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 2018 24th May 2018 Shift 1
Subject Name: TS ICET 2018
Creation Date: 2018-05-24 15:20:48
Duration: 150
Total Marks: 200
Display Marks: No
Calculator: None
Magnifying Glass Required?: No
Ruler Required?: No
Eraser Required?: No
Scratch Pad Required?: No
Rough Sketch/Notepad Required?: No
Protractor Required?: No
Display Number Panel: Yes
Group All Questions: No

Question Number : 1  Question Id : 9126063273  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

What is the cost of leveling the rectangular field?

I. The dimensions of the field are 200 m x 150 m.

II. The cost of leveling 1 sq m is Rs. 15.

(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.
Data Sufficiency

Note: This 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 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.

$n, m$ are integers. Is $n + m = 0$?

$n, m$ ఎందుకు ఒక్కొక్కు. $n + m = 0$ ఎందుకు?

I. $n^2 = m^2$

II. $nm < 0$
Options:
1. ✗ 1
2. ✗ 2
3. ✔️ 3
4. ✗ 4

Question Number : 3  Question Id : 9126063275  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

What is the cost price of a chair?

What is the cost price of a chair?

I. 2 chairs and 3 tables cost Rs. 10000.

II. 4 chairs and 6 tables cost Rs. 20000.
Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 4  Question Id: 9126063276  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is the average weight of a student in the class?

I. The total weight of all the students in the class is 150 kgs.

II. The number of boys in the class is equal to the number of girls.
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 5  Question Id : 9126063277  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

A 5-term sequence is 1, a, b, c, 9. What is the value of c?

- The second term is 3.
- The third term is twice the first.

I. The second term is 3.
II. The third term is twice the first.
Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 6  Question Id: 9126063278  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is the average speed of the train?

What is the average speed of the train?

I. The length of the train is 100 m.
   ప్రాంతం పిండి 100 మీ. క్షమిసినం.

II. The train travels 246 km in 3 hour time.
   ప్రాంతం మధ్యమం 246 కి.మీ. 3 పాలకతో నడిచింది.
Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 7  Question Id: 9126063279  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is the rate of simple interest?

I. Principal is Rs. 560.
   हదసం 560.

II. Amount Rs. 650.
    పరిసంఖ్య 650.

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Data Sufficiency

Note: This 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 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.

Are two triangles ΔABC and ΔDEF similar?

Are ΔABC and ΔDEF similar?

I. The perimeters of the two triangles are equal.

II. ΔABC and ΔDEF are equilateral.
Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 9  Question Id : 9126063281  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

How many girls are there in the class?

I. For every 4 girls who learn driving a car, one learns swimming also.

II. 24 girls in the class learn driving a car and 16 learn swimming.
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number: 10  Question Id: 9126063282  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is the amount invested by A in partnership firm in which B and C are partners?

B, C కంపెనీమీద పార్టెనర్లుగా అంటే ఏ పార్టెనర్ రోజటికి మందా రావు?

I. The investment of A is Rs. 50000 more than that of B.

B లోకి A పెట్టడం రూ. 50000 అందుపై.

II. The investment of C is Rs. 10000 less than that of A.

A లోకి C పెట్టడం రూ. 10000 అందుకు.
Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ☑ 4

Question Number: 11  Question Id: 9126063283  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

మాదానికి:

మాదానికి మీరు ఎందుకు నిర్ణయించారు. మీరు ఇది ఇని ఆధారాన్ని పట్టించారు. ఇది ఒక ప్రశ్నను పట్టించారు. మరియు ఇది కాకుండా ప్రతి ప్రశ్నను పట్టించారు. (1) లో పట్టించారు. (2) లో పట్టించారు. (3) లో పట్టించారు. (4) లో పట్టించారు.

In how many days A and B together can finish the work?

A. B యొక్క మొత్తం సమయం కేవలం అవసరం?

I. A alone can finish the work in 12 days.
   A వేసే యొక్క 12 దినాలు సమయం అవసరం.

II. B needs 12 days more than A to finish the work alone.
   B వేసే యొక్క 12 దినాలు సమయం అవసరం అవసరం.
Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 12  Question Id : 9126063284  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

What percent of 20 is \(x\)?

20 is \(x\) percent.

I. 150\% of \(x\) is less than 15.

\[
15 < \frac{150}{100} \times x
\]

II. \(x\) is 10\% of 45.

\[
\frac{x}{45} = \frac{10}{100}
\]

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Data Sufficiency

Note: This 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 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.

In the adjacent figure is AB parallel to CD?

I. M is the midpoint of EF.

II. $\angle x = \angle y$.
Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 14  Question Id: 9126063286  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes
Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

In the adjacent figure PQ and PR are tangents to a circle with center C. What is the radius of the circle?

I. \( PQ = 10 \) cm.
   \( PQ = 10 \) cm

II. \( PB = 18 \) cm.
   \( PB = 18 \) cm
Options:

1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 15  Question Id: 9126063287  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is \( \angle C \) in the figure?

\[
\begin{align*}
\text{I.} & \quad \angle A = 50°. \\
\text{II.} & \quad \text{CD is parallel to AB.} \\
& \quad \text{AB and CD are parallel.}
\end{align*}
\]
Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 16  Question Id: 9126063288  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is the slope of the line ‘l’?

6. What is the slope of ‘l’?

I. ‘l’ passes through (0, 0).

II. ‘l’ is perpendicular to y-axis.
Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 17  Question Id : 9126063289  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

What is the value of the integer n?

Number n equals how?

I. \(1 + n^3 = 0\)

II. \(n^4 = 1\)
Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 18  Question Id : 9126063290  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 question. 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.

Question:

Is the positive integer n divisible by 720?

720 యొక్క వాటికి న భాగం ఉండటం కోసం?

I. n is divisible by 24 and 30.

24 యొక్క బాహ్యం 30 యొక్క బాహ్యం ఉండటం కోసం.

II. n = (a+1)(a+2)(a+3)(a+4)(a+5) for some positive integer a.

a యొక్క వాటికి న = (a+1)(a+2)(a+3)(a+4)(a+5) ఉండటం కోసం.
Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number: 19  Question Id: 9126063291  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Data Sufficiency

Note: This 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 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.

What is the percentage of defective items produced in factory?

What is the percentage of defective items produced in factory?

I. The total number of defective items is 250.
II. The ratio of defective items to non-defective items is 250 : 6250.

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Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 20  Question Id : 9126063292  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Data Sufficiency

Note: This 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 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.

Q1: Is the integer n>7 composite?

I. n leaves remainders 7 when divided by 84.
   \[ n \equiv 7 \mod 84 \]

II. n is relatively prime to 84.
   \[ 84 \text{ and } n \text{ are relatively prime}. \]
Problem Solving — Sequence and Series

Note: The following question has 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.

8 : 121 :: ____ : 961

(1) 27    (2) 29    (3) 31    (4) 28

Options:
1. * 1
2. * 2
3. * 3
4. ✓ 4
Problem Solving — Sequence and Series

Note: The following question has 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.

LxM : 12x13 :: _______ : 21x23

(1) TxU  (2) UxW  (3) VxX  (4) ZxB

Options :

1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number : 23  Question Id : 9126063295  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Sequence and Series

Note: The following question has 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.

10 : 99 :: 9 :

(1) 88  (2) 80  (3) 82  (4) 91

Options:
1.  
2.  
3.  
4.  

Question Number : 24  Question Id : 9126063296  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Sequence and Series

Note: The following question has 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.

20 : 8000 :: ____ : 27000

(1) 900  (2) $\sqrt{27} \times 100$  (3) 300  (4) 30

Options :

1. ★ 1
2. ★ 2
3. ★ 3
4. ✔ 4
Problem Solving — Sequence and Series

Note: The following question has 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.

BEYOND : YBVLA : : WOULD : ______

(1) TLRIA    (2) TLIRA    (3) ZRXOG    (4) ZXORG

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

Question Number : 26  Question Id : 9126063298  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Sequence and Series

Note: The following question has 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.

25 : ____ : : 81 : 121

(1) 36  (2) 49  (3) 64  (4) 81

Options:

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✓ 4

Question Number : 27  Question Id : 9126063299  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Sequence and Series

Note: The following question has 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.

ఫలితాన్ని: ఏడు కోసం సమూహం పాదాలు లేదు అసాధారణ అని అడగ కావచ్చు (వచనానిబ్బ పరిశీలన). ఏడు కోసం సమూహం
పాదాలను లేదా పరిపాలన కావచ్చు కాడా అంశాల మాత్రమే పరిపాలన ఏడు కోసం సమూహం చేసుకోవడానిని ప్రఖ్యాతం చేస్తాం.

______ : PEOI :: MEAT : QIEX

(1) MEAL (2) LEAK (3) LAKE (4) GOAT

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number : 28  Question Id : 9126063300  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Sequence and Series

Note: The following question has 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.

August : 64 :: ______ : 144

September : 64 :: ______ : 144

(1) July (2) October (3) November (4) December

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

Question Number : 29  Question Id : 9126063301  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Sequence and Series

Note: The following question has 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.

15 : 3150 :: 20 : _____

(1) 5400  (2) 6400  (3) 6800  (4) 7600

Options :
1.  1
2.  2
3.  3
4.  4
Problem Solving — Sequence and Series

Note: The following question has 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.

11 : 69 :: ____ : 1011

Options:
1. 332
2. 323
3. 233
4. 223

Question Number : 31  Question Id : 9126063303  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Note: From the question, pick the odd thing out:

Options:

1. Jagjivanramji: 5/5
2. Ambedkarji: 14/4
3. Nehurji: 14/11
4. Gandiji: 2/10

Question Number: 32  Question Id: 9126063304  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Note: From the question, pick the odd thing out:

అధికారి: దీనికి ముందుగా నిర్ణయించండి:

\[
A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 3 & 5 \\ 0 & 6 & 10 \end{bmatrix},
\]

\[
B = \begin{bmatrix} 3 & 0 & 0 \\ 0 & 1 & 3 \\ 0 & 2 & 6 \end{bmatrix},
\]

\[
C = \begin{bmatrix} 4 & 0 & 0 \\ 0 & 1 & 3 \\ 0 & 2 & 5 \end{bmatrix},
\]

\[
D = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 1 & 2 \\ 0 & 2 & 4 \end{bmatrix}
\]

Options:

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
Note : From the question, pick the odd thing out:

 Docs, నిపుణులకు సమస్యలు తెరిపిస్తాం:

(1) \( f : \mathbb{R} \rightarrow \mathbb{R}; f(x) = x + 1 \)

(2) \( f : \mathbb{R} \rightarrow \mathbb{R}; f(x) = x^2 \)

(3) \( f : \mathbb{R} \rightarrow \mathbb{R}; f(x) = x^3 \)

(4) \( f : \mathbb{R} \rightarrow \mathbb{R}; f(x) = 2x + 3 \)

Options :
1. ⬜ 1
2. ✔ 2
3. ⬜ 3
4. ⬜ 4

Question Number : 35  Question Id : 9126063307  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Note : From the question, pick the odd thing out:

 Docs, నిపుణులకు సమస్యలు తెరిపిస్తాం:

(1) Mysore  (2) Chennai  (3) Mumbai  (4) Bhubaneshwar

కొర్యాల  చென்வாడ  மumbai  ஭ுப్పనేశ్వర

Options :
1. ✔ 1
2. ⬜ 2
3. ⬜ 3
4. ⬜ 4

Question Number : 35  Question Id : 9126063307  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Note: From the question, pick the odd thing out:

(1) 78  (2) 52  (3) 104  (4) 116

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number: 36  Question Id: 9126063308  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical

Note: The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

గాలి: ఎంటి విషయం చెప్పగాను మనముగా విచిత్రణానం. అనంతంగా గాలిము తిరగాను నిర్ణయం చేసాయి.

(10, 12, 11), (14, 16, 15), (18, 20, 19), (22, 24, 23), _______

(1) (26, 27, 28)  (2) (26, 28, 27)

(3) (26, 29, 28)  (4) (26, 28, 29)

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Question Number: 37  Question Id: 9126063309  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical
Note: The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

0.5, 2.0, 4.5, 8.0, 12.5, ____

(1) 16.5  (2) 17.0  (3) 18.0  (4) 19.5

Options:

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Note: The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

Options:

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
Question Number : 39  Question Id : 9126063311  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

**Note**: The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

4. 11, 30, 67, ____

(1) 98  (2) 128  (3) 134  (4) 125

**Options**:
1. ✗ 1
2. ✅ 2
3. ✗ 3
4. ✗ 4

---

Question Number : 40  Question Id : 9126063312  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

**Note**: The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

2. $\frac{9}{2}$, 7, $\frac{19}{2}$, ____

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

**Options**:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✅ 4

---

Question Number : 41  Question Id : 9126063313  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Note : The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

43, 39, 34, 28, _____

(1) 21 (2) 23 (3) 22 (4) 20

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 42  Question Id : 9126063314  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Note : The question follows a definite pattern. Observe the same and fill in the blanks with suitable answers.

196, 16, 144, 36, 100, 64, 64, _____

(1) 8 (2) 16 (3) 32 (4) 100

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 43  Question Id : 9126063315  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Note: The question follows a definite pattern, observe the same and fill in the blanks with suitable answers.

YACE, QSUW, _____, ACEG
(1) IKMO (2) IKOM (3) IMKO (4) IKOM

Options:
1. ✅ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 44  Question Id : 9126063316  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Note: The question follows a definite pattern, observe the same and fill in the blanks with suitable answers.

1, 4, 27, 16, 125, 36, _______
(1) 264 (2) 289 (3) 343 (4) 364

Options:
1. ✗ 1
2. ✗ 2
3. ✅ 3
4. ✗ 4

Question Number : 45  Question Id : 9126063317  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Note: The question follows a definite pattern, observe the same and fill in the blanks with suitable answers.

5, 16, 51, 158, ________

(1) 289   (2) 324   (3) 384   (4) 481

Options:
1. 4
2. 2
3. 3
4. 4
Problem Solving — Data Analysis

Note: An industry selected candidates during the years 2000-2005 in different subjects as given in the following table. Study this table and answer the questions 46 to 48.

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>15</td>
<td>16</td>
<td>18</td>
<td>20</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>Engineering</td>
<td>12</td>
<td>10</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>Commerce</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Agriculture</td>
<td>8</td>
<td>7</td>
<td>9</td>
<td>8</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>Arts</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>40</td>
<td>38</td>
<td>40</td>
<td>42</td>
<td>38</td>
<td>44</td>
</tr>
</tbody>
</table>
What percent of the candidates of Agriculture were selected in the given period?

19.36% (1) 18.38% (2) 20.56% (3) 19.83% (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

What percent of candidates in Engineering were selected in the year 2002?

21.5% (1) 21% (2) 22.5% (3) 22% (4)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

What percent of candidates of Arts were selected on the period 2000-2003?

7.35% (1) 6.25% (2) 6.85% (3) 6.5% (4)

Options:
Problem Solving — Data Analysis

Note: Observe the bar graph showing Indian sales tax rates during 2008 to 2018.

Answer questions numbered 49 to 53.

Sub questions
The percentage of increase in sales tax from 2016 to 2017 is?

2016 సంవత్సరం 2017 సంవత్సరం విత్తన ఉద్ధరణ విస్తరించడానికి మేరకు ఉంది?

(1) 15 (2) 20 (3) 25 (4) 3

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

By what percent the sales tax decreased from 2011 to 2012?

2011 సంవత్సరం 2012 సంవత్సరం విత్తన కొంత కొందు ఉంది?

(1) 1.12 (2) 1.2 (3) 1.25 (4) 1.5

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

The percentage increase in sales tax from the year 2008 to 2018 is:

2008 సంవత్సరం 2018 సంవత్సరం విత్తన ఉద్ధరణ విస్తరించడానికి మేరకు ఉంది?

(1) 44 (2) 45 (3) 46 (4) 47
Sales tax rates were stable and lowest during the period?

Options:

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

What percentage growth of sales tax during 2010-2018?

Options:

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4
Let \( A, B, C \) be sets and \( S = A \cup B \cup C \). For any \( T \subseteq S \) let \( T^\perp = S - T \) and \( n(T) \) denote the number of elements in \( T \). If \( n(A) = 20, n(B) = 21, n(C) = 8, n(A \cup B \cup C) = 35, n(A \cap B \cap C^\perp) = 6, n(B \cap C \cap A^\perp) = 2, n(C \cap A \cap B^\perp) = 4 \) then, \( n(A \cap B \cap C) = \)

A. \( B, C \) యొక్క సమూహాలు, \( S = A \cup B \cup C \) ఎంటర్ సమూహం. అంటే \( T \subseteq S \) లో \( T^\perp = S - T \) ఎంటర్. \( T \) లో ఉన్న సమూహాల సంఖ్య ను \( n(T) \) క్రితంగా సూచించేందుకు. \( n(A) = 20, n(B) = 21, n(C) = 8, n(A \cup B \cup C) = 35, n(A \cap B \cap C^\perp) = 6, n(B \cap C \cap A^\perp) = 2, n(C \cap A \cap B^\perp) = 4 \) ఎంటర్ సమూహాల సంఖ్య ను \( n(A \cap B \cap C) = \)

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

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
In a survey conducted on 50 students who wrote TSICET, 25 want to pursue MBA, 30 want to pursue MCA and 8 want to pursue either MBA or MCA. How many want to pursue both MBA and MCA?

Options:
1. 1
2. 2
3. 3
4. 4
Problem Solving — Coding and Decoding Problems

Note: For the English alphabet A, B, ..., Z, a code is evolved by the following rules:

(i) Keep the Vowels A, E, I, O, U as they are without any change and
(ii) For rest of consonants, each consonant is replaced by the immediate next consonant. (Ex: B→C, D→F, ....... Z→B). The reverse process is followed for decoding.

Using coding rules answer the questions 56 - 60.

What is the code word for ‘WATER’?

‘WATER’ లో క్రిత కండమైనది?

(1) WBVFS  (2) XBVES  (3) XAVES  (4) WAVFS
Question Number : 57  Question Id : 9126063332  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Which word is coded as ‘NOCIME’?

‘NOCIME’ ను కొద్ది చేసేది?

(1) MNBHLDL  (2) MOLIBE  (3) MLBODE  (4) MOBILE

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 58  Question Id : 9126063333  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

What is the code word for ‘KAKATIYA’?

‘KAKATIYA’ కాకతియా కేసు?

(1) LALAUIZA  (2) GAGAQIVA

(3) LBLBRJZA  (4) CBGBQJZA

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
What is the code word for ‘MARKETING’?

‘MARKETING’ ఎందుకంటే మీదు?

(1) NBSLFUJOH      (2) NASLEVIPH
(3) NASKEUJOH      (4) NBTLVJPH

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

What is the code word for ‘FINANCES’?

‘FINANCES’ ఎండు మీదు?

(1) GANDIPET      (2) GJOBODFT
(3) GIQAQDFDT      (4) GIOAODET

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

What is the code word for ‘FINANCES’?

‘FINANCES’ ఎండు మీదు?

(1) GANDIPET      (2) GJOBODFT
(3) GIQAQDFDT      (4) GIOAODET

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
If ‘SQUARE’ is coded as ‘TRVBSF’ then the coded word for ‘RHOMBUS’ is ‘SQUARE’ ᆍ ‘TRVBSF’ ᆍ ‘RHOMBUS’ ᆍ ᆣ ᆣ ᆣ ᆣ ᆣ ᆣ ᆣ?

(1) SINPCVT     (2) SIPNCVT     (3) SNIPCVT     (4) SPINCVT

Options:
1. * 1
2. ✓ 2
3. * 3
4. * 4

If ‘BOMBAY’ is coded as ‘DOPDAB’ then ‘DELHI’ is coded as ‘BOMBAY’ ᆣ ‘DOPDAB’ ᆣ ᆣ ᆣ ᆣ ᆣ ᆣ ‘DELHI’ ᆣ ᆣ ᆣ ᆣ ᆣ ᆣ?

(1) GENCI     (2) GENKI     (3) GENJI     (4) GENLI

Options:
1. * 1
2. ✓ 2
3. * 3
4. * 4
If ‘EKTSD’ is the code word for ‘FLUTE’ then the code word for ‘VIOLIN’ is ‘FLUTE’ అంటే విస్త్రు ‘EKTSD’ అంటే విస్త్రు ‘VIOLIN’ అంటే విస్త్రు?

(1) UNHKHM  (2) UKHKHM  (3) UHKKHM  (4) UHNKHM

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 64  Question Id : 9126063339  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

If ‘SEMINAR’ is coded as ‘RANIMES’ then the code word for ‘MAYTAS’ is ‘SEMINAR’ అంటే ‘RANIMES’ అంటే ‘MAYTAS’ అంటే విస్త్రు విస్త్రు?

(1) SATYAM  (2) TASYAM  (3) ASTYAM  (4) ATSYAM

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 65  Question Id : 9126063340  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
If ‘IDEA’ is coded as ‘9451’ then the code word for ‘IDEAL’ is

‘IDEA’ అంచే ‘9451’ అనేది తో ‘IDEAL’ అంచే ఎందు? 

(1) 945111    (2) 945112    (3) 945113    (4) 945114

After the year 1990 which year has the same calendar as that of 1990?

1990 సంవత్సరాలు అనేది, 1990 సంవత్సరం ఎంది లేదు సంవత్సరం ఎందు? 

(1) 1995    (2) 1996    (3) 2001    (4) 2002
At what time between 3 pm and 4 pm the hands of a clock are together?

మహోన్నతం 3 మధ్య దినానికి మొదటి సమయం మాత్రమే కాలోస్తున్న ఉండవచ్చు కాబట్టి?

(1) $3.16\frac{4}{11}$  (2) $3.17\frac{5}{11}$  (3) $3.18\frac{6}{11}$  (4) $3.19\frac{7}{11}$

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
A clock gains time uniformly. It is found to be 2 minutes slow at 12.00 noon on Monday and is found to be 4 min 48 sec fast at 2.00 pm on the following Monday. When did the clock shows the correct time?

(1) 2.00 pm on Tuesday  
(2) 2.00 pm on Wednesday

(3) 2.00 pm on Thursday  
(4) 2.00 pm on Friday

Options :
1.  
2.  
3.  
4.  

Question Number : 69  Question Id : 9126063344  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Problem Solving — Date, Time & Arrangement Problems

A man said to a lady “your mother’s husband’s sister is my aunt”. How is the lady related to the man?

(1) Daughter  (2) Sister
(3) Mother  (4) Grand Daughter

Options :
1. * 1
2. ✔ 2
3. * 3
4. 4

Question Number : 70  Question Id : 9126063345  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
A bill payment office has 3 counters working at staggered timings between 8.00 am to 6.00 pm. The first counter is open between 8.00 am and 2.00 pm, second from 10.00 am to 4.00 pm and the third from 12.00 noon to 6.00 pm.

During which of the following time slots are all the three counters open?

(1) 10.00 am to 12.00 noon
(2) 12.00 noon to 2.00 pm
(3) 2.00 pm to 4.00 pm
(4) 4.00 pm to 6.00 pm

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Two people were arguing about the distance between two cities A and B. The first one said that the distance is more than 100 km but less than 150 km. The second one said that it is more than 140 km but less than 190 km. If both of them are correct, which of the following options is the possible distance between A and B?

\[\begin{align*}
\text{(1)} &\quad 130 \text{ km} \\
\text{(2)} &\quad 135 \text{ km} \\
\text{(3)} &\quad 145 \text{ km} \\
\text{(4)} &\quad 155 \text{ km}
\end{align*}\]

Options:

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4
Three men A, B, C and three women D, E, F sit around a circular table all facing inwards.

(i) A is to the right of D who is opposite of E;

(ii) C is to the left of F but not next of B;

(iii) E and A are on either side of B.

Who is opposite of B?

A. B, C 편 중에 위치한 사람 중 오른쪽에 D, E, F 편 위치한 사람 중

(i) E 는 D의 왼쪽에 있으면 A가 오른쪽에 있어야 한다.

(ii) F 는 C의 왼쪽에 있으면 B가 오른쪽에 있어야 한다.

(iii) E, A 와 B의 중간에 있어야 한다.

B는 왼쪽에 위치한 사람?

(1) C (2) D (3) E (4) F

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Question Number : 73  Question Id : 9126063348  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
If the symbols $\alpha, \beta, \gamma$ and $\delta$ denote the arithmetic operations of addition, subtraction, multiplication and division respectively. Then,

$\alpha, \beta, \gamma, \delta$ ముఖ్యమైన శాఖలు, విధానాలు, నియమాలు మరింతం వంటి శాఖలు

\[
[(36 \alpha 4) \gamma (8 \alpha 4)] \delta [(9 \alpha 3) \beta (5 \gamma 2)] =
\]

(1) 240  
(2) 280  
(3) 320  
(4) 360

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4
Problem Solving — Date, Time & Arrangement Problems

For nonzero real numbers $x$ and $y$ operations $\star$ and $\Delta$ are defined by $x \star y = \frac{x^2 + y^2}{xy}$ and $x \Delta y = \frac{2x}{y}$. If $a \star b = 4 \Delta 4$, then the relation between $a$ and $b$ is

\[a \star b = 4 \Delta 4\] and $a, b \neq 0$

(1) $a = b$ (2) $a = 2b$ (3) $2a = b$ (4) $2a = 3b$

Options :
1. ✓
2. ✗
3. ✗
4. ✗

---

Problem Solving — Date, Time & Arrangement Problems

For real numbers $x$ and $y$, let $x \odot y = x + y - 2xy$. If $x \odot x = \frac{1}{2}$, then $x =$?

\[x \odot x = x + y - 2xy \Rightarrow \frac{1}{2} \quad \text{and} \quad x \odot x = \frac{1}{2} \quad \text{implies} \quad x = ?

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

Options :
1. ✓
If \( \frac{x}{a} = \frac{y}{b} = \frac{z}{c} \) and

\[ \sqrt{ax} + \sqrt{by} + \sqrt{cz} = K \sqrt{(a + b + c)(x + y + z)} \]

then \( K = \)

\[ \frac{x}{a} = \frac{y}{b} = \frac{z}{c} \]

\[ \sqrt{ax} + \sqrt{by} + \sqrt{cz} = K \sqrt{(a + b + c)(x + y + z)} \]  

\( K = \)

(1) 1  (2) 0  (3) -1  (4) \( \sqrt{abc} \)

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

If \( a, b, c \) and \( d \) are non-zero real numbers such that \( a^x = b^y = c^z = d^w \) and \( ab = cd \),

then \( \frac{1}{x} - \frac{1}{z} = \)

\[ \frac{1}{x} - \frac{1}{z} = \]

1. \( \frac{1}{y} + \frac{1}{w} \)
2. \( \frac{1}{y} - \frac{1}{w} \)
3. \( \frac{1}{w} - \frac{1}{y} \)
4. \( 1 \)

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Arithmetical Ability

Rs. 4600 is divided among A, B and C such that the ratio of A’s to B’s share is 2 : 1 while that of B’s to C’s share is 6 : 5. Then how much did B got?

A, B యొక్క శాశ్రు 2:1 ఏంటి B, C యొక్క శాశ్రు 6:5 అవసరము. 4600 రూ. కొని A, B, C యొక్క శాశ్రు ఎంత?

1. ₹1100
2. ₹1200
3. ₹1300
4. ₹1400

Options:
1. ✗ 1
Question Number: 79  Question Id: 9126063354  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical

Arithmetical Ability

If \( A : B = 3 : 4; B : C = 15 : 16 \), then \( A : B : C = \)

\( A : B = 3 : 4; B : C = 15 : 16 \), \text{ therefore } \( A : B : C = \)

(1) 3:15:16 (2) 4:16:25 (3) 45:60:64 (4) 10:15:23

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Question Number: 80  Question Id: 9126063355  Question Type: MCQ  Option Shuffling: No  Display Question Number: Yes  Single Line Question Option: No  Option Orientation: Vertical

Arithmetical Ability

If \( x = 7 + 4 \sqrt{3}; y = 7 - 4 \sqrt{3} \), then \( \frac{1}{x^2} + \frac{1}{y^2} = \)

\( x = 7 + 4 \sqrt{3}; y = 7 - 4 \sqrt{3} \), therefore \( \frac{1}{x^2} + \frac{1}{y^2} = \)

(1) 148 (2) 172 (3) 194 (4) 208

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

\[ x = 3 - \sqrt{5} \Rightarrow x^2 + 4 = \]

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

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Arithmetical Ability

If \( a > b \) and the decimal number 12a34b8322 is divisible by 9 then the ordered pair \((a, b) = \)

\( a > b \) \( \Rightarrow \) the decimal number 12a34b8322 is divisible by 9 \( \Rightarrow \) the ordered pair \((a, b) = \)

(1) (2, 9)    (2) (9, 2)    (3) (4, 7)    (4) (3, 8)

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Arithmetical Ability

The number of natural numbers $n$ such that $\frac{4n^2 + 5n + 10}{n}$ is a prime number

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

Options :
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4

Arithmetical Ability

What is the largest number when subtracted from 4000 is divisible by 7, 11 and 13?

4000 నుంచి ప్రతి పరిశీలించిన సంఖ్యాకారాలు 7, 11 మరియు 13 పరిశీలనలు విభజించాలి?

(1) 1999  (2) 2099  (3) 2999  (4) 3099

Options :
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4
Arithmetical Ability

Traffic lights at three junctions A, B and C change every 25, 30 and 40 seconds respectively. If all the lights change simultaneously at 9.00 am then the time when all of them change together next is?

(1) 9.05 am  
(2) 9.06 am  
(3) 9.10 am  
(4) 9.12 am

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Arithmetical Ability

2^{40} ends with the last three digits?

2^{40} అంకిత విశేషాలు మూలము మూలము అంకిత విశేషాలు?

(1) 726  
(2) 776  
(3) 746  
(4) 716

Options:
1. ✗ 1
If \( \frac{3}{8} \) th of a number \( n \) is subtracted from \( \frac{17}{32} \) th of that number, we get 325. Then\n
\[
\text{n} = \frac{\frac{3}{8} \times n - \frac{17}{32} \times n}{1} = 325
\]

\[\text{Options:}\]
1. 520
2. 1040
3. 2080
4. 4160

Question Number : 88  Question Id : 9126063363  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Arithmetical Ability

Which is the smallest among \(\frac{3}{5}, \frac{2}{3}, \frac{4}{7}, \frac{5}{8}\)?

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

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

If $\frac{3}{2}$% of $\frac{3}{7}$% of $x$ is 9 then $x =$ ?

\[ x \times \frac{3}{7} \times \frac{3}{2} = 9 \]

Options:
1. 2000
2. 4000
3. 6000
4. 8000

Arithmetical Ability

When 85% of a number is added to 24, the result is the same number. What is that number?

\[ \text{number} \times 85\% + 24 = \text{number} \]

Options:
1. 160
2. 140
3. 150
4. 180
The cost price of 10 articles is equal to the sale price of 12 same articles. What is the outcome of this transaction?

(1) $16\frac{2}{3}\%$ loss

(2) $16\frac{2}{3}\%$ gain

(3) $\frac{100}{3}\%$ gain

(4) $\frac{100}{3}\%$ loss

Options:

1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Arithmetical Ability

Shyam marks his goods 25% above cost price of an article and allows a discount of 12.5%. if he sells that article for Rs. 875, what is its cost price?

(1) ₹850  (2) ₹825  (3) ₹800  (4) ₹820

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

P and Q enter into partnership with capitals in the ratio 5:6. At the end of 8 months P withdraws. If they receive profits in the ratio 5:9, how long Q’s capital was used?

P, Q యొక్క 5:6 పాలనా వస్తువుల వాటి విభాగాన్ని అదేదిగా మంచివొట్టారు. 8 మీస్తుల మరోకాది పాలన ప్రస్తుతం అయితే, 5:9 పాలనా వస్తువుల విభాగంలో Q యొక్క వస్తువు ఎత్తు ఉండి?

(1) 11 months  (2) 9 months  (3) 10 months  (4) 12 months

11 మీస్తులు  9 మీస్తులు  10 మీస్తులు  12 మీస్తులు

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

Question Number : 95  Question Id : 9126063370  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Arithmetical Ability

A and B started business by investing Rs. 10 lakhs and Rs. 15 lakhs respectively. After 6 months C joined by investing Rs. 20 lakhs. At the end of the year the ratio of their profits will be?

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

Two taps P and Q can separately fill a cistern in 12 minutes and 18 minutes respectively, while a third tap R can empty it in 9 minutes. In what time (in minutes) will the cistern be full, if all the three taps are opened together when the cistern is empty?

Options:

(1) 24  (2) 42  (3) 36  (4) 30

Question Number : 97  Question Id : 9126063372  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes
Single Line Question Option : No  Option Orientation : Vertical
Arithmetical Ability

A pipe can fill a tank in 15 hours. Due to a leak in the bottom, it is filled in 20 hours. If the tank is full, how much time will the leak take to empty it?

(1) 45 hours    (2) 50 hours    (3) 40 hours    (4) 60 hours

45 కాలం    50 కాలం    40 కాలం    60 కాలం

Options:
1. * 1
2. * 2
3. * 3
4. ✓ 4
A car travels a distance of 170 km in 2 hours, partly at 100 kmph and partly 50 kmph. The part of the distance covered by the car with the speed 100 kmph is?

(1) 140 km  (2) 120 km  (3) 100 km  (4) 80 km

140 km.  120 km.  100 km.  80 km.

Options:
1. ✔ 1
2. ✔ 2
3. ✔ 3
4. ✔ 4
A man walks along the diagonal side of a square field at the rate of 10 kmph for 30 minutes. What is the area of the square field? (in sq. km)

Shyam and Ravi together can do a work in 8 days. If Shyam alone can do it in 12 days, in how many days can Ravi alone do the work?
12 men or 15 women complete a work in 14 days. The number of days required to complete the same work for 7 men and 5 women are?

12 మనిషులు నిర్మాణ క్రన్ అలా తారా 14 నాడు ప్రత్యేకించారు. 7 మనిషులు నిర్మాణ క్రన్ అలా తారా 5 మనిషులు నిర్మాణ క్రన్ అలా తారా ప్రత్యేకించడానికి ఎలా జాణించేందుకు?

(1) $12\frac{3}{11}$  
(2) $13\frac{2}{3}$  
(3) $12\frac{5}{6}$  
(4) $15\frac{3}{11}$
Arithmetical Ability

The ratio of the area of square to that of the square drawn on its diagonal is?

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

Options:
1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

The surface area (in sq. cm) of the cube each side of which is 11 cm is

(1) 726  (2) 744  (3) 864  (4) 384

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

A metallic solid cylinder of height 1 meter and base radius 0.75 meters is melted and cast into a solid sphere. The diameter of the sphere (in meters) so formed is?

1  మీటర్ ఎత్తు, 0.75 మీటర్ వ్యాసం ఉన్న శిఖర ధ్వంసం ఉన్న స్ఫూర్తి నకు మళ్ళె యుగించబడింది. అది రెండవ రేఖాను స్ఫూర్తి అయితే (మీటర్స్

(1) 2  (2) 1.5  (3) 0.75  (4) 0.50

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

The diameter of the sphere whose volume is $179\frac{2}{3}$ cubic meters?

$179\frac{2}{3}$ మీ. శిఖర ధ్వంసం ఉన్న స్ఫూర్తి స్ఫూర్తి నకు మళ్ళె?

(1) 6.5 m (మీ.)  (2) 6 m (మీ.)  (3) 7 m (మీ.)  (4) 7.5 m (మీ.)

Options :
1. ✗ 1
2. ✗ 2
Arithmetical Ability

If the length of a rectangle is decreased by 4 cm and the width is increased by 3 cm, a square with the same area as the original rectangle will result. Then the perimeter of the rectangle is?

40 cm. 45 cm. 50 cm. 52 cm.

Options:
1. 1
2. 2
3. 3
4. 4
Arithmetical Ability

A hall is of dimensions 13 m X 9 m. The cost of flooring this hall with tiles of area 750 sq. cm each costing Rs. 20.

13 m x 9 m. నిద్ర పెడుగులతో కూడా బాగా నిద్ర బట్టి నుండి ఆ రూ. 20.

వీటి పొడవు 750 సమాధి యొక్క పెడుగులతో నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర నిద్ర

(1) ₹3100  (2) ₹3120  (3) ₹3080  (4) ₹3112

Options:
1. * 1
2. ✔ 2
3. * 3
4. * 4

The cost of fencing around a circular field at Rs. 5 per meter is Rs. 220. What is the total cost of cultivating the field at Rs. 10 per square meter?

పిలిసి ప్రతి మీటర్ బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి బట్టి

(1) ₹1440  (2) ₹1540  (3) ₹1240  (4) ₹1560

Options:
1. * 1
2. ✓ 2
3. * 3
4. * 4

Question Number : 109  Question Id : 9126063384  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Arithmetical Ability

342(7) + 243(7) =

(1) 415(7)  (2) 516(7)  (3) 615(7)  (4) 585(7)

Options :
1. * 1
2. * 2
3. ✓ 3
4. * 4

Question Number : 110  Question Id : 9126063385  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Arithmetical Ability

If 4314(7) – 3656(7) = X(10) then X =

4314(7) – 3656(7) = X(10)  xBCx  X =

(1) 156  (2) 166  (3) 176  (4) 186

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

The truth value of the conjunction $12 \div 10 = 2$ and $20 \times 10 = 200$ is

$12 \div 10 = 2$ మరియు $20 \times 10 = 200$ ఉన్నప్పుడు అది సత్యము అనిపిచ్చు

1. True
2. Both True and False
3. Neither True nor False
4. False

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

The statement ‘All primes are odd’ can be proved to be False by

(1) Direct proof
    ఎందుకు విరుద్ధం
(2) Indirect proof
    ఎందుకు విరుద్ధం
(3) Counter Example
    ఎందుకు విరుద్ధం
(4) Contradiction
    విరుద్ధం

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

If X = \{2, 3, 4, 5, 6, 7\}, the number of subsets of X containing 4 is?

X = \{2, 3, 4, 5, 6, 7\} ఎందుకు 4 అనే ఎంటికిని X లో ఎంత సంఖ్యలు ఉంటుంది?

(1) 16  (2) 32  (3) 64  (4) 63

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

If \( f(y) = \frac{|y|}{y} \) for \( y \neq 0 \) and \( q \) is any non-zero real number, then the value of

\[ |f(q) - f(-q)| = \]

\( y \neq 0 \) \( \Rightarrow \) \( f(y) = \frac{|y|}{y} \) కూడా \( q \) ఒక నిష్కమన సంఖ్య కానం అని అంటే

\[ |f(q) - f(-q)| \) ఎంత?

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

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

The range of the function $f: \mathbb{R} \to \mathbb{R}$ defined by $f(x) = 2|x|$ is

$f: \mathbb{R} \to \mathbb{R}$ का $f(x) = 2|x|$ से विषमिकाः $f$

(1) $[0, \infty)$  (2) $(0, \infty)$  (3) $(2, \infty)$  (4) $[2, \infty)$

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Algebraic and Geometrical Ability

Equation of the straight line having slope 2 and Y-intercept 5 is

मान 2 महत्त्वात Y-अवतरण 5 र ग्रें अवतरण कार्यकर

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

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
The equation of the straight line passing through (2, -3) and having equal intercepts is?

\[(2, -3) \text{ నుండి వేర్తి వనరు అయిన రేఖు యొక్క స్థానాంతర నియమం నియమం}

\[
(1) \quad x - y - 1 = 0 \\
(2) \quad x - y + 1 = 0 \\
(3) \quad x + y - 1 = 0 \\
(4) \quad x + y + 1 = 0
\]

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

\[\text{tan } 15^\circ + \text{tan } 75^\circ = \]

\[(1) \quad 1 \quad (2) \quad 2 \quad (3) \quad 3 \quad (4) \quad 4\]
Algebraic and Geometrical Ability

\[ \sin 0^\circ + \cos 30^\circ - \tan 45^\circ + \csc 60^\circ + \cot 90^\circ = \]

(1) \( \frac{7\sqrt{3} - 6}{2\sqrt{3}} \)  
(2) \( \frac{7\sqrt{3} - 6}{6} \)  
(3) \( \frac{7\sqrt{3} + 6}{6} \)  
(4) \( \frac{7\sqrt{3} + 6}{2\sqrt{3}} \)

Options :
1. * 1
2. ✓ 2
3. * 3
4. * 4

Question Number : 120  Question Id : 9126063395  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Algebraic and Geometrical Ability

If θ is an acute angle, and tan θ = \(\frac{1}{\sqrt{7}}\) then,

\[
\frac{\sec^2 \theta + \tan^2 \theta}{\csc^2 \theta + \cot^2 \theta} = \]

θ అగాథమాన తాన ఠాన = \(\frac{1}{\sqrt{7}}\) సార్లు

\[
\frac{\sec^2 \theta + \tan^2 \theta}{\csc^2 \theta + \cot^2 \theta} = \]

(1) \(\frac{6}{35}\)  (2) \(\frac{4}{35}\)  (3) \(\frac{3}{35}\)  (4) \(\frac{2}{35}\)

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

The angle of elevation of the top of a pole from a point 100 m away from its foot is 60°. The height of the pole (in meters) is?

\[ \tan 60° = \frac{\text{Height}}{100} \]

\[ \text{Height} = 100 \times \tan 60° \]

1. 200
2. 200\(\sqrt{3}\)
3. 300
4. 100\(\sqrt{3}\)

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Algebraic and Geometrical Ability

\[ a + b + c = 6; \ a^2 + b^2 + c^2 = 26 \implies ab + bc + ca = ? \]

1. 5
2. 6
3. 7
4. 4

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

(3a + 2b + c)(9a^2 + 4b^2 + c^2 - 6ab - 2bc - 3ca) =

(1) a^3 + b^3 + c^3 - 18abc
(2) 9a^3 + 8b^2 + c^3 - 18abc
(3) 27a^3 - 8b^3 - c^3 + 18abc
(4) 27a^3 + 8b^3 + c^3 - 18abc

Options:
1. ♦ 1
2. ♦ 2
3. ♦ 3
4. ✅ 4

If (x-13) is a factor of a polynomial p(x) then a factor of q(x) = p(3x+1) is

(1) x-1
(2) x+1
(3) x+4
(4) x-4

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

అగ్రమాధికార క్షీణాక

The value of $a$ so that $x^4 - 2x^3 + 3x^2 - ax + 5$ is exactly divisible by $(x-1)$ is

$x^4 - 2x^3 + 3x^2 - ax + 5 = (x-1)$ నుండి ఎంతగామి వస్తుందు అంటే $a$ ఉంటుంది?

(1) 7  (2) 10  (3) -11  (4) 11

Options :
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Algebraic and Geometrical Ability

అగ్రమాధికార క్షీణాక

If $\frac{4}{x-3} + \frac{6}{y-4} = 5$ and $\frac{5}{x-3} - \frac{3}{y-4} = 1$, then $(x, y) =$

\[
\frac{4}{x-3} + \frac{6}{y-4} = 5, \quad \frac{5}{x-3} - \frac{3}{y-4} = 1 \quad \text{మాత్రమే (x, y) =}
\]

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

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

A zoo has some rabbits and peacocks. If the total number of them is 60 and total number of their legs is 192, then the number of rabbits is?

60, మళ్ళి జంతువుల పంప మొత్తం 192, మళ్ళి జంతువుల పంప మొత్తం?

(1) 30  (2) 40  (3) 46  (4) 36

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

Algebraic and Geometrical Ability

If the second and seventh terms of an arithmetic progression are 2 and 22 respectively, then the sum of the first 35 terms of that progression is?

2, 22 అనే అధికంగా రేఖాప్రగతి అంశాల మొత్తం?

(1) 1860  (2) 1920  (3) 2240  (4) 2310

Options :
Algebraic and Geometrical Ability

The 4\textsuperscript{th} term of a geometric progression is the square of its second term. If its first term is -3, then its 7\textsuperscript{th} term is?

\[ ar = -3 \times 4 = -12 \]

\[ a_2 = -3 \times 4 = -12 \]

\[ a_7 = a_4 \times r^3 = -12 \times 4^3 = -12 \times 64 = -768 \]

Options:

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

Question Number : 130  Question Id : 9126063405  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Options:

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

The coefficient of $x^7$ in the binomial expansion of $\left(2x^3 + \frac{1}{4x^2}\right)^9$ is

$(2x^3 + \frac{1}{4x^2})^9 \text{ के } x^7 \text{ का कोण्टील }$?

(1) $\frac{63}{4}$  (2) 0  (3) 32  (4) $\frac{17}{4}$

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Algebraic and Geometrical Ability

$(1 + \sqrt{2})^4 + (1 - \sqrt{2})^4 =

(1) 36  (2) 34  (3) 38  (4) 40

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

Let $|S|$ denote the determinant of any matrix $S$. If $A$ is a $3 \times 3$ matrix, then

$$|\text{Adj}(\text{Adj} A^2)| =$$

If $A$ is any $3 \times 3$ matrix, then $|\text{Adj}(\text{Adj} A^2)| =$

(1) $|A|^2$  (2) $|A|^4$  (3) $|A|^8$  (4) $|A|^{16}$

Options :
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✗ 4

Algebraic and Geometrical Ability

If $A$ is a square matrix then, among the following, the matrix which is not symmetric is?

$A$ is a square matrix. Which one is not symmetric?

(1) $A + A^T$  (2) $A - A^T$  (3) $AA^T$  (4) $A^T A$

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Algebraic and Geometrical Ability

\[
\lim_{n \to \infty} \frac{1^2 + 2^2 + \ldots + n^2}{n^3} =
\]

(1) \(\frac{1}{6}\)  
(2) \(\frac{1}{3}\)  
(3) -1  
(4) \(\frac{1}{2}\)

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

If $x = \cos \theta (1 + \cos \theta)$ and $y = \sin \theta (1 + \cos \theta)$ then \( \frac{dy}{dx} \theta = \frac{\pi}{2} = \)

\[ x = \cos \theta (1 + \cos \theta), \quad y = \sin \theta (1 + \cos \theta) \]

\( \theta = \frac{\pi}{2} \) \( \Rightarrow \) \( \frac{dy}{dx} \theta = \frac{\pi}{2} = \)

(1) 0 \hspace{1cm} (2) \( \frac{1}{2} \) \hspace{1cm} (3) 1 \hspace{1cm} (4) -1

Options :
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Algebraic and Geometrical Ability

In triangle $ABC$, length of the sides $AB$, $BC$, $CA$ are respectively 5 cm, 6 cm, 7 cm. then the length (in cms) of the median $AD$ is?

(1) $\sqrt{7}$ \hspace{1cm} (2) $2\sqrt{7}$ \hspace{1cm} (3) $\sqrt{5}$ \hspace{1cm} (4) $2\sqrt{5}$

Options :
1. ✗ 1
2. ✓ 2

TS ICET 2018
Algebraic and Geometrical Ability

The diagonals of a rhombus are 6 cm and 8 cm. its perimeter (in cms) is?

(1) 48  (2) 36  (3) 32  (4) 20

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

In the figure PT is tangent to the circle and PT = 12 cm. if PA = 8 cm and PB = x cms then x=?

Options:
(1) 10  (2) 12  (3) 16  (4) 18
Algebraic and Geometrical Ability

If two vertices of a triangle are (2, 3), (-1, 4) and its centroid is (3, 5), then the area (in sq units) of the triangle is?

Mathematically, the centroid of a triangle with vertices (x1, y1), (x2, y2), and (x3, y3) is given by

\[(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3})\]

Therefore, the centroid is calculated as

\[\frac{2 + (-1) + 3}{3}, \frac{3 + 4 + 5}{3}\]

\[= (\frac{4}{3}, \frac{12}{3}) = (3, 4)\]

The coordinates of the vertices are given as (2, 3), (-1, 4), and (3, 5). The area of a triangle with vertices (x1, y1), (x2, y2), and (x3, y3) can be calculated using the formula:

\[\text{Area} = \frac{1}{2} |x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|\]

Substituting the given vertices:

\[\text{Area} = \frac{1}{2} |2(4 - 5) + (-1)(5 - 3) + 3(3 - 4)|\]

\[= \frac{1}{2} |-2 - 2 - 3| = \frac{1}{2} \times 7 = \frac{7}{2}\]

Therefore, the area of the triangle is \(\frac{7}{2}\) square units.

Options:
1. \(\frac{27}{2}\)
2. \(\frac{25}{2}\)
3. \(\frac{21}{2}\)
4. \(\frac{19}{2}\)

Algebraic and Geometrical Ability

The in-centre of the triangle formed by A(2, 3), B(-2, -5) and C(-4, 6) is

Mathematically, the in-centre of a triangle with vertices (x1, y1), (x2, y2), and (x3, y3) is given by

\[(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3})\]

Therefore, the in-centre is calculated as

\[\frac{2 + (-2) + (-4)}{3}, \frac{3 + (-5) + 6}{3}\]

\[= (\frac{-4}{3}, \frac{4}{3})\]

The coordinates of the vertices are given as (2, 3), (-2, -5), and (-4, 6). The in-centre of a triangle is given by

\[\left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3}\right)\]

Therefore, the in-centre is calculated as

\[\left(\frac{2 + (-2) + (-4)}{3}, \frac{3 + (-5) + 6}{3}\right)\]

\[= \left(\frac{-4}{3}, \frac{4}{3}\right)\]

Options:
1. (-1, -2)
2. (1, -2)
3. (-1, 2)
4. (1, 2)
Statistical Ability

The arithmetic mean of 8, 12, 4, 16, 20, 18, 22, 14 is

\[ 8, 12, 4, 16, 20, 18, 22, 14 \]

(1) 14.5  (2) 13.25  (3) 13.75  (4) 14.25

Options:
1. ✗ 1
2. 2
3. ✗ 3
4. ✗ 4

Statistical Ability

The median of 68, 86, 54, 64, 46, 84, 72, 48 is

\[ 68, 86, 54, 64, 46, 84, 72, 48 \]

(1) 68  (2) 66  (3) 64  (4) 58

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Statistical Ability

If \( m_1 \), \( m_2 \) and \( m_3 \) respectively denote the arithmetic mean, median and mode of a distribution then

(1) \( m_1 = m_2 = m_3 \)  
(2) \( m_1 - m_3 = 3(m_1 - m_2) \)  
(3) \( m_1 - m_2 = 3(m_1 - m_3) \)  
(4) \( m_3 - m_2 = 3(m_1 - m_3) \)

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

The variance of the following distribution is

\[ x_i: \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \]
\[ f(x_i): \ 1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \]

(1) 3 \quad (2) 4 \quad (3) 5 \quad (4) 6

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Statistical Ability

The standard deviation of any seven consecutive positive integers is

(1) 2.5 \quad (2) 2 \quad (3) 3 \quad (4) 3.5

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

An unbiased coin is tossed 6 times. The probability of getting at least one head is

\[
\frac{64}{64} - \left( \frac{1}{64} \right) = \frac{63}{64}
\]

Options:
1. \( \frac{1}{64} \)
2. \( \frac{5}{64} \)
3. \( \frac{36}{64} \)
4. \( \frac{63}{64} \)

Statistical Ability

An unbiased six faced dice and an unbiased coin are tossed simultaneously. The probability for a composite number turning up on the die and a head on the coin is?

\[
\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}
\]

Options:
1. \( \frac{1}{2} \)
2. \( \frac{1}{3} \)
3. \( \frac{1}{4} \)
4. \( \frac{1}{6} \)
Statistical Ability

A number is chosen at random from the set \{1, 2, 3, \ldots, 50\}. The probability for the chosen number to be a prime or cube of an integer is?

\[ \frac{13}{50} \quad \text{(1)} \quad \frac{17}{50} \quad \text{(2)} \quad \frac{19}{50} \quad \text{(3)} \quad \frac{21}{50} \quad \text{(4)} \]

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

A bag contains 4 white, 5 red and 7 black balls. Three balls are drawn one after the other without replacement. The probability they are all red is?

(1) $\frac{1}{64}$  (2) $\frac{1}{58}$  (3) $\frac{1}{56}$  (4) $\frac{1}{48}$

Question Number : 150  Question Id : 9126063425  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical

Statistical Ability

The size of the sample space in the experiment of tossing a coin 4 times is?

(1) 12  (2) 14  (3) 20  (4) 16

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

Restitution

(1) restoration
(2) health
(3) organization
(4) revenge

Options:
1. ✔
2. ✗  
3. ✗  
4. ✗  

Choose the correct meaning of the word given:

Tacit

(1) diplomatic
(2) understood
(3) respond
(4) register

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

Assuage

(1) soothe
(2) assert
(3) attack
(4) let down

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Choose the correct meaning of the word given:

Relinquish

(1) give up
(2) disarm
(3) relish
(4) inflict

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

Defray

(1) give away
(2) leave out
(3) give back
(4) take back

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Choose the correct meaning of the word given:

Ubiquitous

(1) completely hidden
(2) shared equally
(3) peaceful
(4) present everywhere

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4
Fill in the blank choosing the correct word:

It was a _________ decision that brought him several new orders.

(1) fortuitous  
(2) magnanimous  
(3) outrageous  
(4) perverse

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

Fill in the blank choosing the correct word:

There is no _________ of truth in the story put out by the news channel.

(1) confidence  
(2) vestige  
(3) difference  
(4) opinion

Options:
1. ✗ 1  
2. ✔️ 2  
3. ✗ 3  
4. ✗ 4
Fill in the blank choosing the correct word:

Villagers are often ______ to the big cities with promises of quick money.

(1) forced
(2) admitted
(3) stolen
(4) lured

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Fill in the blank choosing the correct word:

The student ______ to work harder in order to score well in the examination.

(1) resourced
(2) regretted
(3) failed
(4) resolved

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

In binary addition \(1 + 1 =\)

(1) \(2\)
(2) \(10\)
(3) \(01\)
(4) \(11\)

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

Choose the correct answer:

A special computer program that pretends to do a certain thing, but in reality it does something else such as allow a stranger to access the computer and change it, and read its information is called:

(1) Virus
(2) Trojan Horse
(3) Surfing
(4) Spyware

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

The process of putting social media content on a webpage is known as

(1) embedding
(2) impressions
(3) engagement
(4) influencer

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer:

The space between characters (letters, numbers, and punctuation) and the process of adjusting that space to avoid unsightly gaps and improve the legibility of text is referred to as

(1) Kerning
(2) Font
(3) Leading
(4) Tracking

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

A collection of input data is

(1) a file
(2) a program
(3) a source library
(4) an index

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

Choose the correct answer:

The exchange of data usually in graphic form that is needed to describe a product is called

(1) Electronic Data Exchange
(2) Bar Code
(3) Product Data Exchange
(4) Electronic Forms

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

An assembly of people meeting regularly to advise on, discuss, or organise something is called

(1) council
(2) meeting
(3) gathering
(4) committee

Choose the correct answer:

A messenger who carries goods or documents is called

(1) postman
(2) attendant
(3) courier
(4) peon
Choose the correct answer:

A balance sheet is a document showing

(1) Profit or loss for a period of the company
(2) Assets and liabilities of the company
(3) Flow of cash and balance of cash position
(4) Balance of raw materials and finished goods inventory

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

Choose the correct answer:

Sale of goods to the public in small quantities is called

(1) wholesale
(2) marketable
(3) accessory
(4) retail

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

A: “You really should be firm with him or there will be trouble later.”
B: “I’m afraid to do so!”

‘A’ implies that ‘B’ is

(1) tactless
(2) firm
(3) weak
(4) courageous

Options:
1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Choose the correct answer:

A: “How much of your time do you spend at work?”
B: “I leave for work at 8 pm and get off work at 6 am”

‘B’ implies that

(1) he works from 6 a.m. to 8 p.m.
(2) he works from 8 p.m. to 6 a.m.
(3) he works throughout the day time
(4) he leaves home for work at 6 a.m.

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

A: ‘When should I come round to your place?’
B: ‘This time I will come round to your place.’

‘B’ implies that ‘A’

(1) is busy
(2) never invites him to his place
(3) is different
(4) is unwelcome

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

**A:** “How did Mohan fare in his job?”

**B:** “Well, he managed to hang on to his job.”

In this conversation ‘B’ states that Mohan

(1) is struggling to keep his job
(2) kept his job
(3) is doing extremely well
(4) is likely to get fired

Choose the correct answer:

I wouldn’t like to **go through** that again.

The underlined phrase means

(1) experience
(2) travel
(3) subject
(4) attack

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

Change the following into passive voice:

Enter it in the register.

(1) Use the register.
(2) It should be entered in the register.
(3) Let it be entered in the register.
(4) The register is required to enter it.

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

**A:** “I need not do it.”

**B:** “Of course you have to do it! It’s your project after all.”

‘B’ implies that ‘A’

(1) has no option
(2) is lazy
(3) is unintelligent
(4) is incompetent

Options:
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

---

**Fill in the blanks with the appropriate phrase / verb / preposition:**

Banks help people wanting to___________ business.

(1) set out
(2) set up
(3) set aside
(4) put in

Options:
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

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**Question Information:**

Question Number : 178  Question Id : 9126063453  Question Type : MCQ  Option Shuffling : No  Display Question Number : Yes  Single Line Question Option : No  Option Orientation : Vertical
Fill in the blanks with the appropriate phrase / verb / preposition:

If you don’t _________ he will take your job from you.

(1) look forward
(2) look after
(3) look back
(4) look out

Options :
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✔ 4

Fill in the blanks with the appropriate phrase / verb / preposition:

There are many social organisations that are _________ in the upliftment of the poor and needy.

(1) raised
(2) reserved
(3) involved
(4) retained

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

By picking a quarrel with the organisers they ________ all chances of going back to that event.

(1) eliminated
(2) exterminated
(3) exploited
(4) elaborated

Options :
1. ✔ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

I am too ________ to go shopping again as my feet are aching.

(1) relieved
(2) satisfied
(3) bored
(4) exhausted

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

If you want to work in the sales division you need to have a flair ______ selling.

(1) in  
(2) of  
(3) to  
(4) for

Options:
1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

I must protest ______ this course of action.

(1) after  
(2) at  
(3) across  
(4) into

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

I am quite aware __________ his merits.

(1) of
(2) for
(3) upon
(4) by

Options:
1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4
Read the following passage and answer questions 36-40:

Everyone except the accurate thinker has an overabundance of opinions, and usually these are without great value. Many of them can also be dangerous and destructive when used in conjunction with personal initiative because if they are based upon prejudice, intolerance, ignorance or hearsay evidence, they may do a great deal of harm. No opinion can be considered safe unless it is based upon known facts, and no one should express an opinion on any subject without assurance that it is founded on facts, or sound hypothesis of facts. Free advice volunteered by friends and acquaintances usually is not worthy of consideration. The accurate thinker, therefore, never acts upon such advice without giving it the closest scrutiny. Accurate thinkers permit no one to do their thinking for them. They obtain facts, information and counsel from others, but they retain the privilege of accepting or rejecting such advice in whole, or in part. Accurate thinkers do not form opinions based upon newspaper reports, for they cannot be sure that such information is always the result of accurate thinking.

Sub questions

When can opinions become dangerous?

(1) when they are ill-founded
(2) when they are discussed
(3) when they are uttered
(4) when they become popular

Options :
1. ✓
2. ✗
3. ✗
4. ✗
Who is an ‘accurate thinker’?

(1) One who is practical
(2) One who is alert
(3) One who bases his opinions on facts
(4) One who is intelligent

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✔ 4

How should ‘free advice’ be treated?

(1) seriously
(2) importantly
(3) carefully
(4) lightly

Options:
1. ✗ 1
2. ✗ 2
3. ✔ 3
4. ✔ 4
What does ‘closest scrutiny’ mean?

(1) to read properly
(2) to examine thoroughly
(3) to write well
(4) to look well

How do ‘accurate thinkers’ become accurate?

(1) They depend on newspapers.
(2) They sift through the information received by them.
(3) They accept the thinking of others.
(4) They depend on their friends.
Read the following passage and answer questions 41-45:

For centuries sky watchers have reported seeing mysterious flashes of light on the surface of the Moon. Modern astronomers have observed the same phenomenon, but no one has been able to satisfactorily explain how or why the Moon sporadically sparks. However, researchers now believe they have found the cause. Researchers have examined the chemical content of Moon rocks retrieved by astronauts during the Apollo missions and have found that they contain volatile gases such as helium, hydrogen and argon. The researchers suggest that stray electrons, freed when the rock cracks, may ignite these gases. Indeed lunar rock samples when fractured in the lab, throw off sparks. What causes these rocks to crack on the lunar surface? The flashes are most often seen at the borders between sunlight and shade on the Moon, where the surface is being either intensely heated or cooled. A sudden change in temperature may cause thermal cracking. Another possibility is that meteors may strike the rocks and cause them to crack. Finally, lunar rocks may be fractured by seismic events – in other words, by tiny moonquakes.

For how long have people been aware of the mysterious lights on the Moon?

(1) for the last ten years  
(2) since the Apollo Moon missions  
(3) for hundreds of years  
(4) for thousands of years

Options:
1. ✓ 1
2. 2
3. ✓ 3
4. 4
What does the word ‘sporadically’ mean?

(1) reputedly
(2) occasionally
(3) mysteriously
(4) constantly

Which of the following supports the theory that Moon rocks give off sparks when they crack?

(1) a telescopic study of the Moon
(2) experiments conducted by astronauts
(3) observations by ancient sky-watchers
(4) an analysis of rocks from the Moon
What causes thermal cracking?

(1) earth quakes
(2) sudden change in temperature
(3) argon gas
(4) pressure of tree roots

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4

What does the word ‘volatile’ refer to?

(1) gentle
(2) explosive
(3) soft
(4) light

Options :
1. ✗ 1
2. ✔ 2
3. ✗ 3
4. ✗ 4
Read the following passage and answer questions 46-50:

I had started on life of ease and comfort, but the experiment was short-lived. Although I had furnished the house with care, yet it failed to have any hold on me. So no sooner had I launched forth on that life, than I began to cut down expenses. The washer man’s bill was heavy, and as he was, besides, by no means noted for his punctuality, even two or three dozen shirts and collars proved insufficient for me. Collars had to be changed daily and shirts, if not daily, at least every alternate day. This meant a double expense, which appeared to me unnecessary. So I equipped myself with a washing outfit to save it. I bought a book on washing, studied the art and taught it also to my wife. This no doubt added to my work, but its novelty made it a pleasure. I shall never forget the first collar that I washed myself. I had used more starch than necessary, the iron had not been made hot enough, and for fear of burning the collar, I had not pressed it sufficiently. The result was that, though the collar was fairly stiff, the superfluous starch continually dropped off it. I went to court with the collar on, thus inviting the ridicule of brother barristers, but even in those days I could be impervious to ridicule.

What evidence do we have of the thrifty nature of the writer?

(1) He wore the same shirt for two days.
(2) He asked his wife to iron his clothes.
(3) He gave the washer man only a few clothes.
(4) He decided to reduce his expenses.

Options:
1. 1
2. 2
3. 3
What made the task of the writer appear less tedious?

(1) It was a new experience.
(2) His wife also helped him.
(3) He employed a person to assist him.
(4) He decided not to do it every day.

Which one of the following was NOT one of the mistakes made by the writer in the process?

(1) He put too much starch.
(2) He burnt the collar of the shirt.
(3) He did not heat the iron enough.
(4) He did not wash off the starch.
What was the profession of the writer?

(1) He was a journalist.
(2) He was a washer man.
(3) He was a contractor.
(4) He was a lawyer.

What was the writer’s reaction to the mockery of his colleagues?

(1) He became angry and shouted at them.
(2) He criticised them in return.
(3) He did not respond to them.
(4) He laughed at their foolishness.