring beaches and the best part is that it is so close to the many other islands that are just a boat trip away. I decided to go on an island-hopping adventure and took a speed boat to the first island, Panak. In one of the many islands on Phang Nga Bay the resort owner told me that the experience would be like no other.

The island had limestone formations and looked absolutely stunning. We had to take a look at the island from the boat. As the boat went close to the rocks, I observed something moving in the water, it jumped back on to the rock. It was a monkey. The island had monkeys around that very simply jumped into the water, swam and came back on the rocks. For someone who encountered monkeys in the wild as notorious little animals that mostly live on trees, this was pretty fascinating. It wasn’t the monkeys but the landscape they lived in that had us, many Indians included, in awe.

Sub questions

Question Number : 196 Question Id : 3944843740 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What was the name of the first island on the island-hopping trip?

(1) Phuket
(2) Don Muong
(3) Phang Nga
(4) Panak

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 197 Question Id : 3944843741 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Where, according to the writer, should one spend one’s afternoons?

(1) In a boat
(2) At a café
(3) On a hill
(4) At the beach

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 198 Question Id : 3944843742 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What was the Big Buddha made of?

(1) Marble
(2) Stone
(3) Metal
(4) Wood

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 199 Question Id : 3944843743 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The unusual feature the writer noticed during the boat trip was _____

(1) Man-made rock formations
(2) People on peaceful beaches
(3) Monkeys
(4) Colourful view of the ocean

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
Why did the writer decide not to undertake the elephant ride?

(1) The writer preferred to stay far away from all animals
(2) The writer played with them from a distance
(3) The writer wanted to watch the tourists feeding them
(4) The writer did not approve of the taming of the elephants

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4