Q.1

The normal to the ellipse \( \frac{x^2}{16} + \frac{y^2}{36} = 1 \) at a point \( P \) on the ellipse has slope \( \frac{2}{3} \). If this normal intersects the major axis of the ellipse at a point \( A \), then \((PA)^2\) is equal to:

Options

1. \( \frac{104}{9} \) \( \checkmark \)
2. \( \frac{32}{3} \)
3. \( \frac{136}{9} \)
4. \( \frac{88}{9} \)

Q.2

If \( \lim_{x \to 4} \frac{x^{3/4} - 4^{3/4}}{x^{1/3} - 4^{1/3}} = 9p \), then \( p \) is equal to:

Options

1. \( \frac{9}{2} \)
2. \( \frac{29}{6} \)
3. \( \frac{-11}{2} \)
4. \( \frac{-31}{6} \) \( \checkmark \)
Q.3 A bag contains 8 white and 6 black balls. A ball is drawn at random from the bag, its colour is observed and kept aside (i.e., not returned in the bag). Three additional balls of the same colour as observed are put in the bag. If now two balls are drawn simultaneously at random from the bag, then the probability that these two balls are of different colours, is:

Options
1. \(\frac{4}{15}\)
2. \(\frac{2}{5}\)
3. \(\frac{7}{25}\)
4. \(\frac{18}{35}\) \(\checkmark\)

Q.4 An A.P. having an odd number of terms, has its first, second and middle terms as \(-12, -7\) and \(38\) respectively, then the sum of this A.P. is:

Options
1. 798 \(\checkmark\)
2. 710
3. 896
4. 756
Q.5  Which one of the following statements is a tautology?
Options
1. \((p \land q) \lor (\sim (p \lor q))\)
2. \(p \land (\sim (p \land q))\)
3. \((p \lor q) \land (\sim (p \land q))\)
4. \(q \lor (\sim (p \land q))\)

Chosen Option: 1

Q.6  Let \((a, b)\) be the solution of the system
\[
\begin{bmatrix}
1 & 3 \\
5 & 1
\end{bmatrix}
\begin{bmatrix}
x \\
y
\end{bmatrix} =
\begin{bmatrix}
2 \\
1
\end{bmatrix}
\]
If \(\alpha\) and \(\beta\) are the roots of the equation \(ax^2 + 2bx - (a+b) = 0\), then the equation, whose roots are \(\alpha\beta\) and \(\frac{1}{\alpha}\), is:

Options
1. \(12x^2 + 47x + 40 = 0\)
2. \(9x^2 + 54x + 80 = 0\)
3. \(12x^2 - 53x + 56 = 0\)
4. \(12x^2 + 17x - 40 = 0\)

Chosen Option: 4
Q.7  Let AP and BQ be two vertical poles standing on the horizontal ground at two points A and B respectively. If AP = 16 m, BQ = 22 m and AB = 20 m, then the minimum value (in m²) of RP² + RQ², where R is any point on AB, is:

Options 1. 1148
2. 940 ✓
3. 840
4. 1048

Q.8  Let $y = y(x)$ be the solution of the differential equation $e^{y}dy = (1 + xe^{y} + xe^{y}) \, dx$ and $y(1) = 0$. Then $y(-3)$ is equal to:

Options 1. 0 ✓
2. $\log_{e}(2)$
3. $\log_{e}(2) - \frac{3}{2}$
4. $\frac{3}{2}$

Q.9  Let $f : \mathbb{R} \to \mathbb{R}$ be a differentiable function such that $f(u + v) = f(u) + 2v^2 + 4uv$ for all $u, v \in \mathbb{R}$. If $f(1) = 3$, then the equation of the normal to the curve $y = f(x)$ at the point $\left( \frac{1}{2}, f\left( \frac{1}{2} \right) \right)$ is:

https://cdn3.digialm.com//per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/15548836180682635/MR1
Q.10 If $A_0, A_1, A_2, A_3, A_4$ and $A_5$ are the vertices of a regular hexagon inscribed in a circle of unit radius, then the product of the lengths of the line segments $A_0A_1, A_0A_2$ and $A_0A_3$ is:

Options
1. $6$
2. $2\sqrt{2}$
3. $2\sqrt{3}$  \(\checkmark\)
4. $3\sqrt{3}$

Question Type: MCQ
Question ID: 41652915408
Option 1 ID: 41652960324
Option 2 ID: 41652960323
Option 3 ID: 41652960325
Option 4 ID: 41652960322
Status: Not Answered
Chosen Option: --

Q.11 Two towers $AB$ and $CD$ are standing on a horizontal plane with points $A$ and $C$ on the plane. If $AB = 10$ m and the angles of elevation of $D$ from $A$ and $B$ are $60^\circ$ and $15^\circ$ respectively, then which of the following (in meters) is not true?

Options
1. $BD = 5\sqrt{3}$  \(\checkmark\)
2. $AC = \frac{5}{2}(\sqrt{3} + 1)$
3. $AD = 5(\sqrt{3} + 1)$

Question Type: MCQ
Question ID: 41652915416
Option 1 ID: 41652960356
Option 2 ID: 41652960354
Option 3 ID: 41652960357
Option 4 ID: 41652960355
Status: Answered
Chosen Option: 3
4. \[ CD = \frac{5}{2} \left( 3 + \sqrt{3} \right) \]
Q.14

The coefficient of $x^5$ in the expansion of

$$(1-x) \left(\frac{x^3 - 6}{2x^2}\right)^{10}$$

is:

Options:

1. $\frac{1405}{256}$
2. $\frac{405}{256}$ ✓
3. $\frac{405}{256}$
4. $\frac{405}{256}$

Q.15

Let $S = \{\theta \in (0, 2\pi) : 2 \sin \theta (4 \sin \theta - \sin 3\theta) = 3\}$.

Then $\sum_{\theta \in S} \tan^2 \theta$ is equal to:

Options:

1. $4$ ✓
2. $6$
3. $12$
4. $2$

Q.16

If tangents are drawn from the point $(4, 2)$ to the hyperbola, $16x^2 - 25y^2 = 400$, then the sum of the reciprocals of the slopes of these tangents is:
Q.17 If \( S_n = \sum_{r=1}^{n} T_r = n(n+1)(n+2)(n+3) \),
then \( \sum_{r=1}^{10} \frac{1}{T_r} \) is equal to:

Options
1. \( \frac{65}{1056} \) ✅
2. \( \frac{65}{528} \)
3. \( \frac{58}{528} \)
4. \( \frac{75}{1056} \)

Q.18
A factory has two machines A and B. The machine A produces 60% of the items manufactured while the machine B produces 40% of the items. Further 2% of the items produced by the machine A are defective and 1% of that produced by the machine B are defective. If an item is drawn at random from the manufactured items, then the probability of its being defective is:

Options
1. 0.016 ✓
2. 0.014
3. 0.052
4. 0.160

Q.19 A plane passes through the points \((\alpha, 1, 0), (\alpha, 2, 1), (\alpha, 2, -1)\) and \((1, 1, 0)\) for some \(\alpha \in \mathbb{R}\). Then the distance of the point \((1, 1, 1)\) from this plane is:

Options
1. \(\frac{2}{\sqrt{11}}\)
2. \(\frac{5}{\sqrt{11}}\)
3. \(\frac{3}{\sqrt{22}}\) ✓
4. \(\frac{1}{\sqrt{22}}\)
Q.20
The mean deviation about the mean of the data in the following frequency distribution:

<table>
<thead>
<tr>
<th>x</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>frequency</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

is:

Options
1. \( \frac{5}{6} \)
2. \( \frac{5}{9} \)
3. \( \frac{13}{18} \) ✓
4. \( \frac{4}{3} \)

Q.21
The integral \( \int \frac{2}{e^{2x} - 1} \, dx \) is equal to:

(Here C is a constant of integration).

Options
1. \( -x + \log_e |e^x + e^{-x}| + C \)
2. \( -x + \log_e |e^x - e^{-x}| + C \) ✓
3. \( x + \log_e |e^x - e^{-x}| + C \)
4. \( x + \log_e |e^x + e^{-x}| + C \)

Q.22

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https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1!/2083O1951/2083O1951S2D32980/15548836180682635/MR...
If \( A^{20} = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \), where \( A = \begin{bmatrix} 1 & 1 \\ 0 & 2 \end{bmatrix} \),

then \( a + b + c + d \) is equal to:

Options 1. \( 2^{21} \)
2. \( 2^{20} \)
3. \( 2^{22} \)
4. \( 2^{19} \)

Q.23  The area (in sq. units) of the region
\[ A = \{(x, y) : 0 \leq y \leq x \leq \sqrt{2} - y\} \] is:

Options
1. \( \frac{4\sqrt{2}}{3} + \frac{7}{6} \)
2. \( \frac{2\sqrt{2}}{3} + \frac{5}{6} \)
3. \( \frac{4\sqrt{2}}{3} - \frac{7}{6} \)
4. \( \frac{2\sqrt{2}}{3} - \frac{1}{6} \)

Q.24  The number of subsets of \( \{1, 2, \ldots, 99\} \) containing at least 50 elements is:

Options
1. \( 2^{99} - 2^{49} \)
2. \( 2^{99} - 2^{50} \)
3. \( 2^{98} \)
Q.25 If the tangent to the curve, \( x^2y + \alpha y^2 = \beta \) \((\alpha, \beta \in \mathbb{R})\) at the point \((1, 1)\) on it is \(4x + 3y = 7\), then the normal to it at the point \((x_1, -5)\), \(x_1 < 0\) on the curve, is:

Options
1. \(3x + 20y + 106 = 0\)
2. \(3x + 20y + 103 = 0\)  \(\checkmark\)
3. \(3x + 4y + 23 = 0\)
4. \(3x + 4y + 26 = 0\)

Q.26 The number of solutions of the equations
\[
3x - y - z = 0 \\
-3x + 2y + z = 0 \\
-3x + z = 0
\]
such that \(x, y, z\) are non-negative integers and \(x^2 + y^2 + z^2 \leq 81\) is:

Options
1. 1
2. 3  \(\checkmark\)
3. 7
4. 2
Q.27
Let \( \overrightarrow{OA} = \overrightarrow{a} = \frac{1}{2}(\hat{i} + \hat{j} - 2\hat{k}) \),
\[ \overrightarrow{OC} = \overrightarrow{b} = \hat{i} - 2\hat{j} + \hat{k} \] and
\[ \overrightarrow{OB} = 10\overrightarrow{a} + 2\overrightarrow{b} \). Let \( p \) (in sq. units) be
the area of the quadrilateral OABC and \( q \) (in sq. units) be the area of the
parallelogram with \( \overrightarrow{OA} \) and \( \overrightarrow{OC} \) as
adjacent sides, then \( \frac{p}{q} \) is equal to :

Options
1. 8
2. 3
3. 6 \( \checkmark \)
4. 4

Q.28
The number of elements in the set,
\[ A \cap B \cap C \]
where \( A = \{(x, y) \in \mathbb{R} \times \mathbb{R} : |x| + |y| \geq 1\} \)
\[ B = \{(x, y) \in \mathbb{R} \times \mathbb{R} : x^2 + y^2 \leq 1\} \]
and \( C = \{(x, y) \in \mathbb{R} \times \mathbb{R} : \max\{|x|, |y|\} = 1\} \),
is :

Options
1. 1
2. infinitely many
3. 2
4. 4 \( \checkmark \)
Q.29

Let \( u = \frac{-1 + i\sqrt{3}}{2} \) and \( z = u - u^2 - 2 \). Then the value of \( z^4 + 3z^3 + 2z^2 - 11z - 6 \) is:

Options 1. \(-1\)
2. \(1\) \(\checkmark\)
3. \(2\)
4. \(-2\)

Q.30

Let \( \lambda \in \mathbb{R} \) and

\[
f(x) = \begin{cases} 
|\lambda| \ [x + 1], & x < -1 \\
-|\lambda|, & x = -1 \\
\lfloor \sin(\pi x) \rfloor + 2\lambda x, & x > -1 
\end{cases}
\]

where \([t]\) denotes the greatest integer function. If \( f(x) \) is continuous at \( x = -1 \), then \( \lambda \) is equal to:

Options 1. \(-\frac{1}{3}\) \(\checkmark\)
2. \(-\frac{1}{3}\)
3. \(-1\)
4. \(0\)

Section: Aptitude Test

Comprehension:

SubQuestion No : 1

Q.1
The best shadow less light is found from which of the following direction?

Options 1. East
2. North ✓
3. South
4. West

Q.2 The famous Sun Temple is located in which of the following State?

Options 1. Chattisgarh
2. Jharkhand
3. Odisha ✓
4. Bihar

Q.3 What is the thickness of a normal one brick thick wall?

Options 1. 230 mm ✓
2. 400 mm
3. 300 mm
4. 330 mm
Comprehension:

SubQuestion No : 4

Q.4 Which of the following colors is made when red and yellow colors are mixed?

Options
1. Green
2. Black
3. Orange  ✓
4. Purple

Comprehension:

SubQuestion No : 5

Q.5 Where amongst the following are the famous rock cut caves found in India?

Options
1. Bhopal
2. Allahabad
3. Bijnor
4. Ellora  ✓
SubQuestion No : 6

Q.6  Which among the following is the tallest building in Kolkata?

Options 1. The 48
2. The 46
3. The 42 ✓
4. The 45

Comprehension:

SubQuestion No : 7

Q.7  A gutter with a sloping roof is meant for which of the following?

Options 1. Decoration
2. Holding the roof
3. Draining rain water ✓
4. Protecting windows

Comprehension:

SubQuestion No : 8

Q.8  The horizontal part of a staircase is known as which of the following?

Options 1. Tread ✓
2. Rail
3. Baluster
4. Riser
Q.9 Which one of the following colors is considered to be the happiest of colors?

Options
1. Yellow ✓
2. Blue
3. Black
4. Red

Q.10 Which one of the following was usually constructed in a chaitya in a Buddhist Monastery?

Options
1. Nandi
2. Linga
3. Stupa ✓
4. Cross

Comprehension:
SubQuestion No : 11

Q.11 The Capitol Complex of Chandigarh is designed by which one of the following architect?

Options
1. Le Corbusier ✓
2. Charles Correa
3. B.V. Doshi
4. Raj Rewal

Question Type : MCQ
Question ID : 41652915436
Option 1 ID : 41652960432
Option 2 ID : 41652960431
Option 3 ID : 41652960433
Option 4 ID : 41652960430
Status : Not Answered
Chosen Option : --

SubQuestion No : 12

Q.12 In the Indian product market Ebco is known for the manufacture of which one of the following?

Options
1. Plywood
2. Glass
3. Architectural hardware ✓
4. Tiles

Question Type : MCQ
Question ID : 41652915440
Option 1 ID : 41652960446
Option 2 ID : 41652960447
Option 3 ID : 41652960448
Option 4 ID : 41652960449
Status : Marked For Review
Chosen Option : 3

SubQuestion No : 13

Q.13 The texture of a baby’s skin is which one of the following?

Options
1. Corrugated
2. Rough
3. Smooth  
4. Bumpy

Comprehension:

SubQuestion No : 14

Q.14 Who amongst the following designed the Madhya Pradesh Assembly building?

Options
1. B.V. Doshi
2. Raj Rewal
3. Charles Correa  
4. Prem Nath

Comprehension:

SubQuestion No : 15

Q.15 A gondola is a boat found mainly in the canals of which one of the following cities?

Options
1. Venice  
2. Paris
3. Frankfurt
4. London
Comprehension:

**Directions**: Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?

**SubQuestion No**: 16

Q.16

Options

1. 

2. ✔️

3. 

4. 

**Question Type**: MCQ
**Question ID**: 41652915449
**Option 1 ID**: 41652960481
**Option 2 ID**: 41652960479
**Option 3 ID**: 41652960478
**Option 4 ID**: 41652960480
**Status**: Answered
**Chosen Option**: 2

Comprehension:

**Directions**: Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?

**SubQuestion No**: 17

Q.17

Options

1. 

2. 

3. 

4. 

**Question Type**: MCQ
**Question ID**: 41652915449
**Option 1 ID**: 41652960481
**Option 2 ID**: 41652960479
**Option 3 ID**: 41652960478
**Option 4 ID**: 41652960480
**Status**: Not Answered
**Chosen Option**: --
Comprehension:
Directions: Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?

SubQuestion No: 18

Q.18

Options

1. 

2. 

3. ✓

4. 

Question Type: MCQ
Question ID: 41652915446
Option 1 ID: 41652960469
Option 2 ID: 41652960468
Option 3 ID: 41652960467
Option 4 ID: 41652960466
Status: Answered
Chosen Option: 3
Comprehension:

**Question Type:** MCQ
**Question ID:** 41652915445
**Option 1 ID:** 41652960463
**Option 2 ID:** 41652960464
**Option 3 ID:** 41652960465
**Option 4 ID:** 41652960462
**Status:** Answered
**Chosen Option:** 3

Q.19

**SubQuestion No:** 19

Directions: Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?

Options

1. ![Option 1](image1)

2. ![Option 2](image2)

3. ![Option 3](image3) **✓**

4. ![Option 4](image4)
SubQuestion No : 20

Q.20

Question Type : MCQ
Question ID : 41652915447
Option 1 ID : 41652960473
Option 2 ID : 41652960472
Option 3 ID : 41652960471
Option 4 ID : 41652960470
Status : Answered
Chosen Option : 1

Comprehension:

Directions : Which one of the answer figures will complete the sequence of the three problem figures?

SubQuestion No : 21

Q.21

Options
1.
2.
Comprehension:

Directions: Which one of the answer figures will complete the sequence of the three problem figures?

SubQuestion No : 22

Q.22

Options

1. 

2. △ △ □ □ □ □

3. △ △ □ □ □ □

4. △ △ □ □ □ □

Chosen Option : 2

Question Type : MCQ
Question ID : 41652915453
Option 1 ID : 41652960491
Option 2 ID : 41652960492
Option 3 ID : 41652960493
Option 4 ID : 41652960490
Status : Answered

SubQuestion No : 23

Q.23

Options

Question Type : MCQ
Question ID : 41652915455
Option 1 ID : 41652960498
Option 2 ID : 41652960500
Option 3 ID : 41652960499
Option 4 ID : 41652960501
Status : Answered
Chosen Option : 3
Question Type: MCQ
Question ID: 41652915454
Option 1 ID: 41652960487
Option 2 ID: 41652960488
Option 3 ID: 41652960489
Option 4 ID: 41652960490
Status: Answered
Chosen Option: 2

Comprehension:

SubQuestion No: 24

Q.24

Options

1. □ □ □
2. □ □ □
3. □ □ □
4. □ □ □
Comprehension:
Directions: Which one of the answer figure will complete the sequence of the three problem figures?

SubQuestion No : 25

Q.25

Options

1.

2.

3. ✓

4.

Comprehension:
Directions: The 3D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

SubQuestion No : 26

Q.26

Options

1.

2.
Question Type: MCQ
Question ID: 41652915459
Option 1 ID: 41652960512
Option 2 ID: 41652960513
Option 3 ID: 41652960511
Option 4 ID: 41652960510
Status: Answered
Chosen Option: 3

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

SubQuestion No: 27

Q.27

Options
1. 
2. 
3. 
4. 

Chosen Option: 3
Comprehension:
Directions: The 3D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

SubQuestion No : 28

Q.28

Options
1. 
2. 
3. 
4.   

Chosen Option : 4

Comprehension:
Directions: The 3D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

SubQuestion No : 29

Q.29

Options
1. 

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

SubQuestion No : 30

Q.30

Options

1. 

2. ✔

3. 

4. 

Question Type : MCQ
Question ID : 41652915457
Option 1 ID : 41652960505
Option 2 ID : 41652960502
Option 3 ID : 41652960503

Question Type : MCQ
Question ID : 41652915461
Option 1 ID : 41652960520
Option 2 ID : 41652960518
Option 3 ID : 41652960521
Option 4 ID : 41652960519
Status : Answered
Chosen Option : 3
Comprehension:

Directions: One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.

SubQuestion No : 31

Q.31

Options

1.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/155488361806...)

2.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/15548836180682635/MR...)

3.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/155488361806...)

4.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/155488361806...)

Option 4 ID : 41652960504
Status : Answered
Chosen Option : 2

Comprehension:

Directions: One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.

SubQuestion No : 32

Q.32

Options

1.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/155488361806...)

2.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/15548836180682635/MR...)

3.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/155488361806...)

4.  ![Image](https://cdn3.digialm.com///per/g21/pub/2083/touchstone/AssessmentQPHTMLMode1//2083O1951/2083O1951S2D32980/155488361806...)

Question Type : MCQ
Question ID : 41652915467
Option 1 ID : 41652960541
Option 2 ID : 41652960539
Option 3 ID : 41652960538
Option 4 ID : 41652960540
Status : Answered
Chosen Option : 4

Question Type : MCQ
Question ID : 41652915463
Option 1 ID : 41652960525
Option 2 ID : 41652960523
Option 3 ID : 41652960524
Option 4 ID : 41652960522
Comprehension:

Directions: One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.

SubQuestion No : 33

Q.33

Options
1. 
2. 
3. ✓
4. 

Comprehension:

Directions: One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.

SubQuestion No : 34

Q.34

Options
1. ✓
2. 
3. 
4. 

Question Type : MCQ
Question ID : 41652915464
Option 1 ID : 41652960527
Option 2 ID : 41652960528
Option 3 ID : 41652960526
Option 4 ID : 41652960529
Status : Answered
Comprehension:

Directions: One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.

SubQuestion No : 35

Q.35

Options

1. [Image]

2. [Image]

3. [Image]

4. [Image]

Chosen Option : 1

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

SubQuestion No : 36

Q.36

Options

1. [Image]

2. [Image]

Chosen Option : 1
3. [Diagram of a 3D figure]

4. [Diagram of a 3D figure]

**Comprehension:**

*Directions:* The 3D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

**Q.37**

**Options**

1. [Top view diagram]

2. [Top view diagram]

3. [Top view diagram]

4. [Top view diagram] ✅

**Question Type:** MCQ

**Question ID:** 41652915472

**Option 1 ID:** 41652960557

**Option 2 ID:** 41652960556

**Option 3 ID:** 41652960554

**Option 4 ID:** 41652960555

**Status:** Answered
Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

SubQuestion No : 38

Q.38

Options

1. 
2. 
3. 
4. 

Chosen Option : 4

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

SubQuestion No : 39

Q.39

Options

1. 

Chosen Option : 1
Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

Q.40

Options

1. 

2. 

3. ❑

4. 

Question Type: MCQ
Question ID: 41652915469
Option 1 ID: 41652960542
Option 2 ID: 41652960545
Option 3 ID: 41652960543
Option 4 ID: 41652960544
Status: Answered
Chosen Option: 1
Comprehension:

Directions: The problem figure shows the top view of an object. Identify the correct elevation from amongst the answer figures looking in the direction of the arrow.

SubQuestion No: 41

Q.41

Options

1. 

2. 

3. 

4. 

Chosen Option: 3

Comprehension:

Directions: The problem figure shows the top view of an object. Identify the correct elevation from amongst the answer figures looking in the direction of the arrow.

SubQuestion No: 42

Q.42

Options

1. 

2. 

3. 

4. 

Chosen Option: 1
Comprehension:

Directions: The problem figure shows the top view of an object. Identify the correct elevation from amongst the answer figures looking in the direction of the arrow.

SubQuestion No : 43

Options

1. 

2. 

3. 

4.
Comprehension:

Directions: The problem figure shows the top view of an object. Identify the correct elevation from amongst the answer figures looking in the direction of the arrow.

Q.44

Options

1.

2. ✓

3.

4.

Question Type: MCQ
Question ID: 41652915477
Option 1 ID: 41652960571
Option 2 ID: 41652960570
Option 3 ID: 41652960572
Option 4 ID: 41652960573
Status: Answered
Chosen Option: 2
SubQuestion No : 45

Q.45

Options

1. 

2. 

3. 

4. 

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct side view in the direction of the arrow, from amongst the answer figures.

SubQuestion No : 46

Q.46

Options

1. 

Chosen Option : --
Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct side view in the direction of the arrow, from amongst the answer figures.

SubQuestion No : 47

Q.47

Options

1. 

2. 

3. ✔

4. 

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct side view in the direction of the arrow, from amongst the answer figures.

SubQuestion No: 48

Q.48

Options

1.

2.

3. ✓

4.

Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct side view in the direction of the arrow, from amongst the answer figures.

SubQuestion No: 49

Q.49
Comprehension:

Directions: The 3D figure shows the view of an object. Identify the correct side view in the direction of the arrow, from amongst the answer figures.

SubQuestion No: 50

Q.50

Options

1. 

Status: Answered
Chosen Option: 2
2. In the space provided in the answer sheet for this question, draw margin lines to form a frame. In this frame create an aesthetic composition using only cylinders and cubes. These can be of any size and may be placed separate, overlapping or within each other. The idea is to produce an aesthetic and visually exciting composition of these shapes in the frame without making it represent any realistic form like house face etc. These shapes and the other spaces should be filled with some colors of your choice so that the visual quality of the composition is enhanced. 20 marks

3.

4. 

5. In the space provided in the answer sheet for this question, draw margin lines to form a frame. In this frame create an aesthetic composition using only cylinders and cubes. These can be of any size and may be placed separate, overlapping or within each other. The idea is to produce an aesthetic and visually exciting composition of these shapes in the frame without making it represent any realistic form like house face etc. These shapes and the other spaces should be filled with some colors of your choice so that the visual quality of the composition is enhanced. 20 marks

Q. 2

Question Type: SUBJECTIVE
Question ID: 41652915487
Status: Answered
Copy the graphic image shown in the space provided for the answer of this question. Credit will be given to the exactness of your answer. 20 marks

Q. 3 In the space provided for the answer of this question attempt any ONE of the following: 30 marks

Design and draw an appropriate pattern for a bed cover for a girls room. Color or shade it to enhance its visual quality.

OR

Draw an imaginary picture of a restaurant.

OR

Draw from imagination a picture of an Indian leader.