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 2019 24May Shift 1
Subject Name: TS ICET 2019
Creation Date: 2019-05-24 14:55:23
Duration: 150
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?: No

Group Number: 1
Group Id: 66726924
Group Maximum Duration: 0
Group Minimum Duration: 150
Revisit allowed for view?: No
Revisit allowed for edit?: No
Break time: 0
Group Marks: 200

Analytical Ability
Section Id: 66726970
Section Number: 1
Section type: Online
Mandatory or Optional: Mandatory
Number of Questions: 60
Number of Questions to be attempted: 60
Section Marks: 75
Display Number Panel: Yes
Group All Questions: No
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

For a>1, b>1, what is the LCM of a and b?

\[ a>1, \ b>1 \Rightarrow \text{What is the LCM of } a \text{ and } b? \]

I. The product of a and b is 1763
   \[ a \times b = 1763 \]

II. a and b are coprimes
   \[ a \text{ and } b \text{ are coprimes} \]

a) \[ a \times b = 1763 \]
   b) \[ a \text{ and } b \text{ are coprimes} \]
Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 2  Question Id: 6672694780  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 (a) to (d) 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 statements 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.

If $a$, $b$, $c$ are positive integers, is their product $abc$ even?

$a$, $b$, $c$ ఎందుకు ఉపయోగించే సామాన్యమైన సంఖ్యలు, తాదే యొక్క గుణం $abc$ ఎందుకు సమగ్రంపై?

I. $a + b + c$ is odd
$a + b + c$ ఎందరేమనం

II. $a + c$ is odd
$a + c$ ఎందరేమనం
Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 3  Question Id : 6672694781  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

Is \( a > b \)?

\( a > b \) ఎంతారం?
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 4  Question Id : 6672694782  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

Is the parallelogram ABCD a rectangle?

Is the parallelogram ABCD a rectangle?

I. \( AC = BD \)
II. \( \angle A + \angle B = 180^0 \)

Options:

1. ✅ 1
2. **2
3. **3
4. **4

Question Number : 5  Question Id : 6672694783  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the area of the circle?

What is the area of the circle?

I. The circle is inscribed in a square

II. The length of the side of the square is 8 cm
Options:
1. ✗ 1
2. ✔️ 2
3. ✗ 3
4. ✗ 4

Question Number : 6  Question Id : 6672694784  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the three digit number $P$, where 100 < $P$ < 210?

100 < $P$ < 210 అమలాజేసుకోడు, ఎందుకంటంటే $P$ ఎత్తుడు?

I. $P$ gives remainder 9 when divided by 10

II. $P$ is divisible by 11
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the cost of one chair?

I. 1 Chair and 1 Table cost Rs. 12,000

II. The cost of Table is twice the cost of the Chair
Options:
1. ✶ 1
2. ✶ 2
3. ✔ 3
4. ✶ 4

Question Number : 8  Question Id : 6672694786  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
(i) **Data Sufficiency**

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is selling price of each article?

**అంతర్భాష సూచించడానికి రెండు వారిగా కొనసాగించండి?**

I. The trader made a profit of Rs. 100
   
   ఆరోగ్యం 100 రూపాయలు మిగిలిస్తుంది.

II. Two successive discounts of 10% each were given
   
   మూడు కొంతమురక్షా నిష్పత్తులు, దాదాపు 10% ఇది కొంతమురక్షా నిష్పత్తులు, కంప్యూట్రల్ సంఖ్య. అంతేందుకంటా?
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number: 9  Question Id: 6672694787  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What are the two natural numbers \(a\) and \(b\)?

\(a\) మరియు \(b\) ఎంటే ఎందుకు?

I. \(\text{LCM of } a \text{ and } b = 240\)

\(a \text{ మరియు } b \text{ లోపల లిమ్బింగు పరిమాణం } = 240\)

II. \(\text{HCF of } a \text{ and } b = 20\)

\(a \text{ మరియు } b \text{ లోపల హింమింగు పరిమాణం } = 20\)
(i) **Data Sufficiency**

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

How many people in the city speak Hindi?

సమీప నగరంలో హిందీ భాషాలు పట్టివేయించడానికి ఎంత వాణిపు?

I. 10% of people in the city can speak two languages

సమీప నగరంలో 10% వాణిపు రెండు భాషలు పట్టివేయించడానికి.

II. 5% of people in the city who can speak two languages can speak Hindi

సమీప నగరంలో రెండు భాషలు పట్టివేయించడానికి 5% వాణిపు హింది పట్టివేయించడానికి.
Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 11  Question Id: 6672694789  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

Does the point \((x, y)\) lie in the first quadrant?

\((x, y)\) చవకతో మిగిలిన రాశిలో ఉంది?

I. \(xy < -10\)
II. \(x + y \leq 10\)

Options:
1. ✔️ 1
2. * 2
3. * 3
4. * 4

Question Number : 12  Question Id : 6672694790  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

Is 6 a factor of \( n+3 \) ?

\( n+3 \) అది 6 పాఠం కోసం విభాజించేది?

I. \( n \) is even and divisible by 3

\( n \) సమాసం నిష్క్రియ 3 పాఠం విభాజించేది.

II. \( n \) is divisible by a prime number

\( n \) పాఠం పింటికి విభాజించబడింది.
Options:
1. ✅ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 13  Question Id : 6672694791  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) **Data Sufficiency**

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the height of the tree?

**ప్రత్యేకింద్యం ఎంత?**

I. The height of mountain is 300 mts
   మండలీ ఎంత 300 మీటర్ల

II. The angles of depression of the top of the tree and the bottom of the tree are 45° and 60° respectively as seen from the top of the mountain.
   మండలీ మూడు మూడు (అంటే) నీటిలో ఎంత (చట్ట) అంటే మూడు మూడు 45° మూడు 60°.
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

How many men are required to complete the work in 40 days?

I. 8 men and 10 women can complete the work in 20 days.
II. 12 women can complete the work in 30 days.
Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 15  Question Id : 6672694793  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the value of \( x \) in the matrix

\[
A = \begin{bmatrix}
x & 1 & 0 \\
1 & 2 & 3 \\
3 & 4 & x \\
\end{bmatrix}
\]

I. \( A \) is a singular matrix

\( A \) is सिंगरल मॅट्रिक्स है?

II. \( A \) is a non-singular matrix

\( A \) नॉन-सिंगरल मॅट्रिक्स है?
Options:
1. ✔ 1
2. 2
3. 3
4. 4

Question Number: 16  Question Id: 6672694794  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

Let’s take one example: Let’s say we have two points A and B, and we need to find the distance between them. We have the following statements:

I. The distance between A and B is 10 units.
II. The distance between A and C is 15 units, and the distance between B and C is 20 units.

We need to determine whether the distance between A and B is less than 15 units.

C is a point on the line joining B and E. D and A are point above BC such that \( DCE = \frac{1}{2} \angle ACE \). Is CD parallel to AB?

Yes, CD is parallel to AB. Since \( DCE = \frac{1}{2} \angle ACE \), and B, C, and E are collinear, CD is parallel to AB by the properties of parallel lines.

A is BC is a point five times as far as B. Does AB and CD have the same relation?

I. ABC is a scalene triangle
   ABC అనే రెండు మాత్రమే వైపులు చెందిన మూడు పంచాయత్తి

II. BC = CE

BC = CE means that BC and CE have the same length. This does not necessarily mean that AB and CD are parallel, as the lengths of AB and CD are not given in the question.
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What are the co-ordinates of the point Q?

పరిమాణం Q పరిమాణానికి?

I. Q lies on the straight line / whose slope is 3

మాయనీ 3 కల్పించిన స్పుతి / Q కాలుమను.

II. / makes an intercept of 4 on y-axis

y ఎంటర్ 4 / కొంచెం ఎంటర్ 4
Options:
1. ☑ 1
2. ☑ 2
3. ☑ 3
4. ✓ 4

Question Number: 18  Question Id: 6672694796  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the number of divisors of $n$?

$n$ మంచి భాగపత్రి ఎక్కడ ఉంది?

I. $1 \leq n \leq 10,000$

II. $n = 6000$

Options:

1. * 1
Question Number : 19  Question Id : 6672694797  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Data Sufficiency

Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

How many positive integers are less than \( n \) and relatively prime to \( n \)?

\( n \) యొక్క ముఖ్తాత్మక సంఖ్యలు \( n \) నుండి ప్రతియేనికోదిగిన విభాగాలు ఎంత? 

I. \( n = 2^3 \times 5^2 \times 7^3 \)

II. \( n \) is composite

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 20  Question Id : 6672694798  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) **Data Sufficiency**

**సంఖ్యా శాస్త్రం**

**Note:** In questions numbered 1 to 20, a question is followed by data in the form of two statements labeled 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 statements 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.

What is the first term of the Geometric Progression $t_1, t_2, t_3 \ldots \ldots$?

<table>
<thead>
<tr>
<th>t_1, t_2, t_3 \ldots \ldots ఎంచుయున్నది?</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. $t_4 : t_3 = 2$</td>
</tr>
<tr>
<td>II. $t_5 = 64$</td>
</tr>
</tbody>
</table>

**Options:**

1. * 1
2. * 2
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

१) १५३, तीन ६८५९.

   (1) ३३७५
   (2) १३३१
   (3) २१९७
   (4) १७२८
Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

7, 3, 8, ________, 9, 5.

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

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 23  Question Id : 6672694801  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

I, L, S, __________, Y

(1) E
(2) G
(3) F
(4) H

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 24  Question Id : 6672694802  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

Z, W, Q _________, V

(1) H
(2) J
(3) G
(4) I

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Correct Marks: 1 Wrong Marks: 0
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

170, 1332, 50, __________, 10.

(1) 82  
(2) 75  
(3) 120  
(4) 126

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

Question Number: 26  Question Id: 6672694804  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Problem Solving

Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

6FL : 9IR : : __________ : 5EJ

(1) 3CE
(2) 2BD
(3) 4DF
(4) 8HP
(i) **Problem Solving**

(a) **Sequence and Series**

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

Book: Publisher: : Film : ________

ဗွီးဗေဒ : ရွေးပေါက်စ် : ရုပ်ရှင် : ________

(1) Director နေရာသိုင်း
(2) Editor ပြသင်္ချောင်း
(3) Script Writer စာစီကျောင်း
(4) Producer ပထမ်း

Options :
1. * 1
2. * 2
3. * 3
4. ✓ 4

Question Number : 28  Question Id : 6672694806  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0
Problem Solving

Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

RAM: UGV :: CAT :_______

1. FGV
2. FCG
3. FGC
4. GFC

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

Question Number : 29  Question Id : 6672694807  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

\[ \frac{Z}{M} : 2 :: \frac{T}{E} : \_\_\_\_\_\_\_ \]

1. 2
2. 3
3. 4
4. 5

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

Correct Marks: 1 Wrong Marks: 0
(i) Problem Solving

(a) Sequence and Series

Note: In each of the questions numbered 21 to 30, a sequence of numbers or letters that follow a definite pattern is given. Each question has a blank space. This has to be filled by the correct answer from the four given options to complete the sequence without breaking the pattern.

OP : 30 :: CX : ___________

(1) 72
(2) 24
(3) 9
(4) 18

Options:
1. 1
2. 2
3. 3
4. 4
Note: In questions numbered 31 to 35 pick the odd thing out:

31 మాదిరి 35 సమాచారంగా విప్లవించాలనే సమస్యలు గాను చేరాలంటే సంశాస్త్ర పరిస్థితులు.

(1) Chord
(2) Radius
(3) Circumference
(4) Diagonal

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Note: In questions numbered 31 to 35 pick the odd thing out:

31 మాదిరి 35 సమాచారంగా విప్లవించాలనే సమస్యలు గాను చేరాలంటే సంశాస్త్ర పరిస్థితులు.

(1) Crow
(2) Parrot
(3) Eagle
(4) Duck

Options:
1. ✗ 1
2. ✗ 2
Note: In questions numbered 31 to 35 pick the odd thing out:

(1) $x^2 + y - 2\sqrt{y}$
(2) $x + y + 2\sqrt{xy}$
(3) $x^2 - y^2 + 2\sqrt{xy}$
(4) $4x^2 - 4\sqrt{3}xy + 3y^2$

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Note: In questions numbered 31 to 35 pick the odd thing out:

(1) 62
(2) 59
(3) 67
(4) 73

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Note: In questions numbered 31 to 35 pick the odd thing out:

(1) Hyderabad  హైదరాబాద్
(2) Mumbai  మumbai
(3) Bhuvaneshwar  భువనेश్వరి
(4) Indore  ఐనొడ్

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Sub-Section Number: 4
Sub-Section Id: 667269485
Question Shuffling Allowed: Yes
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

9. ______, 126, 48, 1332, 168

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

DOG, HDN, PHB, ________

(1) ABW
(2) BAW
(3) BAV
(4) BAX

Options:
1. * 1
2. ✓ 2
3. * 3
4. * 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

 ganitha:
36 మధ్య 45 వరకు పంపిన అంకాలను లిఖించండి. అంకాలను
పంపిన ఏమిటి విధంగా లిఖించండి?

Z, U, Q, ______ L

(1) K
(2) M
(3) I
(4) N

Options:
1. * 1
2. * 2
3. * 3
4. ✔ 4

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

 ganitha:
36 మధ్య 45 వరకు పంపిన అంకాలను లిఖించండి. అంకాలను
పంపిన ఏమిటి విధంగా లిఖించండి?

1, 4, 8, 11, 22, _______

(1) 25
(2) 33
(3) 26
(4) 44
Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 40  Question Id: 6672694818  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: 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.

A2A, D9E, G16I__________

(1) K 32 U
(2) J 32 O
(3) J 23 O
(4) I 25 O

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number: 41  Question Id: 6672694819  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: 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.

EDU, IGS, ______, QMO

(1) MJQ
(2) UPN
(3) MJP
(4) LJQ

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

BAT, EVA, _______, QFU,_______

(1) HMI, YTI
(2) JOJ, ZUH
(3) KOK, HUX
(4) IMH, TYI

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

6, 3, 1, 0.25, ____________

(1) 0.0083
(2) 0.05
(3) 0.5
(4) 0.005

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Note: Each of the questions from 36 to 45 follow a definite pattern. Observe the same and fill in the blanks with suitable answers.

36 కంటే 45 నుంచి ప్రతి ప్రశ్నాంశం ఒక సమాధానాది పదార్ధాల తీర్పుతో ఉంటుంది. అది ప్రతివిధి,

\{X, Y\}, \{X + Y, X - Y\}, \{2X, 2Y\}, \{2(X + Y), 2(X - Y)\},

\{______, _______\}

(1) 3X, 3Y
(2) 3(X + Y), 3(X - Y)
(3) 4X, 4Y
(4) 4(X + Y), 4(X - Y)

Options:

1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 45  Question Id : 6672694823  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : 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.

2 + \sqrt{6}, 4 + \sqrt{20}, 6 + \sqrt{42}, \ldots

(1) \quad 8 + \sqrt{72}
(2) \quad 12 + \sqrt{72}
(3) \quad 8 + \sqrt{74}
(4) \quad 8 + 3\sqrt{7}

Options:
1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 5
Sub-Section Id: 667269486
Question Shuffling Allowed: Yes
Question Id: 6672694824  Question Type: COMPREHENSION  Sub Question Shuffling Allowed: Yes  Group Comprehension
Questions: No
Question Numbers: (46 to 48)
(b) Data Analysis

Study the following Bar diagram carefully and answer questions 46 to 48.

The average food production (in Tonnes) from 2001 to 2005 is

2001 మధ్య 2005 సంవత్సరాల సరిహద్దు విత్తనం (టన్లు)

(1) 50,000
(2) 40,000
(3) 45,000
(4) 55,000

Options :
1. ✔ 1
2. ✗ 2
Question Number : 47  Question Id : 6672694826  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Options :
1. * 1
2. * 2
3. * 3
4. ✓ 4

The ratio between the increase in production between 2000 and 2003 and 2000 and 2005 is:

2000 నందు 2003 మధ్య, 2000 నందు 2005 మధ్య వేగం ప్రత్యేకించిన తారికీ సంఖ్యలు

(1) 3:2
(2) 4:3
(3) 5:3
(4) 5:2

Question Number : 48  Question Id : 6672694827  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Options :
1. * 1
2. * 2
3. ✓ 3

The approximate percentage increase in production of food grains from 2001 to 2003 is:

2001 నందు 2003 మధ్య వేగం ప్రత్యేకించిన తారికీ సంఖ్యలు (కమ్ముల కోసం):

(1) 15.66%
(2) 15.03%
(3) 16.66%
(4) 16.075%
Note: The marks obtained by a student in the examination in (A) Mathematics (B) English (C) Telugu, (D) Social Science (E) Science are depicted in the following Pie Diagram. Based on this data answer the questions 49 to 53.

Sub questions

Question Number : 49  Question Id : 6672694829  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
If the student secured 150 marks in A, how many total marks did he secure in the complete examination?

(1) 360  
(2) 450  
(3) 600  
(4) 1000

The ratio of the marks obtained by the student in Mathematics and Telugu.

(1) 11:9  
(2) 15:13  
(3) 18:13  
(4) 19:14

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.
If a student has scored 150 marks in Mathematics, how many marks did he score in social science?

మాఠిల్లపై కోలివడం నుంచి 150 మార్క్స్ లేయారు. వాడతున్నారు ప్రత్యేకమైన రాశి ఎంత మార్క్స్ లేయారు?

(1) 100
(2) 105
(3) 110
(4) 120

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

What is the percentage of the total marks scored by the student in C, D and E put together?

చిన్ని, హునాను మరియు ఎ స్టూడెంట్ నుంచి మొత్తం మార్క్స్ లేయారు?

(1) $52\frac{1}{3}$
(2) $58\frac{1}{3}$
(3) $60\frac{1}{3}$
(4) $61\frac{1}{3}$

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.
If a student got 150 marks in A, how many marks did he get in D & E put together?

(1) \(240 \frac{1}{3}\)  
(2) \(241 \frac{2}{3}\)  
(3) 245  
(4) \(245 \frac{1}{3}\)

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options:
1. 1  
2. 2  
3. 3  
4. 4
Note: The following passage to be analyzed for answering the questions
(Q. No. 54 to 55)

In a class of 60 students, 23 play Hockey, 15 play Basketball and 20 plays Cricket. 7 play Hockey and Basketball, 5 play Cricket and Basket Ball, 4 play Hockey and Cricket, and 15 students do not play any of these games. Using this data, answer the questions 54 and 55.

The number of students who play Hockey, Basketball and Cricket is.

(1) 3
(2) 8
(3) 11
(4) 6

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

The number of students who play Hockey, Basketball and Cricket is.

(1) 3
(2) 8
(3) 11
(4) 6

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
The number of students who play Cricket and Hockey but not Basketball is

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

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Id: 6672694837  Question Type: COMPREHENSION  Sub Question Shuffling Allowed: Yes  Group Comprehension Questions: No  Question Numbers: (56 to 60)
(c) Coding and Decoding Problems

Note: The letters A, B, C, …..Z of the English Alphabet are numbered 1, 2 …….. 26 respectively. A Code is designed by the following rule:

Rule: The i th letter is coded as the j th letter where \( j = 3i + 2 \) (mod 26). The reverse process is followed for decoding.

Example: The 9 th letter I is coded as C because, \( 3 \times 9 + 2 \) (mod 26) is 29 (mod 26) which is 3 and the letter C is numbered as 3. Based on this coding procedure answer the questions 56 to 60.

Sub questions

The code for \textit{COMPUTER} is?

\textbf{COMPUTER} is \textit{KUOXMJQD}

Options:
1. \( \checkmark \) 1
2. * 2
What is the code for STATE?

STATE సిటి?

(1) GSFSP
(2) GJEJQ
(3) GJFJP
(4) GQEQR

Which word is coded as FULLY?

FULLY అనునది శాస్తించబడినది?

(1) SILLY
(2) JETTY
(3) JOLLY
(4) SORRY
The number of letters of the alphabet that remain unchanged in this coding is

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

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

What is the code for MANAGER?

MANAGER ຢ່າງ ວ່າ?

(1) O E R E W Q D
(2) O F S F W P D
(3) O G R G V Q E
(4) O H Q H U R D

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Note: A word or a group of letters to be coded or decoded based on certain codes. Using the information, answer the questions 61 to 65.

Sub questions

Question Number: 61  Question Id: 6672694844  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0

If “CHENNAI” is coded as “XSVMMZR” than “MUMBAI” is coded as:

CHENNAI ☂ XSVMMZR ☂  MUMBAI ☂  Alternate Codes:

(1) NONAYR
(2) LFLYZR
(3) OFOXRZ
(4) NFNYZR

Options:
1. ✎ 1
2. ✎ 2
3. ✎ 3
4. ✚ 4

Question Number: 62  Question Id: 6672694845  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Correct Marks: 1  Wrong Marks: 0

If “PUNE” is coded as “QXSL”, then the code for “CUTE” is

PUNE ☂ QXSL ☂  Alternate Codes ☂  CUTE ☂ Alternate Codes:

(1) EXZL
(2) DXYL
(3) CXYL
(4) FXAL

Options:
If “MAHATMA” is coded as “PDKAQJX” then “KRISHNA” is coded as “MAHATMA” or “PDKAQJX”. Which of the following options is correct?

1. NULSKEX
2. NULSXEX
3. NULSEXM
4. NULSEKX

If “RING” is coded as “SJMF” then which of the following is coded as “GSNF”?

1. FIGO
2. FRUG
3. FROG
4. FORK
If “2018” is coded as “7981” then “1947” is the code for


(1) 8153
(2) 8052
(3) 8025
(4) 8513

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

If “2018” is coded as “7981” then “1947” is the code for


(1) 8153
(2) 8052
(3) 8025
(4) 8513

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
If today is Friday, then the day after 185 days will be

(1) Sunday

(2) Wednesday

(3) Tuesday

(4) Monday

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
(d) Date, Time & Arrangement Problems

At what time between 7'O clock and 8'O clock will the two hands in the clock be at right angles to each other?

7 మిలియన్ 8 మిలియన్ మధ్య నాటికి త్రవం నిర్ధిష్టమైన సంహిత సమాచారాలు దీని మొట్టు ఏ?

మిగిల్లా వాళి మిగిల్లా?

1. 7. 45\frac{5}{11}
2. 7. 55\frac{5}{11}
3. 7. 48\frac{5}{11}
4. 7. 46\frac{5}{11}

If a clock takes 20 seconds to strike 11, how many seconds will it take to strike 5?

11 మిలియన్ వద్ద 20 సంక్షిప్తమైన 5 మిలియన్ వద్ద ఎంత సంక్షిప్తమైన సమాచారాలు?
(d) Date, Time & Arrangement Problems

P says “my father is the only son of Q’s mother and A. Q are sisters”. If R is grandfather of A; B is Q’s son then how is P related to B?

A మత్తు కార్యకలాపాలు B అయితే, అతడు బి ప మత్తు వంటి?

(1) Brother
(2) Cousin
(3) Father
(4) Uncle

Options :
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4
(d) **Date, Time & Arrangement Problems**

Ram left office for the bus stop 15 minutes early. It takes 25 minutes for him to reach bus stop. Due to traffic he reached 10 minutes late and missed the bus. How much time did he take to come to bus stop?

15 మంది క్షితిజానికి 15 మంది క్షితిజం మాత్రమే ఉండాలి. 25 మంది క్షితిజం 15 మంది క్షితిజం మాత్రమే. తన వాహన కొరకు 10 మంది క్షితిజం మాత్రమే ఉండాలి. 25 మంది క్షితిజానికి ఆహ్లాదం అంటే ఎలా క్షితిజానికి ఉండాలి?

1. 30 minutes
2. 25 minutes
3. 50 minutes
4. 40 minutes

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

---

*Question Number : 71  Question Id : 6672694854  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes*  
*Single Line Question Option : No  Option Orientation : Vertical*  
*Correct Marks : 1  Wrong Marks : 0*
A train leaves Hyderabad at 6:10 a.m. and reaches Warangal at 9:25 a.m. The average speed of the train is 44 Kmph. Then the distance from Hyderabad to Warangal in km is:

(1) 130
(2) 135
(3) 143
(4) 140

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
(d) Date, Time & Arrangement Problems

A, F are in different rows and columns. B is opposite to F and H is opposite to D, who is in the same row as that of A, E and G are neighbors of F. If the person sitting in the rows faces each other and C is immediate right to D, then who is diagonally nearest to D?

A, F ఎందకు వేసుకోవడం వాసుదేవం కలకు. F ఎందకు బ కలకు


(1) H
(2) F
(3) G
(4) B
(d) Date, Time & Arrangement Problems

If + means ÷, - means ×, ÷ means + and × means −

Then the value of $16 + 4 ÷ 5 − 3 × 1$ is

$+ 4 ÷, − 5, × 3 ×$, ÷ $+$, − $+$, − $+$, − $+$, − $+$, − $+$

$16 + 4 ÷ 5 − 3 × 1$ మాత్రము

(1) 20
(2) 18
(3) 14
(4) 02

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(d) Date, Time & Arrangement Problems

\[ a \ast b = \frac{a^2 + b^2}{ab}, a > 0, b > 0 \Rightarrow \frac{(1^\ast 2) \ast (1^\ast 1)}{1^\ast 3} = \]

1. \[ \frac{111}{10} \]
2. \[ \frac{121}{100} \]
3. \[ \frac{123}{150} \]
4. \[ \frac{123}{200} \]
(d) Date, Time & Arrangement Problems

If the symbols *, #, @, £ represent addition, subtraction, multiplication and division respectively then:

\[
\frac{(15 \times 4)@ (12 \# 8)\# (15 \# 2)}{(15 \# 3)@ (12 \times 8)\# (5 \times 5)} =
\]

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

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options:
1. 1
2. 2
3. 3
4. 4
(i) Arithmetical Ability

\[
\frac{(x + \frac{1}{y})^a \cdot (x - \frac{1}{y})^b}{(y + \frac{1}{x})^a \cdot (y - \frac{1}{x})^b} =
\]

1. \( \frac{x}{y}^{a+b} \)
2. \( \frac{y}{x}^{a+b} \)
3. \( (x + y)^{a-b} \)
4. \( (x - y)^{a-b} \)

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) Arithmetical Ability

3^a = 5^b = 75^c \Rightarrow c(2a + b) =

(1) \quad a + b
(2) \quad ab
(3) \quad a - b
(4) \quad (ab)^{-1}

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

Question Number : 78  Question Id : 6672694861  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(ii) Arithmetical Ability

ab : bc : ca = 3 : 1 : 2 \Rightarrow \frac{a}{bc} : \frac{b}{ca} =

(1) \quad 1:4
(2) \quad 4:1
(3) \quad 4:3
(4) \quad 2:1

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

Question Number : 79  Question Id : 6672694862  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Arithmetical Ability

\[ \frac{a}{b} = 3 : 5 ; \ ab = 2535 \Rightarrow a + b = \]

(1) 104  
(2) 108  
(3) 112  
(4) 116

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 80  Question Id : 6672694863  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(i) Arithmetical Ability

\[ x = 5 + \sqrt[3]{5} + \sqrt[3]{25} \Rightarrow x^3 - 15x^2 + 60x + 10 = \]

(1) 40  
(2) 70  
(3) 90  
(4) 100

Options :
1. ✔ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 81  Question Id : 6672694864  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
(i) Arithmetical Ability

\[ \sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6 + \ldots \ldots}}} } = \]

(1) 6  
(2) 4  
(3) 3  
(4) 1

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

What is the least value of \( x \) such that \( 43x4567 \) is divisible by 11?

\[ 43x4567 \div 11 \text{ ప్రస్తాథం యొక్క } x \text{ నంపిని ఎంచుకోండి?} \]

(1) 4  
(2) 6  
(3) 7  
(4) 8

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
(i) Arithmetical Ability

The number of positive integers between 1 and 2087 that are divisible by 31 is:

1. 2087 ÷ 31 = 67

Options:
1. 53
2. 59
3. 67
4. 73

(ii) Arithmetical Ability

What is the largest four digit number that leaves a remainder 4 when it is divided by 36, 48 and 64?

36, 48, 64 వంటి సంఖ్యలు నిండు రాయబడిన 4 వాటిని బాగా కానుదాని మినమం సంఖ్య?

Options:
1. 9697
2. 9782
3. 9796
4. 9802
(i) Arithmetical Ability

What is the minimum number of square tiles required to pave a floor of dimensions 24.78 meters × 22.26 meters?

24.78 മീറ്റർ ഉയരമോട്ട് നില കൊത്തുക്കളുടെ എണ്ണം എതിരായി വാങ്ങാം എന്നാണ്

രണ്ടാമാണ് എന്നുകൊണ്ടും

1. 3027
2. 3127
3. 3242
4. 3247
(i) **Arithmetical Ability**

If the recurring decimal number $1.\overline{27}$ is equal to the rational number $\frac{p}{q}$, then $p - q =$

(1) 3
(2) 8
(3) 27
(4) 83

Options :
1. ✓ 1
2. 2
3. 3
4. 4
(i) Arithmetical Ability

The difference between the largest and the smallest of the following rational numbers is:

\[
\frac{3}{5}, \frac{3}{8}, \frac{2}{3}, \frac{4}{9}, \frac{1}{2}, \frac{6}{11}
\]

(1) \(\frac{11}{48}\)

(2) \(\frac{13}{48}\)

(3) \(\frac{11}{24}\)

(4) \(\frac{7}{24}\)

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

Correct Answer: 4
(i) Arithmetical Ability

What is the least fraction to be added to the sum of the following fractions to make it an integer?

\[ \frac{3}{3}, \frac{611}{12}, \frac{4}{36}, \frac{5}{12}, \frac{7}{4} \]

Options:

(1) \( \frac{7}{9} \)
(2) \( \frac{5}{9} \)
(3) \( \frac{2}{9} \)
(4) \( \frac{1}{9} \)

Correct Marks: 1 Wrong Marks: 0
(i) Arithmetical Ability

If the length of a rectangle is increased by 15% and the breadth decreased by 10% then the percentage change in its area is: 

(1) 7% increase
(2) 7% decrease
(3) $\frac{3}{2}$% decrease
(4) $\frac{3}{2}$% increase

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
(i) **Arithmetical Ability**

A spends 70% of his income and saves the rest. If his income increases by 15% and expenses increase by 20% the percentage change in his saving will be:

A సాపట్టి 70% ఆదిన సామర్థము సాధించేది. ఆదిన 15% వస్తువు మరుస్తు ఉంటుంది. ఆదిన 20% వస్తువు అంతా ప్రతి వస్తువు జరిగింది.

1) 30% increase
   30% అంగులు

2) \(\frac{10}{3}\)% increase
   \(\frac{10}{3}\)% అంగులు

3) \(\frac{3}{10}\)% decrease
   \(\frac{3}{10}\)% అంగులు

4) \(\frac{1}{10}\)% decrease
   \(\frac{1}{10}\) అంగులు
(i) Arithmetical Ability

A person buys an article for Rs. 18000 and after one year sells it for less than 25% of its cost price. What is the sale price (in Rs.)?

(1) 15,000
(2) 13,500
(3) 12,500
(4) 12,000

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 93  Question Id : 6672694876  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Arithmetical Ability

A buys a piece of land for Rs. 75 lakhs and sells it to B at a profit of 10%. B in turn sells it to C at a profit of 20%. The amount of money paid by C (in Rs. lakhs) is:

\[ A \text{ buys at Rs. 75 lakhs at 10% profit. } B \text{ buys at Rs. } \ldots \text{ at 20% profit. } C \text{ buys at Rs. } \ldots \text{ (as per options)}: \]

(1) 97
(2) 98
(3) 99
(4) 101

Options:
1. **1
2. **2
3. ✓3
4. **4
(i) Arithmetical Ability

$A$ and $B$ started a business with capitals of Rs. 12 lakhs and Rs. 24 lakhs respectively. $A$ receives a monthly salary for running the business. At the end of the year they receive Rs. 1,80,000 each. What was the monthly salary of $A$ (in Rs.)?

$A, B$ లు నాటికి భాగంలో 12 లక్షలు, భాగంలో 24 లక్షలు నామాందరి కల్పించారు. మధ్యకాలంలో $A$ నిర్మాణ ప్రాంతం నిపంచడానికి మొత్తం తీవ్రం యొక్కది.

మొత్తం 1,80,000 లేదాందరే మొదటి మధ్యకాలంలో $A$ నిర్మాణ ప్రాంతానికి మొత్తం గణని తీవ్రం యొక్కది?

(1) 6,000  
(2) 7,500  
(3) 9,000  
(4) 10,500  

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

Question Number : 95  Question Id : 6672694878  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  
Single Line Question Option : No  Option Orientation : Vertical  
Correct Marks : 1  Wrong Marks : 0
(i) **Arithmetical Ability**

एरिथमेटिक अबिलिटी

A and B enter into a partnership business with capitals in the ratio 4:5 respectively. At the end of 4 months A withdraws and B continued. At the end of the business they share profits in the ratio 1:5. The number of months B’s Capital was used is:

\[ \frac{A}{B} = \frac{4}{5} \]

The ratio of the number of months A's capital was used : B's capital was used:

\[ \frac{4}{5} \]

(a) 8
(b) 12
(c) 16
(d) 20

**Options:**

1. *1
2. *2
3. ✔3
4. *4

**Question Number : 96  Question Id : 6672694879  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0**
(i) Arithmetical Ability

2 pipes can fill a tank in 30 minutes and 36 minutes respectively. A third pipe empties the tank at the rate of 11 liters per minute. If all the three pipes are opened simultaneously it take $22\frac{1}{2}$ minutes for the tank to be full. The capacity of the tank in litres is:

2 పిపిలు కార్యంలో కొనసాగ యుద్ధం పెంచేదారు. మరొక పిపిలు 11 లిటరులు మార్గానం చేస్తుందా అయితే, సారిస్థులలో 22$\frac{1}{2}$ మినిటులుగా పెంచేదారు. కొనసాగ యుద్ధం పెంచేదారు కొనసాగ యుద్ధం పెంచేదారు పెంచేదారు కొనసాగ యుద్ధం పెంచేదారు లిటరులు ఉండాలి:

(1) 1060
(2) 960
(3) 760
(4) 660

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) Arithmetical Ability

అత్యంత హారుండి

Two pipes $A$ and $B$ can fill a tank in 2 hours and 3 hours respectively. If both the pipes are opened together the time required in minutes to fill the tank is:

$A, B$ రెండు పిప్సు 2 మిం, 3 మిం గా వందుతాయి. రెండు పిప్సుల సామాకు తోడుకుండా దేవి సమయం మీరు ఎంతో తెలుసు?

(1) 72
(2) 85
(3) 105
(4) 108

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
A man is walking at a speed of 10 kmph. After every kilometer he takes rest for 5 minutes. How much time he takes in minutes to cover a distance of 7 kms?

(1) 68  
(2) 70  
(3) 72  
(4) 76

Options:
1. ★ 1
2. ★ 2
3. ✔ 3
4. ★ 4

Question Number : 99  Question Id : 6672694882  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  
Single Line Question Option : No  Option Orientation : Vertical  
Correct Marks : 1  Wrong Marks : 0
Arithmetical Ability

What is the time taken in hours by a cart to cover a distance of 0.9 km at 0.25 (meters per second)?

0.9 కి.మీ. నడపడి 0.25 మీ/సెక్షన్ వేగంతో ఎంత సమయంలో 0.9 కి.మీ నడపడాలి?

(1) 1
(2) 1.2
(3) 1.4
(4) 1.5

Options:
1. ☑ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) Arithmetical Ability

R and S can finish a job in 10 days, S and M can finish it in 12 days and M and R can finish it in 15 days. In how many days will R, S and M together finish the job?

**(Telugu Translation)**

R, S అంటే 10 దిశనాలలో పూలు మీది, S, M అంటే 12 దిశనాలలో M, R అంటే 15 దిశనాలలో పూలు మీది. R, S, M అంటే మరియు సంయోగంలో ఎంత దిశనాలలో పూలు మీది వచ్చు ఉంటాం?

(1) 8
(2) 7
(3) 6\frac{1}{2}
(4) 6

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) Arithmetical Ability

P can do a work in 12 days and Q can do the same work in 16 days. Both start the work together and Q left after 4 days. How many more days are required by P to finish the work?

P సేదులు 12 రోజులలో చేస్తుంది. Q సేదులు 16 రోజులలో చేస్తుంది. అయితే Q సేదుల పూర్తి చేసేందుకు P మేము ఎన్ని రోజులు ఆవిష్కరించాడు?

(1) 4
(2) 5
(3) 6
(4) 7

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 102  Question Id : 6672694885  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(i) Arithmetical Ability

The length of a plot is 5 times its breadth. A playground measuring 500 sq.m in occupied by one fourth of the total area of the plot. The length of the plot in meters is:

(1) 80
(2) 100
(3) 120
(4) 125
(i) Arithmetical Ability

Area of the given figure.

\[ 3m \]

\[ 6m \]

\[ 6m \]

\[ 6m \]

(1) \( 18 + (1 + \pi) \)

(2) \( 18 + (2 + \pi) \)

(3) \( 18 + (1 + 2\pi) \)

(4) \( 36(1 + \pi) \)

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.
(i) Arithmetical Ability

What is the volume of a cube (in cu.cms) whose total surface area in 726 sq cms?

(మొత్తం మొత్తం) ఎంత?

(1) 1231
(2) 1321
(3) 1331
(4) 1728

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
The length, breadth and the height of a cuboid are in the ratio 6:5:4 and its total surface area is 33,300 sq.m. What is the length of the cuboid (in meters)?

33,300 sq.m యొక్క పొడవు, వెడల్పు మరియు ఎత్తు (మీ.బి.లంగా) ఎంత?

(1) 60
(2) 75
(3) 85
(4) 90
(i) **Arithmetical Ability**

అంకేంక కృతిత్వ

If the length and breadth of a rectangular plot area 120m and 76m respectively, then the cost of fencing it at Rs.8 per metre (in Rs) is:

ప్రతి విస్తారానికి 120 మీ. 76 మీ. బాధితం ఉండాలనే, దానిని పంచడానికి సమీకరణం కలుగును 8 రూపాణి పై మీ. (స్థానం).

(1) 3136
(2) 3130
(3) 3124
(4) 3118

Options:
1. ☑️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(i) Arithmetical Ability

అధికయోగ శక్తి

The area (in sq.cm) of a regular hexagon of side 4cm is:

4 సంమైన అడుగు చతుర్భుజం అధికయోగ శక్తి (సంమైన అడుగు)

(1) \(16\sqrt{3}\)
(2) \(24\sqrt{3}\)
(3) \(24\sqrt{2}\)
(4) \(16\sqrt{2}\)
Arithmetical Ability

Two equal cubes of side of length 18 cm are joined together to form a cuboid. Then the total surface area of this cuboid (in sq.cm) is:

\[ A = 2(lwh + l^2 + w^2) \]

where \( l = 18 \) cm, \( w = 18 \) cm, and \( h = 36 \) cm (since it's a cube). Substituting these values:

\[ A = 2(18 \times 18 \times 36 + 18^2 + 18^2) \]

\[ A = 2(18 \times 18 \times 36 + 324 + 324) \]

\[ A = 2(18 \times 18 \times 36 + 648) \]

\[ A = 2(2916 + 648) \]

\[ A = 2(3564) \]

\[ A = 7128 \]

So, the total surface area is 7128 sq.cm. Among the given options:

(1) 2430
(2) 3240
(3) 4860
(4) 7290

Correct Option: (4) 7290

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Arithmetical Ability

\( \{ x : |8 - 4x| > 12 \} = \)

\[ 8 - 4x > 12 \]

\[ -4x > 4 \]

\[ x < -1 \]

or

\[ 8 - 4x < -12 \]

\[ -4x < -20 \]

\[ x > 5 \]

So, the solution set is

\( (-\infty, -1) \cup (5, \infty) \)

Options:
1. \((-\infty, -1) \cup (6, \infty)\)
2. \((-\infty, -1) \cup (5, \infty)\)
3. \((-1, 5)\)
4. \((1, 5)\)
(i) Arithmetical Ability

If \( 5x + 7 = 12 \pmod{18} \), then the smallest integral value of such an \( x \) is:

\[
5x + 7 = 12 \pmod{18}
\]

1) 19
2) 17
3) 13
4) 15

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 2
Sub-Section Id: 667269493
Question Shuffling Allowed: Yes

Question Number : 111  Question Id : 6672694894  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(ii) Algebraic and Geometrical Ability

If \( p, q \) are any two statements, the negation of the statement
\[
\left( \left( \sim p \lor q \right) \land \left( p \lor \sim q \right) \right) \lor \left( p \land q \right)
\]
is:

\[
\left( \sim p \lor q \right) \land \left( p \lor \sim q \right) \lor \left( p \land q \right)
\]

Options:
1. \( (p \lor q) \land (\sim p) \lor (\sim q) \)
2. \( (p \land q) \lor (\sim p) \land (\sim q) \)
3. \( (p \land q) \land (\sim p) \lor (\sim q) \)
4. \( (p \lor q) \land (\sim p) \land (\sim q) \)

Question Number : 112  Question Id : 6672964895  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(ii) Algebraic and Geometrical Ability

For any two statements \( p, q \) a tautology among the following is:

\[
\begin{align*}
(1) & \quad p \lor \neg(p \land q) \\
(2) & \quad (p \lor q) \Rightarrow p \\
(3) & \quad \neg(p \land q) \Rightarrow p \\
(4) & \quad \neg(p \land q) \Rightarrow \neg p
\end{align*}
\]

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

Question Number: 113  Question Id: 6672694896  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0
Algebraic and Geometrical Ability

Let \( A, B \) be subsets of a set \( X \) and let \( n(A) \) denote the number of elements in \( A \). If \( n(A) = 15, n(A \cap B) = 4, n(A \cup B) = 21 \) then \( n(B - A) = \)

\[
n(A) = 15, n(A \cap B) = 4, n(A \cup B) = 21 \text{ hence, } n(B - A) =
\]

(1) 4
(2) 6
(3) 10
(4) 14

Options:
1. 1
2. 2
3. 3
4. 4
(ii) Algebraic and Geometrical Ability

If a set $X$ has four elements, then the number of relations on $X$ that are symmetric is: $\infty$

(1) $2^{16} - 2^6$

(2) $2^{10}$

(3) $2^6$

(4) $2^{16} - 2^{10}$

Options:
1. ✓ 1
2. ✓ 2
3. ✓ 3
4. ✓ 4
(ii) **Algebraic and Geometrical Ability**

Let \( R = \{(m, n) \in \mathbb{N}^2 : m + n \text{ is even}\} \). Then the relation \( R \) on \( \mathbb{N} \) is:

\[
R = \{(m, n) \in \mathbb{N}^2 : m + n \text{ is even}\}
\]

1. Reflexive only
2. Reflexive and symmetric but not transitive
3. An equivalence relation
4. Symmetric only

Options:
1. ✔ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

A line $l$ which makes equal intercepts with the coordinate axes, passes through the point $(3, -4)$. Then it also passes through the point:

1. $(5, -6)$
2. $(-6, 7)$
3. $(-3, 4)$
4. $(-2, 3)$

Options:
1. ✅ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
If \( A(2, -3), B(3, 4) \) and \( C(-1, 5) \) are vertices of a triangle, then the length of median through \( A \) is:

\[ A(2, -3), B(3, 4) \text{ and } C(-1, 5) \text{ మరియుకొనంలే ఒక విభూతి } A \text{ నుండి విస్తీర్ణము అండు మేడను లే దైర్యను నియంత్రించడానికి ఉంటుంది. \]

(1) \[ \frac{15}{2} \]

(2) \[ \sqrt{\frac{229}{4}} \]

(3) \[ \sqrt{\frac{219}{4}} \]

(4) \[ \frac{13}{2} \]
(ii) **Algebraic and Geometrical Ability**

If \( \sin \theta = \frac{5}{13} \) and \( \theta \) is not in the first quadrant, then \( \sec \theta + \tan \theta = \)

\[
\sin \theta = \frac{5}{13} \text{ cycle}. \theta \text{ \(
\) is not in the first quadrant.} \quad \text{sec} \theta + \tan \theta =
\]

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

(2) \( \frac{12}{13} \)

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

(4) \( \frac{13}{12} \)

Options:

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

---

Question Number : 119  Question Id : 6672694902  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(ii) **Algebraic and Geometrical Ability**

\[
\sec \theta - \tan \theta = x \Rightarrow \frac{1 + x^2}{1 - x^2} = \]

(1) \( \sin \theta \)

(2) \( \csc \theta \)

(3) \( \cos \theta \)

(4) \( \cot \theta \)

Options:
(ii) Algebraic and Geometrical Ability

\[ A + B = \frac{\pi}{4} \Rightarrow (1 + \tan A)(1 + \tan B) = \]

Options:
1. 1
2. 2
3. 0
4. -1
Algebraic and Geometrical Ability

The angles of elevation of a tower from the top and bottom of a building of height 30 meters are 30° and 60° respectively. Then the height of the tower (in meters) is:

30°, 60° వచ్చే వేరు దృశ్యాలు ఉన్నాయి. దృశ్యాల్లో హిమాలా ద్వారిలో నిలిచిన వేరు రెండు పైలు మరియు మూడి మంది ఉన్నాయి.

30°, 60° వచ్చే వేరు దృశ్యాలు ఉన్నాయి. దృశ్యాల్లో హిమాలా ద్వారిలో నిలిచిన వేరు రెండు పైలు మరియు మూడి మంది ఉన్నాయి.

(1) 45
(2) 60
(3) 75
(4) 90

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

\[ x + \frac{1}{x} = 5 \Rightarrow x^3 + \frac{1}{x^3} = \]

(1) 125
(2) 110
(3) 90
(4) 105

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✓ 4

Question Number : 123  Question Id : 6672694906  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

\[ 3x - 4y = 7; \ xy = 5 \Rightarrow 9x^2 + 16y^2 = \]

(1) 120
(2) 144
(3) 169
(4) 196

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✓ 4
(ii) **Algebraic and Geometrical Ability**

The remainder when the polynomial \( 7x^3 + 13x^2 - 19x - 20 \) is divided by \( x + 2 \) is:

\[
7x^3 + 13x^2 - 19x - 20 \text{ ÷ } x + 2 \text{ ने } x + 2 \text{ द्वारा कठीण रूप से है?
}

- (1) 14
- (2) 18
- (3) -14
- (4) -18

Options:

1. ☑️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Algebraic and Geometrical Ability

If a polynomial in \( x \) leaves remainders \(-19, 17\) respectively when divided by \( x + 4 \) and \( x - 5 \), then the remainder it leaves when divided by \( x^2 - x - 20 \) is

\( X \) లా మరియును \( x + 4 \) మరియు \( x - 5 \) ను భాగించి మరింత ఆఫిచర్ పంచి \(-19, 17\) అవుతాయి

మరియు మరింత \( x^2 - x - 20 \) మచ్చికి ఆఫిచర్ పంచు.

(1) \( 3x + 4 \)
(2) \( 3x - 4 \)
(3) \( 4x + 3 \)
(4) \( 4x - 3 \)
(ii) Algebraic and Geometrical Ability

The value of $k$ for which the system $kx + 3y = k - 3$ and $12x + ky = k$ of equations has infinitely many solutions is:

$k = \text{?}$

(1) 4  
(2) 5  
(3) 6  
(4) 7

Options:
1. ✗ 1  
2. ✗ 2  
3. ✓ 3  
4. ✗ 4
(ii) Algebraic and Geometrical Ability

A fraction becomes \( \frac{4}{5} \) if 1 is added to both its numerator and denominator while it becomes \( \frac{1}{2} \) if 5 is subtracted from its numerator and denominator. The fraction is

(1) \( \frac{5}{11} \)

(2) \( \frac{6}{11} \)

(3) \( \frac{7}{9} \)

(4) \( \frac{7}{10} \)
(ii) Algebraic and Geometrical Ability

If the sum of first 21 terms of an arithmetic progression is 609, then the 11th term of progression is

(1) 23
(2) 25
(3) 27
(4) 29

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
(ii) Algebraic and Geometrical Ability

The harmonic mean of \( \frac{1}{x} \) and \( \frac{1}{y} \) is

\[ \frac{1}{x} + \frac{1}{y} \]

The reciprocal of average of \( x \) and \( y \)

1. the reciprocal of average of \( x \) and \( y \)
   
2. product of \( x \) and \( y \)
   
3. the average of \( x \) and \( y \)
   
4. the reciprocal of the sum of \( x \) and \( y \)

Options:

1. ✔️ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

అంధ్రాలు జ్యోతిరి సాధనాలు

The coefficient of $x^{12}$ in the expansion of 

$$(x-1)(x-2)(x-3) \ldots \ldots (x-13)$$

is

$$(x-1)(x-2)(x-3) \ldots \ldots (x-13)$$ అదే పదం $x^{12}$ మూలం కలిగింది.

(1) -78
(2) 78
(3) -91
(4) 91

Options :
1. **1
2. **2
3. ✓ 3
4. **4

Question Number : 131 Question Id : 6672694914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

అంధ్రాలు జ్యోతిరి సాధనాలు

The sum of all the coefficients in the expansion of 

$$(1-2x+3x^2)^9$$

is

$$(1-2x+3x^2)^9$$ మూలం అదే పదం ఎత్తిది మూలం.

(1) $4^9$
(2) $2^{11}$
(3) $2^9$
(4) 0
(ii) **Algebraic and Geometrical Ability**

\[
A = \begin{bmatrix}
1 & 1 & 1 \\
1 & 1 & 1 \\
1 & 1 & 1
\end{bmatrix} \Rightarrow A^{2019} =
\]

(1) \(3^{2020}A\)
(2) \(3^{2019}A\)
(3) \(3^{2018}A\)
(4) \(3^{2017}A\)
(ii) Algebraic and Geometrical Ability

\[
A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}, \quad B = \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix} \Rightarrow A^{99} B^{100} + B^{99} A^{100} =
\]

(1) \( A+B \)
(2) \( A-B \)
(3) \( AB \)
(4) 0

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 134 Question Id : 6672694917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

(ii) Algebraic and Geometrical Ability

\[
\lim_{x \to 0} \frac{\sin x - x}{x^3} =
\]

(1) \( \frac{1}{3} \)
(2) \( -\frac{1}{3} \)
(3) \( \frac{1}{6} \)
(4) \( -\frac{1}{6} \)
(ii) Algebraic and Geometrical Ability

If \( y = x \sin x \), then at \( x = \frac{\pi}{2} \), \( \frac{dy}{dx} = \)

\( y = x \sin x \) \text{ at } x = \frac{\pi}{2} \text{ then } \frac{dy}{dx} = \)

\begin{align*}
(1) & \quad \frac{\pi}{2} \\
(2) & \quad 1 \\
(3) & \quad 0 \\
(4) & \quad \frac{\pi}{4}
\end{align*}

Options :

1. ✗ 1
2. ☑ 2
3. ✗ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

In a triangle $ABC$, $A = B = C$. The bisectors of the angles $B$ and $C$ intersect at $D$. Then $\angle BDC =$

(1) $30^\circ$
(2) $60^\circ$
(3) $90^\circ$
(4) $120^\circ$

Options:
1. $\ast$ 1
2. $\ast$ 2
3. $\ast$ 3
4. $\checkmark$ 4
(ii) Algebraic and Geometrical Ability

If the diagonals of a rhombus are 9 cm and 12 cm, then the perimeter of the rhombus (in cm) is:

(1) 30
(2) 21
(3) 32
(4) 28

Options:
1. 1
2. 2
3. 3
4. 4
Algebraic and Geometrical Ability

Let $P$ be an external point to a circle and $PT$ be a tangent drawn from $P$ meeting the circle at $T$. If $AB$ is a chord of the circle such that $A$, $B$, $P$ are collinear, $PT = 5$ cm and $PB = 4$ cm then $PA = \text{? cm}$

(1) 6 cm 
6 см.

(2) 6.25 cm 
6.25 см.

(3) 6.5 cm 
6.5 см.

(4) 6.75 cm 
6.75 см.

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
(ii) Algebraic and Geometrical Ability

If the area of the triangle with vertices (1, 2), (2, 3) and (x, 4) is 40 sq. units then the value of |x - 3| is:

(1, 2), (2, 3), (x, 4) షాంబాం నాల త్రిమాధాన వైపులు 40 చ.యంత్రాలు అవుతుంటాయి.

|x - 3| వలెంచింది.

(1) 70
(2) 80
(3) 85
(4) 90

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Algebraic and Geometrical Ability

Area (in sq. units) of the quadrilateral $ABCD$ with vertices $A(2, -1)$, $B(4, 3)$, $C(-1, 2)$, $D(-3, -2)$ is:

$A(2, -1), B(4, 3), C(-1, 2), D(-3, -2)$ నియంత్రితమైన చతురస్రం $ABCD$

(1) 30
(2) 21
(3) 22
(4) 18

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

Sub-Section Number: 3
Sub-Section Id: 667269494
Question Shuffling Allowed: Yes
(iii) Statistical Ability

 Arithmetic mean of 56, 57, 58, ..., 100 is:

56, 57, 58, ..., 100  ఎంపానిక సంఖ్యలు

(1) 78
(2) 80
(3) 82
(4) 76

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
(iii) Statistical Ability

స్టాటిస్టికల్ అబిలి

The median of some observations is 12. If two additional observations 10, 15 are added to these observations, then the median of the new series of observations is:

ఒకపైని అంశాలు నిమ్నలో 12 ను మైదానంపండించినా 10, 15 అంటే ఎంతుంద్యున్నాయి?

(1) 11  
(2) 14  
(3) 13  
(4) 12

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✅ 4

Question Number : 143  Question Id : 6672694926  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
(iii) Statistical Ability

If the arithmetic mean of some observations is 26.5 and their median is 25.4, then their mode is:

Standard deviation of first $2n$ natural numbers is:
(iii) Statistical Ability

For the ten observations $x_1, x_2, \ldots, x_{10}$ it is given that $\sum_{i=1}^{10} x_i = 12$

and $\sum_{i=1}^{10} x_i^2 = 18$. Then the standard deviation of the data is:

\[ \sqrt{\frac{\sum_{i=1}^{10} x_i^2}{10}} \]

\[ = \sqrt{\frac{18}{10}} \]

\[ = \sqrt{1.8} \]

Options:

1. 1
2. 2
3. 3
4. 4
(iii) Statistical Ability

If the sum of the squares of the deviations of ranks of two students in seven subjects is 21, then the coefficient of rank correlation is:

汉లో ప్రత్యేక సంఖ్యల సమాధానం చేయడానికి మంచి సంఖ్య 21 అంటారు

నిమిషంలో గమనం గానా.

1) \(\frac{3}{8}\)
2) \(\frac{5}{8}\)
3) \(\frac{7}{8}\)
4) \(\frac{1}{8}\)

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
(iii) Statistical Ability

A problem in mathematics is given to three students $P$, $Q$ and $R$ whose chances of solving it are $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{2}$ respectively. Then the probability that the problem will be solved is:

\[
\frac{1}{3} \times \frac{1}{4} \times \frac{1}{2} = \frac{1}{24}
\]

Options:

1. \[\frac{2}{3}\]
2. \[\frac{3}{4}\]
3. \[\frac{4}{5}\]
4. \[\frac{5}{6}\]
(iii) Statistical Ability

Four dice are thrown simultaneously. The probability that all of them show the same numbers is:

\[
\text{(1)} \quad \frac{1}{6^4} \\
\text{(2)} \quad \frac{1}{6^3} \\
\text{(3)} \quad \frac{1}{720} \\
\text{(4)} \quad \frac{1}{1440}
\]

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
(iii) Statistical Ability

If two cards are drawn at random from a well shuffled pack of 52 cards, then the probability of getting both cards from same suit is:

(1) \( \frac{1}{17} \)
(2) \( \frac{2}{17} \)
(3) \( \frac{3}{17} \)
(4) \( \frac{4}{17} \)

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 150  Question Id : 6672694933  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
(iii) Statistical Ability

When two dice are rolled at random, then the probability of getting same prime number on both dice is

$$\frac{1}{12}$$

$$\frac{5}{36}$$

$$\frac{1}{9}$$

$$\frac{7}{36}$$

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Choose the correct meaning for the word given:

**Slipshod**

(1) slippers  
(2) careless  
(3) careful  
(4) cunning

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

Choose the correct meaning for the word given:

**Recalcitrant**

(1) lesson  
(2) recall  
(3) sympathetic  
(4) disobedient

Options:
1. * 1  
2. ✗ 2  
3. ✗ 3  
4. ✔ 4
Choose the correct meaning for the word given:

**Placid**

1. turbulent
2. tranquil
3. agitated
4. troubled

Options:
1. ❌ 1
2. ✔ 2
3. ❌ 3
4. ❌ 4

Choose the correct meaning for the word given:

**Frugal**

1. economical
2. financial
3. monetary
4. industrial

Options:
1. ✔ 1
2. ❌ 2
3. ❌ 3
4. ❌ 4
Choose the correct meaning for the word given:

**Conciliate**

1. change
2. rouse
3. offend
4. placate

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

---

Choose the correct meaning for the word given:

**Wholesome**

1. delicate
2. gaunt
3. unsound
4. healthy

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

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Sub-Section Number: 2
Sub-Section Id: 667269496
Question Shuffling Allowed: Yes

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Sub-Section Number: 2
Sub-Section Id: 667269496
Question Shuffling Allowed: Yes
Fill in the blank choosing the correct word

A printed list of questions to be answered by a number of people is called __________

1. a survey
2. an agenda
3. a menu
4. a questionnaire

Options:
1. √
2. 
3. 
4. 

Question Number : 158  Question Id : 6672694941  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0

Fill in the blank choosing the correct word

Many would not prefer to live a __________ life like that of a hermit.

1. solitary
2. solitude
3. solo
4. solitaire

Options:
1. √
2. 
3. 
4. 

Question Number : 159  Question Id : 6672694942  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Fill in the blank choosing the correct word

The old people in the village still ________ the old traditions.

(1) observe
(2) ignore
(3) discourage
(4) forget

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Fill in the blank choosing the correct word

Although he is shy it certainly has not ________ his career in any way

(1) helped
(2) encouraged
(3) impeded
(4) impelled

Options:
1. ✗ 1
2. ✓ 2
3. ✓ 3
4. ✗ 4

Sub-Section Number: 3
Sub-Section Id: 667269497
Question Shuffling Allowed: Yes
Choose the correct answer

A storage area in memory that stores information temporarily while in use is known as

(1) Buffer
(2) Bug
(3) Capacity
(4) Check box

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

Pictorial representation of programming procedure is called

(1) Algorithm
(2) Program
(3) Flowchart
(4) Executive file

Options :
1. ✔ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4
Choose the correct answer

An inter connection of two or more computing devices is generally known as

(1) Web page
(2) Server
(3) Network
(4) Data communication

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Choose the correct answer

Which of the following is not a guided transmission media?

(1) Fiber optic cables
(2) Twisted pair cables
(3) Coaxial Cables
(4) Radio waves

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
Choose the correct answer

The storing and accessing of data and programs over the internet instead of on another type of hardware drive is known as

(1) Cloud computing

(2) Compression

(3) Content

(4) Chip

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer

When do you conduct an induction of a new employee in an organisation?

(1) Before recruitment

(2) Before Selection

(3) Before completion of probation period

(4) Before assigning the job

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
Choose the correct answer

A report of accounts that represents ending balance of each account in the list at the end of the accounting period is known as

(1) Account Receivables
(2) Trial Balance
(3) Allocation Rate
(4) Asset Stripping

Choose the correct answer

The economic concept that each consecutive unit of good consumed or resource used, is less useful or productive than the preceding one is known as

(1) Diminishing Returns
(2) Deflation
(3) Depression
(4) Discounting
Choose the correct answer

One of the assumptions in economics is that human wants are

(1) scarce
(2) constrained by resource
(3) seasonal
(4) unlimited

Choose the correct answer

A legal document by which a bank lends money at an interest in exchange for the title of a debtor’s property is known as

(1) Mortgage
(2) Premium
(3) Loan
(4) Credit
Choose the correct answer

A: ‘Look at what you have done! You have knocked me down with your cycle.”
B: “Well you should be more careful while crossing the road.”
‘B’ is

(1) apologetic
(2) furious
(3) unapologetic
(4) angry

Choose the correct answer

A: “My friend went through many ups and downs before he could reach the present stage.”
B: “Patience has its rewards, after all.”
‘B’ is

(1) hostile
(2) philosophical
(3) derogatory
(4) unfriendly
Choose the correct answer:

Change the following sentence into active voice: My pocket has been picked.

(1) Someone has picked my pocket
(2) Someone have picked my pocket
(3) Someone picks my pocket
(4) Someone has been picking my pocket

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Choose the correct answer:

“You had better hold your tongue.” The underlined expression means

(1) keep the tongue between the teeth
(2) take back what is said
(3) not mince words
(4) not speak

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✔ 4
Choose the correct answer

“Membership in the sports club can cost you an arm and a leg.” The underlined expression means, it is

(1) physically strenuous
(2) exhaustive
(3) dangerous
(4) expensive

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Choose the correct answer

There is so much red tape involved in getting official permits. The underlined phrase means

(1) cost
(2) risk
(3) bribe
(4) delay

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
Choose the correct answer

“Nobody appreciated the manager throwing his weight around”. The underlined expression means

(1) losing weight
(2) giving up the authoritative position
(3) wielding authority in a heavy-handed way
(4) losing the authority and power

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Fill in the blanks with the appropriate phase/verbs/preposition:

I must protest _____ this course of action

(1) at
(2) by
(3) from
(4) along

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Fill in the blanks with the appropriate phase/verbs/preposition:

He delights _________ being helpful.

(1) in
(2) over
(3) after
(4) through

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Fill in the blanks with the appropriate phase/verbs/preposition:

___________ being a gentleman, he was also a reputed singer.

(1) Beside
(2) Besides
(3) Although
(4) Despite of

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
Fill in the blanks with the appropriate phase/verbs/preposition:

I _________ waiting here for the last three hours.

(1) am
(2) have been
(3) was
(4) had been

Options:

1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 182  Question Id : 6672694965  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

I wish she ____________ dead.

(1) were
(2) was
(3) had
(4) has

Options:

1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 183  Question Id : 6672694966  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
Fill in the blanks with the appropriate phase/verbs/ preposition:

You are walking too fast. I can’t __________ with you.

1. keep up
2. make up
3. bring up
4. get by

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

Fill in the blanks with the appropriate phase/verbs/ preposition:

I love to __________ the stars in the sky at night.

1. look out
2. look up at
3. look forward
4. look away

Options :
1. ✗ 1
2. ✔️ 2
3. ✗ 3
4. ✗ 4
Fill in the blanks with the appropriate phase/verbs/preposition:

A crisis can ____________ the best in someone.

(1) bring up
(2) bring out
(3) bring over
(4) bring round

Options:
1. 1
2. ✅ 2
3. ✗ 3
4. ✗ 4
Read the following passage and answer questions

To avoid the various foolish opinions to which mankind is prone, no superhuman genius is required. A few simple rules will keep you, not from error, but from silly error!

If the matter is one that can be settled by observation, make the observation yourself. Aristotle could have avoided the mistake of thinking that women have fewer teeth than men, by the simple device of asking Mrs. Aristotle to keep her mouth open while he counted. He did not do so because he thought he knew. Thinking that you know when in fact you don’t is a fatal mistake to which we are all prone. I believe myself that hedgehogs eat black beetles, because I have been told that they do; but if I were writing a book on the habits of hedgehogs I should not commit myself until I had seen one enjoying this unappetizing diet. Aristotle, however, was less cautious. Ancient and medieval authors knew all about unicorns; not one of them thought it necessary to avoid dogmatic statements about them because he had never seen one of them.

Sub questions

Question Number : 186  Question Id : 6672694970  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0

What do humans require to avoid being dogmatic?

(1) super human genius
(2) open-mindedness
(3) a few simple rules
(4) a firm belief in themselves

Options :
1. ✓
2. ✓
3. ✓
4. ✓

Question Number : 187  Question Id : 6672694971  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0
What was a common personality trait in Aristotle?

(1) He was right about his beliefs
(2) He did not verify his beliefs
(3) He was always obstinate
(4) He never made any mistakes

What does the author believe in?

(1) Intention
(2) Dogmatism
(3) Verification
(4) Ignorance

What would the author do if he had to write a book on the eating habits of hedgehogs?

(1) see hedgehogs eating black beetles
(2) believe that hedgehogs ate black beetles
(3) write about hedgehogs eating black beetles
(4) read about hedgehogs eating black beetles.
According to the author, what did the ancient and medieval authors feel about their observations?

(1) It was foolproof
(2) It was cautious
(3) It was doubtful
(4) It was verified
Read the following passage and answer questions

Most managers don’t do things in the order of priority that they have rationally selected. They do things according to feelings. That’s how their day is run. Professional managers fall into two categories. There are doers and there are feelers. Doers do what needs to be done to reach a goal that they themselves have set. They come to work having planned out what needs to be done. Feelers, on the other hand, do what they feel like doing. Feelers take their emotional temperature throughout the day, checking in on themselves, figuring out what they feel like doing right now. Their lives, their outcomes, their financial security are all dictated by the fluctuation of their feelings. Their feelings will change constantly, of course, so it’s hard for a feeler to follow anything through to a successful conclusion. By contrast, a doer has high self-esteem. A doer enjoys many satisfactions throughout the day, even though some of them were preceded by discomfort. A feeler is almost always comfortable, but never really satisfied. A doer experiences more and more power every year of his life. A feeler feels less and less powerful as the years go on.

Sub questions

What is the major shortcoming in most managers?

1. they are inactive
2. they do not act rationally
3. they are dependent on others
4. they are foolish

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Who is a ‘feeler’?

(1) a person with a goal
(2) a person who plans his day
(3) a person who is a slave to his emotions
(4) a person who enjoys life

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

What is the meaning of “emotional temperature”?

(1) constant changes in one’s feelings
(2) the temperature of the physical body
(3) intensity of one’s emotions
(4) attitude to life

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
What does a ‘doer’ have?

(1) plenty of work
(2) high self-esteem
(3) a loss of confidence
(4) others to work with

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

What does a ‘feeler’ experience as the years go by?

(1) a sense of achievement
(2) a sense of failure
(3) a sense of satisfaction
(4) a sense of happiness

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Sub-Section Number: 8
Sub-Section Id: 667269502
Question Shuffling Allowed: Yes

Question Id: 6672694981 Question Type: COMPREHENSION Sub Question Shuffling Allowed: Yes Group Comprehension Questions: No
Question Numbers: (196 to 200)
Read the following passage and answer questions

It requires a sense of superiority assurance, and self-confidence, to write about bores at all, except as one of them. But since a true bore is always unconscious of his ‘borishness’, and indeed usually thinks of himself as the most companionable of men, to write as one of them is to acquit oneself of the stigma.

Bores are happy largely because they have so much to tell and they can find people to tell it to. The tragedy is they can always find their listeners, me almost first. And why can they? Why can even notorious bores always be sure of an audience? The answer is the ineradicable kindness of human nature. Few men are strong enough to say ‘For Heaven’s sake go away, you weary me’

One of the bore’s greatest assets is his simplicity which disarms. Astute crafty men are seldom bores; very busy men are seldom bores.

Sub questions

Question Number : 196  Question Id : 6672694982  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Correct Marks : 1  Wrong Marks : 0
Which quality is NOT required to write about bores?

(1) Kindness
(2) Confidence
(3) A sense of superiority
(4) Belief in oneself

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Which of the following is NOT true of a true bore?

(1) being conscious of his boorishness  
(2) being happy by and large  
(3) finding their listeners  
(4) sure of an audience

Options :
1. ✅ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Why are bores happy?

(1) they love their audience  
(2) they have never faced any tragedy in their lives  
(3) they always find their listeners  
(4) they are loved by everyone

Options :
1. ✗ 1
2. ✗ 2
3. ✅ 3
4. ✗ 4

Which quality stands out in a bore?

(1) Astuteness  
(2) Cunningness  
(3) Simplicity  
(4) Busyness

Options :
What does ‘ineradicable’ mean?

(1) extreme
(2) feeling
(3) shameless
(4) deep-rooted