

# National Testing Agency

<b>Question Paper Name :</b>	B ARCH 28th Jan 2023 Shift 2
<b>Subject Name :</b>	B ARCH
<b>Creation Date :</b>	2023-01-28 23:48:16
<b>Duration :</b>	180
<b>Total Marks :</b>	400
<b>Display Marks:</b>	Yes

## **B ARCH**

<b>Group Number :</b>	1
<b>Group Id :</b>	71550529
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	400
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## **Mathematics Section A**

<b>Section Id :</b>	715505159
<b>Section Number :</b>	1

<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	715505159
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 7155052569 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let  $R_1$  and  $R_2$  be two relations on  $\mathbb{R}^2$  defined as

(a, b)  $R_1$  (c, d) if  $ad - bc \geq 0$

(a, b)  $R_2$  (c, d) if  $a + d \geq b + c$ . Then :

**Options :**

7155058081.  $R_1$  is transitive but  $R_2$  is not transitive

7155058082.  $R_2$  is transitive but  $R_1$  is not transitive

7155058083. Both  $R_1$  and  $R_2$  are transitive

7155058084. Neither  $R_1$  nor  $R_2$  is transitive

Question Number : 1 Question Id : 7155052569 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$\mathbb{R}^2$  ಮೇಲೆ  $R_1$  ಮತ್ತು  $R_2$  ಎಂಬ ಎರಡು ಸಂಬಂಧಗಳನ್ನು

(a, b)  $R_1$  (c, d)  $ad - bc \geq 0$  ಆದಾಗ,

(a, b)  $R_2$  (c, d)  $a + d \geq b + c$  ಆಗಿದೆ ಎಂದು ವ್ಯಾಖ್ಯಾನಿಸಿದರೆ, ಆಗ

Options :

7155058081.  $R_1$  ವಾಹಕವಾಗಿರುತ್ತದೆ, ಆದರೆ  $R_2$  ವಾಹಕವಾಗಿರುವುದಿಲ್ಲ

7155058082.  $R_2$  ವಾಹಕವಾಗಿರುತ್ತದೆ, ಆದರೆ  $R_1$  ವಾಹಕವಾಗಿರುವುದಿಲ್ಲ

7155058083.  $R_1$  ಮತ್ತು  $R_2$  ಎರಡೂ ಕೂಡ ವಾಹಕಗಳಾಗಿರುತ್ತವೆ

7155058084.  $R_1$  ಆಗಲಿ ಅಥವಾ  $R_2$  ಆಗಲಿ ವಾಹಕವಾಗಿರುವುದಿಲ್ಲ

Question Number : 2 Question Id : 7155052570 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let  $\alpha$  and  $\beta$  be the roots of  $x^2 - 3x + 9 = 0$ . Then  $\left( \frac{\beta^{30}}{(9\alpha)^{10}} + \frac{\alpha^{30}}{(9\beta)^{10}} \right)^2$  is equal to

Options :

7155058085. 1

7155058086.  $\frac{1}{9}$

7155058087. 3

7155058088. 9

**Question Number : 2 Question Id : 7155052570 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$\alpha$  ಮತ್ತು  $\beta$  ಗಳು  $x^2 - 3x + 9 = 0$  ಬಹುಪದದ ಎರಡು ವಿಭಿನ್ನ ಮೂಲಗಳಾಗಿರಲಿ. ಆಗ

$$\left( \frac{\beta^{30}}{(9\alpha)^{10}} + \frac{\alpha^{30}}{(9\beta)^{10}} \right)^2 \text{ ಯು :}$$

**Options :**

7155058085. 1

7155058086.  $\frac{1}{9}$

7155058087. 3

7155058088. 9

**Question Number : 3 Question Id : 7155052571 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

For  $z = 2 + 5i$ , the modulus of  $2z^3 + 21z^2 - 58z + 4$  is :

**Options :**

7155058089. 1153

7155058090. 947

7155058091. 537

7155058092. 837

**Question Number : 3 Question Id : 7155052571 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$z=2+5i$  ಗೆ  $2z^3+21z^2-58z+4$  ನ ಮೊಡ್ಡುಲೋವು :

**Options :**

7155058089. 1153

7155058090. 947

7155058091. 537

7155058092. 837

**Question Number : 4 Question Id : 7155052572 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

If the system of equations

$$Kx - \sqrt{2}y + \sqrt{5}z = \sqrt{7}$$

$$\sqrt{5}x + \sqrt{3}y - \sqrt{2}z = \sqrt{11}$$

$$30x + (3\sqrt{15} - 5\sqrt{6})y + (5\sqrt{15} - 3\sqrt{10})z = 5\sqrt{21} + 3\sqrt{55}$$

has infinitely many solutions, then  $K^2$  is

**Options :**

7155058093. 27

7155058094.  $\frac{1}{3}$

7155058095. 9

7155058096. 3

**Question Number : 4 Question Id : 7155052572 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$$Kx - \sqrt{2}y + \sqrt{5}z = \sqrt{7}$$

$$\sqrt{5}x + \sqrt{3}y - \sqrt{2}z = \sqrt{11}$$

$$30x + (3\sqrt{15} - 5\sqrt{6})y + (5\sqrt{15} - 3\sqrt{10})z = 5\sqrt{21} + 3\sqrt{55}$$

ಎಂಬ ಸಮೀಕರಣಗಳ ವ್ಯವಸ್ಥೆಯು ಅಪರಿಮಿತ ಪರಿಹಾರಗಳನ್ನು ಹೊಂದಿದ್ದರೆ  $K^2 =$

**Options :**

7155058093. 27

7155058094.  $\frac{1}{3}$

7155058095. 9

7155058096. 3

**Question Number : 5 Question Id : 7155052573 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

For  $\alpha, \beta \in \mathbb{R}$ , if the matrices  $A = \begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}$ ,  $B = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$  and  $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$  satisfy the equation

$(A*B)*2I = 20I$ , where  $*$  is defined as  $A*B = A^2 + B^2$ , then  $|\alpha\beta|$  is equal to :

**Options :**

7155058097.  $2\sqrt{3}$

7155058098.  $2\sqrt{2}$

7155058099. 4

7155058100. 2

**Question Number : 5 Question Id : 7155052573 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$\alpha, \beta \in \mathbb{R}$  ಗೆ  $A = \begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}$ ,  $B = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$ ,  $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$  ಮಾತೃಕೆಗಳು  $*$  ಯು  $A*B = A^2 + B^2$  ಎಂದು

ವ್ಯಾಖ್ಯಾನಿಸಲ್ಪಟ್ಟ ಸಮೀಕರಣ  $(A * B) * 2I = 20I$  ಅನ್ನು ತೃಪ್ತಿಗೊಳಿಸಿದರೆ  $|\alpha\beta|$  ಯ ಬೆಲೆಯು :

**Options :**

7155058097.  $2\sqrt{3}$

7155058098.  $2\sqrt{2}$

7155058099. 4

7155058100. 2

Question Number : 6 Question Id : 7155052574 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The sum of the first eleven terms of the series is  $\frac{1}{1+1^2+1^4} + \frac{2}{1+2^2+2^4} + \frac{3}{1+3^2+3^4} + \dots$

Options :

7155058101.  $\frac{61}{133}$

7155058102.  $\frac{66}{133}$

7155058103.  $\frac{16}{33}$

7155058104.  $\frac{33}{67}$

Question Number : 6 Question Id : 7155052574 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ಶ್ರೇಣಿ  $\frac{1}{1+1^2+1^4} + \frac{2}{1+2^2+2^4} + \frac{3}{1+3^2+3^4} + \dots$  ಯ ಮೊದಲ 11 ಪದಗಳ ಮೊತ್ತವು :

Options :

7155058101.  $\frac{61}{133}$

7155058102.  $\frac{66}{133}$

7155058103.  $\frac{16}{33}$



**Question Number : 7 Question Id : 7155052575 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$\lim_{x \rightarrow 0} (1 + 3x)^{\frac{x+2}{x}}$  is equal to

**Options :**

7155058105. e

7155058106.  $e^3$

7155058107.  $e^6$

7155058108.  $e^9$

**Question Number : 7 Question Id : 7155052575 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$\lim_{x \rightarrow 0} (1 + 3x)^{\frac{x+2}{x}} =$

**Options :**

7155058105. e

7155058106.  $e^3$

7155058107.  $e^6$

7155058108. e<sup>9</sup>

**Question Number : 8 Question Id : 7155052576 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let  $P(\alpha, \beta, \lambda)$  be the image of the point  $Q(1, 2, 0)$  in the line  $\frac{x-5}{3} = \frac{y-12}{1} = \frac{z-10}{2}$ , then  $(PQ)^2$  is equal to

**Options :**

7155058109. 90

7155058110. 180

7155058111. 360

7155058112. 270

**Question Number : 8 Question Id : 7155052576 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$Q(1, 2, 0)$  ಎಂಬುದು  $\frac{x-5}{3} = \frac{y-12}{1} = \frac{z-10}{2}$  ಎಂಬ ರೇಖೆಯ ಮೇಲೆ  $P(\alpha, \beta, \lambda)$  ದ ಛಾಯೆಯಾಗಿರಲಿ.

ಆಗ  $(PQ)^2 =$

**Options :**

7155058109. 90

7155058110. 180

7155058111. 360

7155058112. 270

**Question Number : 9 Question Id : 7155052577 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

A box contains 7 red and 9 white balls. The number of ways of drawing 8 balls such that there are at least three balls of each colour, is :

**Options :**

7155058113. 8820

7155058114. 10584

7155058115. 1764

7155058116. 3515

**Question Number : 9 Question Id : 7155052577 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಒಂದು ಪೆಟ್ಟಿಗೆಯು 7 ಕೆಂಪು ಮತ್ತು 9 ಬಿಳಿ ಚೆಂಡುಗಳನ್ನು ಹೊಂದಿದೆ. ಅದರಲ್ಲಿ ಕನಿಷ್ಠ ಮೂರು ಚೆಂಡುಗಳು ಎರಡೂ ಬಣ್ಣಗಳದ್ದಾಗಿದ್ದು, 8 ಚೆಂಡುಗಳನ್ನು ಹೊರತೆಗೆಯುವ ವಿಧಗಳ ಸಂಖ್ಯೆಯು :

**Options :**

7155058113. 8820

7155058114. 10584

7155058115. 1764

7155058116. 3515

**Question Number : 10 Question Id : 7155052578 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let  $[t]$  denote the greatest integer function. If  $\int_0^1 [1+x^2+x^4] dx = a$ , then  $36a - 25a^2 + 8a^3 - a^4$  is equal to

**Options :**

7155058117. 19

7155058118. -19

7155058119. 18

7155058120. -21

**Question Number : 10 Question Id : 7155052578 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$[t]$  ಎನ್ನುವುದು ಗರಿಷ್ಠ ಪೂರ್ಣಾಂಕ ಉತ್ಪನ್ನವಾಗಿರಲಿ. ಒಂದು ವೇಳೆ  $\int_0^1 [1+x^2+x^4] dx = a$ , ಆದರೆ,

$36a - 25a^2 + 8a^3 - a^4$  ನ ಬೆಲೆಯು

**Options :**

7155058117. 19

7155058118. -19

7155058119. 18

7155058120. -21

**Question Number : 11 Question Id : 7155052579 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let  $PL = 8$  units and  $QM = 2$  units be two parallel line segments such that the line segments  $PM$  and  $QL$  intersect at the point  $R$ . If  $PL$  and  $QM$  are tangents to a circle passing through points  $P, Q, R$  then radius of this circle is

**Options :**

7155058121.  $\sqrt{2}$

7155058122. 2

7155058123.  $2\sqrt{2}$

7155058124. 4

**Question Number : 11 Question Id : 7155052579 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$PL = 8$  ಮಾನಗಳು ಮತ್ತು  $QM = 2$  ಮಾನಗಳು ಇರುವ ಎರಡು ಸಮಾಂತರ ರೇಖಾಖಂಡಗಳು,  $PM$  ಮತ್ತು  $QL$  ರೇಖಾಖಂಡಗಳನ್ನು  $R$  ಎಂಬಲ್ಲಿ ಛೇದಿಸಲಿ.  $PL$  ಮತ್ತು  $QM$  ಗಳು,  $P, Q, R$  ಎಂಬ ಬಿಂದುವಿನ ಮೂಲಕ ಹಾದು ಹೋಗಿರುವ ವೃತ್ತದ ಸ್ಪರ್ಶಕಗಳಾದರೆ, ಆ ವೃತ್ತದ ತ್ರಿಜ್ಯವು

**Options :**

7155058121.  $\sqrt{2}$

7155058122. 2

7155058123.  $2\sqrt{2}$

7155058124. 4

**Question Number : 12 Question Id : 7155052580 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

For some  $\alpha \in \mathbb{N}$ , let PQR be a triangle with two fixed vertices P(2, 5) and Q( $\alpha$ , -11). If the point R moves on the line  $l_1: 9x + 7y + \alpha = 0$ , then the centroid of  $\Delta PQR$  moves on the line  $l_2$ , which is parallel to  $l_1$  at a distance  $\frac{20}{3\sqrt{130}}$  units from it. If the distance of Q from  $l_2$  is  $\frac{k}{3\sqrt{130}}$ , then k is equal to :

**Options :**

7155058125. 117

7155058126. 129

7155058127. 131

7155058128. 133

**Question Number : 12 Question Id : 7155052580 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$\alpha \in \mathbb{N}$  ಗೆ, PQR ಎನ್ನುವುದು P(2, 5) ಮತ್ತು Q( $\alpha$ , 11) ಸ್ಥಿರ ಶೃಂಗಗಳಿರುವ ತ್ರಿಭುಜವಾಗಿರಲಿ. R ಬಿಂದುವು ರೇಖೆ  $l_1: 9x + 7y + \alpha = 0$  ದ ಮೇಲೆ ಚಲಿಸುತ್ತಿದ್ದರೆ ಆಗ  $\Delta PQR$  ನ ಗುರುತ್ವ ಕೇಂದ್ರವು,  $l_1$  ನಿಂದ  $\frac{20}{3\sqrt{130}}$  ಮಾನದಷ್ಟು ದೂರವಿರುವ ಮತ್ತು ಇದಕ್ಕೆ ಸಮಾಂತರವಾಗಿರುವ ರೇಖೆ  $l_2$  ಮೇಲೆ ಚಲಿಸುತ್ತದೆ. ರೇಖೆ  $l_2$  ನಿಂದ ಬಿಂದು Q ಗೆ ಇರುವ ದೂರ  $\frac{k}{3\sqrt{130}}$  ಆಗಿದ್ದರೆ, ಆಗ k ಯ ಬೆಲೆಯು :

**Options :**

7155058125. 117

7155058126. 129

7155058127. 131

7155058128. 133

**Question Number : 13 Question Id : 7155052581 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let  $A_i(x_i, y_i)$ ,  $i = 1, 2, 3$  be points on the circle  $x^2 + y^2 = 10$  such that  $A_1$  lies in the 1<sup>st</sup> quadrant and it is the image of point  $A_2$  with respect to  $y$ -axis. If the distance of point  $A_1$  from each of the points  $A_2$  and  $A_3$  is 2, then twenty times the area of the  $\Delta A_1 A_2 A_3$  is

**Options :**

7155058129. 12

7155058130. 30

7155058131. 24

7155058132. 48

Question Number : 13 Question Id : 7155052581 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$A_i(x_i, y_i), i = 1, 2, 3$  ಗಳು  $x^2 + y^2 = 10$  ವೃತ್ತದ ಬಿಂದುಗಳಾಗಿ,  $A_1$  ಮೊದಲ ಚತುರ್ಥಕದಲ್ಲಿದ್ದು ಮತ್ತು ಇದು  $y$ -ಅಕ್ಷದಲ್ಲಿ  $A_2$  ಬಿಂದುವಿನ ಪ್ರತಿಫಲನವಾಗಿದೆ ಎಂದಿರಲಿ.  $A_2$  ಮತ್ತು  $A_3$  ಎರಡೂ ಬಿಂದುಗಳಿಂದ  $A_1$  ಗೆ ಇರುವ ದೂರವು 2 ಆಗಿದ್ದರೆ,  $\triangle A_1 A_2 A_3$  ಯ ವಿಸ್ತೀರ್ಣದ 20 ಪಟ್ಟು ದೊಡ್ಡ ಬೆಲೆಯು :

Options :

7155058129. 12

7155058130. 30

7155058131. 24

7155058132. 48

Question Number : 14 Question Id : 7155052582 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The remainder when  $7^{89}$  is divided by 15 is

Options :

7155058133. 5

7155058134. 7

7155058135. 9

7155058136. 11



**Question Number : 14 Question Id : 7155052582 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

7<sup>89</sup> ನ್ನು 15 ರಿಂದ ಭಾಗಿಸಿದಾಗ ಬರುವ ಶೇಷವು:

**Options :**

7155058133. 5

7155058134. 7

7155058135. 9

7155058136. 11

**Question Number : 15 Question Id : 7155052583 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

If the plane  $y = \alpha x - \beta z + \gamma$  passing through the point  $(1, -1, 3)$  is perpendicular to each of the planes  $2x + y + z = 1$  and  $3x - 2y + 2z = 0$ , then  $\alpha + \beta + \gamma$  is equal to :

**Options :**

7155058137. 5

7155058138. 13

7155058139. 19

7155058140. 27

**Question Number : 15 Question Id : 7155052583 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

(1, -1, 3) ಬಿಂದುವಿನ ಮೂಲಕ ಹಾದು ಹೋಗುವ ಸಮತಲ  $y = \alpha x - \beta y + \gamma z$  ಮತ್ತು  $2x + y + z = 1$  ಮತ್ತು  $3x - 2y + 2z = 0$  ಸಮತಲಗಳಿಗೆ ಲಂಬವಾಗಿದ್ದರೆ ಆದ  $\alpha + \beta + \gamma$  ನ ಬೆಲೆಯು :

**Options :**

7155058137. 5

7155058138. 13

7155058139. 19

7155058140. 27

**Question Number : 16 Question Id : 7155052584 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let  $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$ ,  $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$ ,  $\vec{c} = 2\hat{i} + \hat{j} - 4\hat{k}$  be three vectors. If  $\vec{r}$  is the vector such that

$\vec{r} \times \vec{a} = \left( \vec{b} + \vec{c} \right) \times \vec{a}$  and  $\vec{r} \cdot \left( \vec{b} - \vec{c} \right) = 0$ , then  $\vec{r} \cdot \left( \hat{i} + \hat{j} - \hat{k} \right)$  is equal to :

**Options :**

7155058141. 3

7155058142. 4

7155058143. 5

7155058144. 6

Question Number : 16 Question Id : 7155052584 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$ ,  $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$ ,  $\vec{c} = 2\hat{i} + \hat{j} - 4\hat{k}$  ಎಂಬ ಮೂರು ಸದಿಶಗಳಿವೆ.  $\vec{r} \times \vec{a} = (\vec{b} + \vec{c}) \times \vec{a}$  ಮತ್ತು

$\vec{r} \cdot (\vec{b} - \vec{c}) = 0$ , ಆಗಿರುವ  $\vec{r}$  ಎಂಬುದು ಒಂದು ಸದಿಶವಾಗಿದ್ದರೆ, ಆಗ  $\vec{r} \cdot (\hat{i} + \hat{j} - \hat{k})$  ನ ಬೆಲೆಯು

:

Options :

7155058141. 3

7155058142. 4

7155058143. 5

7155058144. 6

Question Number : 17 Question Id : 7155052585 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The probability that a randomly selected root of the equation  $1 + x + x^2 + \dots + x^{118} = 0$  satisfies the equation  $x^7 = 1$ , is

Options :

7155058145. 0

7155058146.  $\frac{1}{59}$

7155058147.  $\frac{3}{59}$

7155058148.  $\frac{7}{118}$

**Question Number : 17 Question Id : 7155052585 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$x^7 = 1$  ಸಮೀಕರಣವನ್ನು ತೃಪ್ತಿಪಡಿಸುವ  $1 + x + x^2 + \dots + x^{118} = 0$  ಸಮೀಕರಣದಿಂದ ಯಾದೃಚ್ಛಿಕವಾಗಿ ತೆಗೆದುಕೊಂಡ ಮೂಲದ ಸಂಭವನೀಯತೆಯು :

**Options :**

7155058145. 0

7155058146.  $\frac{1}{59}$

7155058147.  $\frac{3}{59}$

7155058148.  $\frac{7}{118}$

**Question Number : 18 Question Id : 7155052586 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Let X have the binomial distribution B(n, p). If its mean is 3 and variance is 2, then  $P(X < \frac{n}{4})$  is equal to :

**Options :**

7155058149.  $\frac{29 \times 2^8}{3^9}$

7155058150.  $\frac{25 \times 2^9}{3^9}$

$$7155058151. \frac{163}{3^9}$$

$$7155058152. \frac{835}{3^9}$$

**Question Number : 18 Question Id : 7155052586 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

X ಯು  $B(n, \beta)$  ನ ದ್ವಿಪದ ಹಂಚಿಕೆಯಾಗಿರಲಿ. ಒಂದು ವೇಳೆ ಸರಾಸರಿ 3 ಮತ್ತು ಭಿನ್ನತೆ 2 ಆಗಿದ್ದರೆ,  $P(X < \frac{n}{4})$  ನ ಬೆಲೆಯು :

**Options :**

$$7155058149. \frac{29 \times 2^8}{3^9}$$

$$7155058150. \frac{25 \times 2^9}{3^9}$$

$$7155058151. \frac{163}{3^9}$$

$$7155058152. \frac{835}{3^9}$$

**Question Number : 19 Question Id : 7155052587 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

The domain of the function  $f(x) = \cos^{-1}\left(\frac{x^2 - 3x + 2}{x^2 + 2x - 1}\right)$  is :

**Options :**

7155058153.  $\left(\sqrt{2}-1, \frac{3}{5}\right]$

7155058154.  $\left[\frac{3}{5}, \infty\right)$

7155058155.  $\mathbb{R} - \{-\sqrt{2}-1, \sqrt{2}-1\}$

7155058156.  $(-\infty, -1-\sqrt{2}) \cup (\sqrt{2}-1, \infty)$

**Question Number : 19 Question Id : 7155052587 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

$f(x) = \cos^{-1}\left(\frac{x^2-3x+2}{x^2+2x-1}\right)$  ಉತ್ಪನ್ನದ ಕ್ಷೇತ್ರವು :

**Options :**

7155058153.  $\left(\sqrt{2}-1, \frac{3}{5}\right]$

7155058154.  $\left[\frac{3}{5}, \infty\right)$

7155058155.  $\mathbb{R} - \{-\sqrt{2}-1, \sqrt{2}-1\}$

7155058156.  $(-\infty, -1-\sqrt{2}) \cup (\sqrt{2}-1, \infty)$

**Question Number : 20 Question Id : 7155052588 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following statements is a tautology ?

**Options :**

7155058157.  $((p \Rightarrow q) \vee p) \Rightarrow q$

7155058158.  $((p \wedge q) \Rightarrow p) \Rightarrow q$

7155058159.  $((p \wedge q) \wedge (\sim q)) \Rightarrow p$

7155058160.  $((p \Rightarrow q) \vee p) \Rightarrow p$

**Question Number : 20 Question Id : 7155052588 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೆಳಗಿನ ಯಾವ ಹೇಳಿಕೆಗಳು ನಿತ್ಯಸಮತೆಗಳಾಗಿವೆ ?

**Options :**

7155058157.  $((p \Rightarrow q) \vee p) \Rightarrow q$

7155058158.  $((p \wedge q) \Rightarrow p) \Rightarrow q$

7155058159.  $((p \wedge q) \wedge (\sim q)) \Rightarrow p$

7155058160.  $((p \Rightarrow q) \vee p) \Rightarrow p$

## Mathematics Section B

**Section Id :** 715505160

**Section Number :** 2

**Section type :** Online

**Mandatory or Optional :** Mandatory

Number of Questions :	10
Number of Questions to be attempted :	5
Section Marks :	20
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	715505160
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 21 Question Id : 7155052589 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The curve  $y = x^2 + 1$  divides the area enclosed by the curves  $y + |x| = 3$  and  $y = |x-1|$  in the ratio  $m : n$ , where  $m$  and  $n$  are coprime, then  $m + n$  is equal to \_\_\_\_\_ .

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12

Question Number : 21 Question Id : 7155052589 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$y = x^2 + 1$  ಎಂಬ ವಕ್ರವು  $y + |x| = 3$  ಮತ್ತು  $y = |x-1|$  ಎಂಬ ವಕ್ರಗಳಿಂದಾವೃತವಾದ ವಿಸ್ತೀರ್ಣವನ್ನು  $m : n$  (ಇಲ್ಲಿ  $m$  ಮತ್ತು  $n$  ಗಳು ಸಹಯುಗ್ಮಗಳು) ರ ವಿಭಾಗಿಸಿದರೆ,  $m+n$  ನ ಬೆಲೆಯು \_\_\_\_\_ .

Response Type : Numeric

Evaluation Required For SA : Yes



**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 22 **Question Id :** 7155052590 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

The number of ways in which 30 identical pens can be distributed among 12 students so that each student gets at least one pen and exactly two students get at least two pens each, is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 22 **Question Id :** 7155052590 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

ಪ್ರತಿ ವಿದ್ಯಾರ್ಥಿಯು ಕನಿಷ್ಠ ಒಂದು ಪೆನ್ ಮತ್ತು ನಿಖರವಾಗಿ ಇಬ್ಬರು ವಿದ್ಯಾರ್ಥಿಗಳು ಕನಿಷ್ಠ ಎರಡು ಪೆನ್‌ಗಳನ್ನು ಪಡೆಯಲು 12 ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ 30 ಒಂದೇ ರೀತಿಯ ಪೆನ್‌ಗಳನ್ನು ವಿತರಿಸಬಹುದಾದ ವಿಧಗಳ ಸಂಖ್ಯೆ \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

Question Number : 23 Question Id : 7155052591 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let  $(1+x^2-x^4)^{12} = \sum_{n=0}^{48} a_n x^n$ . Then  $a_0 + a_2 + a_4 + \dots + a_{44}$  is equal to

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12

Question Number : 23 Question Id : 7155052591 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$(1+x^2-x^4)^{12} = \sum_{n=0}^{48} a_n x^n$ .  $a_0 + a_2 + a_4 + \dots + a_{44} =$

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12

Question Number : 24 Question Id : 7155052592 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If  $S_n$  denotes the sum of first  $n$  terms of the series  $7 + 10 + 16 + 25 + 37 + \dots$ , then  $S_{30} - S_{20}$  is equal to \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 24 **Question Id :** 7155052592 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

$S_n$  ಎಂಬುದು  $7 + 10 + 16 + 25 + 37 + \dots$ , ಶ್ರೇಣಿಯ ಮೊದಲ  $n$  ಪದಗಳ ಮೊತ್ತ ಸೂಚಿಸಿದರೆ, ಆಗ  $S_{30} - S_{20}$  ಯು \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 25 **Question Id :** 7155052593 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

If  $[t]$  denotes the greatest integer  $\leq t$ , then the number of points, at which the function

$f(x) = [x+x^3] + |x-x^3| + \left|x + \frac{1}{2}\right|$  is not differentiable in the open interval  $(-10, 10)$ , is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 25 **Question Id :** 7155052593 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

[t] ಯು ಗರಿಷ್ಠ ಪೂರ್ಣಾಂಕ  $\leq t$  ಎಂದು ಸೂಚಿಸಿದರೆ ಆಗ  $(-10, 10)$  ತೆರೆದ ಅಂತರಾಳದಲ್ಲಿ

$f(x) = [x+x^3] + |x-x^3| + \left|x + \frac{1}{2}\right|$  ಉತ್ಪನ್ನವು ನಿಷ್ಪನ್ನಗೊಳ್ಳದಿರುವ ಬಿಂದುಗಳ ಸಂಖ್ಯೆಯು \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 26 **Question Id :** 7155052594 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

If  $\int \frac{dx}{(3x^2+5)\sqrt{10x^2+7}} = -\frac{1}{\sqrt{580}} \log_e |f(x)| + C$  where C is an arbitrary constant, then  $f(0)$  is equal to

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

Question Number : 26 Question Id : 7155052594 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$$\int \frac{dx}{(3x^2+5)\sqrt{10x^2+7}} = -\frac{1}{\sqrt{580}} \log_e |f(x)| + C \text{ ಆದಾಗ (ಇಲ್ಲಿ } C \text{ ಎಂಬುದು ಚರ ಸ್ಥಿರಾಂಕ)}, f(0) =$$

\_\_\_\_\_.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12

Question Number : 27 Question Id : 7155052595 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let the equation of the hyperbola with foci  $(1, 5)$ ,  $(1, -1)$  and eccentricity  $\sqrt{3}$  be  $x^2 - 2y^2 + ax + by + c = 0$ . Then  $|a + b + c|$  is equal to \_\_\_\_\_.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12

Question Number : 27 Question Id : 7155052595 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

(1, 5), (1, -1) ನಾಭಿಗಳನ್ನು ಮತ್ತು ಉತ್ಕೇಂದ್ರತೆ  $\sqrt{3}$  ಹೊಂದಿರುವ ಅತಿಪರವಲಯದ ಸಮೀಕರಣವು  $x^2 - 2y^2 + ax + by + c = 0$ . ಆಗಿದ್ದರೆ  $|a + b + c|$  ಯ ಬೆಲೆಯು :

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 28 **Question Id :** 7155052596 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

Let  $\alpha_1, \alpha_2$  be the values of  $\alpha$  such that the distance between the point (2, 4, 3) and the plane  $3x + y + \alpha z + 10 = 0$  is  $\sqrt{35}$  units. Then the area of the triangle with vertices  $(\alpha_1, \alpha_2, 0)$ ,  $(\alpha_2, \alpha_1, 0)$  and  $(\frac{164}{13}, 5, 0)$  is \_\_\_\_\_ unit<sup>2</sup>.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 28 **Question Id :** 7155052596 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

$\alpha_1, \alpha_2$  ಗಳು  $\alpha$  ದ ಬೆಲೆಗಳಾಗಿದ್ದು ಬಿಂದು (2, 4, 3) ಮತ್ತು ಸಮತಲ  $3x + y + \alpha z + 10 = 0$  ನಡುವಿನ ದೂರ  $\sqrt{35}$  ಮೂಲಮಾಲಗಳಾಗಿರಲಿ. ಆಗ  $(\alpha_1, \alpha_2, 0)$ ,  $(\alpha_2, \alpha_1, 0)$  ಮತ್ತು  $(\frac{164}{13}, 5, 0)$  ಶೃಂಗಗಳಿಂದಾದ ತ್ರಿಭುಜದ ವಿಸ್ತೀರ್ಣ \_\_\_\_\_ ಚದರ ಮೂಲಮಾನಗಳು.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 29 **Question Id :** 7155052597 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

Let O be the origin and let the vectors  $\overline{OA} = -3\hat{i} + 7\hat{j} + 5\hat{k}$ ,  $\overline{OB} = -5\hat{i} + 7\hat{j} - 3\hat{k}$  and  $\overline{OC} = \hat{u}$  represent three sides of a parallelepiped, where  $\hat{u}$  is a unit vector in the  $xy$ - plane. If the maximum volume of the parallelepiped is  $2\sqrt{\alpha}$ , then  $\alpha$  is equal to \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 29 **Question Id :** 7155052597 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

O ಎಂಬುದು ಮೂಲಬಿಂದುವಾಗಿ ಮತ್ತು ಸದಿಶ  $\overline{OA} = -3\hat{i} + 7\hat{j} + 5\hat{k}$ ,  $\overline{OB} = -5\hat{i} + 7\hat{j} - 3\hat{k}$  ಮತ್ತು  $\overline{OC} = \hat{u}$  ಗಳು ಸಮಾಂತರ ಘನಾಕೃತಿ ಮೂರು ಬಾಹುಗಳನ್ನು ಸೂಚಿಸಿತು. ಇಲ್ಲಿ  $\hat{u}$  ಯು  $xy$  ಸಮತಲದಲ್ಲಿನ ಏಕ ಸದಿಶವಾಗಿದೆ. ಸಮಾಂತರ ಘನಾಕೃತಿಯ ಗರಿಷ್ಠ ಘನಫಲವು  $2\sqrt{\alpha}$  ಆಗಿದ್ದರೆ,  $\alpha$  ನ ಬೆಲೆಯು \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 30 **Question Id :** 7155052598 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

If the solution curve of the differential equation  $\frac{x+y-2}{x+y-1} \frac{dy}{dx} = \frac{x+y+2}{x+y+1}, x+y > 2$  passes through the

points  $(\sqrt{2}, \sqrt{2})$  and  $(2, \alpha)$ , then  $2\alpha - \log_e \left( \frac{\alpha^2 + 4\alpha + 2}{6} \right)$  is equal to \_\_\_\_\_ .

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 30 **Question Id :** 7155052598 **Question Type :** SA **Calculator :** None

**Response Time :** N.A **Think Time :** N.A **Minimum Instruction Time :** 0

**Correct Marks :** 4 **Wrong Marks :** 1

$\frac{x+y-2}{x+y-1} \frac{dy}{dx} = \frac{x+y+2}{x+y+1}, x+y > 2$  ಎಂಬ ಅವಕಲನ ಸಮೀಕರಣದ ಪರಿಹಾರ ವಕ್ರಗಳು  $(\sqrt{2}, \sqrt{2})$

ಮತ್ತು  $(2, \alpha)$ , ಬಿಂದುಗಳ ಮೂಲಕ ಹಾದು ಹೋದರೆ  $2\alpha - \log_e \left( \frac{\alpha^2 + 4\alpha + 2}{6} \right)$  ನ ಬೆಲೆಯು

\_\_\_\_\_ .

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes



**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

## Aptitude Test

<b>Section Id :</b>	715505161
<b>Section Number :</b>	3
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	715505161
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 31 Question Id : 7155052599 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Adobe is a

**Options :**

7155058171. Type of cement

7155058172. Type of floor finish

7155058173. Type of paint

7155058174. Type of Brick

**Question Number : 31 Question Id : 7155052599 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಅಡೋಬ್‌ವು

**Options :**

7155058171. ಒಂದು ವಿಧದ ಸಿಮೆಂಟ್

7155058172. ನೆಲಹಾಸಿನ ಸಿದ್ಧತೆಯ ವಿಧಾನ

7155058173. ಪೇಂಟಿನ ವಿಧ

7155058174. ಇಟ್ಟಿಗೆ ವಿಧ

**Question Number : 32 Question Id : 7155052600 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements:

**Statement I :** Chandigarh is the first planned city of Independent India

**Statement II :** Chandigarh city was designed by Swiss French architect Le Corbusier

In the light of above statements, choose the **most appropriate** answer form the options given below

**Options :**

7155058175. Both Statement I and Statement II are correct

7155058176. Both Statement I and Statement II are incorrect

7155058177. Statement I is correct but statement II is incorrect

7155058178. Statement I is incorrect but statement II is correct

**Question Number : 32 Question Id : 7155052600 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಈ ಕೆಳಗೆ ಎರಡು ಹೇಳಿಕೆಗಳನ್ನು ನೀಡಲಾಗಿದೆ.

**ಹೇಳಿಕೆ I :** ಚಂಡೀಗಢವು ಸ್ವಾತಂತ್ರ್ಯ ಭಾರತದ ಪ್ರಥಮ ಯೋಜನಾಬದ್ಧ ನಗರವಾಗಿದೆ.

**ಹೇಳಿಕೆ II :** ಚಂಡೀಗಢ ನಗರವು ಸ್ವಿಸ್-ಫ್ರೆಂಚ್ ವಾಸ್ತು ಶಿಲ್ಪ ಶಾಸ್ತ್ರಜ್ಞ ಲೀ ಕಾರ್ಬುಸಿಯರ್ ಇವರಿಂದ ವಿನ್ಯಾಸಗೊಳಿಸಲ್ಪಟ್ಟಿದೆ.

ಮೇಲಿನ ಹೇಳಿಕೆಗಳನ್ನು ಗಮನಿಸಿ, ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ **ಅತ್ಯಂತ ಸೂಕ್ತವಾಗಿರುವ ಉತ್ತರವನ್ನು** ಆಯ್ಕೆ ಮಾಡಿ.

**Options :**

7155058175. ಹೇಳಿಕೆ I ಮತ್ತು ಹೇಳಿಕೆ II ಎರಡೂ ಸರಿಯಾಗಿವೆ

7155058176. ಹೇಳಿಕೆ I ಮತ್ತು ಹೇಳಿಕೆ II ಎರಡೂ ತಪ್ಪಾಗಿವೆ

7155058177. ಹೇಳಿಕೆ I ಸರಿಯಾಗಿದೆ ಆದರೆ ಹೇಳಿಕೆ II ತಪ್ಪಾಗಿದೆ

7155058178. ಹೇಳಿಕೆ I ತಪ್ಪಾಗಿದೆ ಆದರೆ ಹೇಳಿಕೆ II ಸರಿಯಾಗಿದೆ

**Question Number : 33 Question Id : 7155052601 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements:

**Statement I :** Glass has low thermal conductivity

**Statement II :** Glass can absorb, refract and transmit light.

In the light of above statements, choose the most appropriate answer form the options given below

**Options :**

7155058179. Both Statement I and Statement II are correct

7155058180. Both Statement I and Statement II are incorrect

7155058181. Statement I is correct but statement II is incorrect

7155058182. Statement I is incorrect but statement II is correct

**Question Number : 33 Question Id : 7155052601 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಈ ಕೆಳಗೆ ಎರಡು ಹೇಳಿಕೆಗಳನ್ನು ನೀಡಲಾಗಿದೆ.

**ಹೇಳಿಕೆ I :** ಗ್ಲಾಸ್ ಕಡಿಮೆ ಉಷ್ಣವಾಹಕತೆ ಹೊಂದಿದೆ.

**ಹೇಳಿಕೆ II :** ಗ್ಲಾಸ್ ಬೆಳಕನ್ನು ಹೀರಬಲ್ಲದು, ಪ್ರತಿಫಲನ ಮಾಡಬಲ್ಲದು ಮತ್ತು ಹಾದುಹೋಗಲು ಬಿಡಬಲ್ಲದು.

ಮೇಲಿನ ಹೇಳಿಕೆಗಳನ್ನು ಗಮನಿಸಿ, ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ **ಅತ್ಯಂತ ಸೂಕ್ತವಾಗಿರುವ** ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ.

**Options :**

7155058179. ಹೇಳಿಕೆ I ಮತ್ತು ಹೇಳಿಕೆ II ಎರಡೂ ಸರಿಯಾಗಿವೆ

7155058180. ಹೇಳಿಕೆ I ಮತ್ತು ಹೇಳಿಕೆ II ಎರಡೂ ತಪ್ಪಾಗಿವೆ

7155058181. ಹೇಳಿಕೆ I ಸರಿಯಾಗಿದೆ ಆದರೆ ಹೇಳಿಕೆ II ತಪ್ಪಾಗಿದೆ

7155058182. ಹೇಳಿಕೆ I ತಪ್ಪಾಗಿದೆ ಆದರೆ ಹೇಳಿಕೆ II ಸರಿಯಾಗಿದೆ

Question Number : 34 Question Id : 7155052602 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	PMUY	I.	KAUSHAL VISKAS YOJNA
B.	PMAY	II.	JAN DHAN YOJANA
C.	PMKVY	III.	UJJWALA YOJANA
D.	PMJDY	IV.	AWAS YOJANA

Choose the correct answer from the options given below:

Options :

7155058183. A-I, B-III, C-II, D-IV

7155058184. A-III, B-IV, C-I, D-II

7155058185. A-IV, B-II, C-III, D-I

7155058186. A-IV, B-III, C-I, D-II

Question Number : 34 Question Id : 7155052602 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ಪಟ್ಟಿ - I ರ ಜೊತೆ ಪಟ್ಟಿ - II ಅನ್ನು ಹೊಂದಿಸಿ.

ಪಟ್ಟಿ I		ಪಟ್ಟಿ II	
A.	PMUY	I.	ಕೌಶಲ್ಯ ವಿಕಾಸ ಯೋಜನಾ
B.	PMAY	II.	ಜನ್ ಧನ್ ಯೋಜನಾ
C.	PMKVY	III.	ಉಜ್ವಲಾ ಯೋಜನಾ
D.	PMJDY	IV.	ಆವಾಸ್ ಯೋಜನಾ

ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ.

Options :

7155058183. A-I, B-III, C-II, D-IV

7155058184. A-III, B-IV, C-I, D-II

7155058185. A-IV, B-II, C-III, D-I

7155058186. A-IV, B-III, C-I, D-II

**Question Number : 35 Question Id : 7155052603 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

LIST I		LIST II	
A.	CP Kukreja	I.	IIM Ahmedabad
B.	Louis I Kahn	II.	Jawahar Lal Nehru University
C.	B.V Doshi	III.	IIT Kanpur
D.	Achyut Kanvinde	IV.	IIM Bengaluru

Choose the correct answer from the options given below:

**Options :**

7155058187. A-IV, B-II, C-I, D-III

7155058188. A-III, B-I, C-II, D-IV

7155058189. A-II, B-I, C-IV, D-III

7155058190. A-I, B-IV, C-III, D-II

**Question Number : 35 Question Id : 7155052603 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಪಟ್ಟಿ - I ರ ಜೊತೆ ಪಟ್ಟಿ - II ಅನ್ನು ಹೊಂದಿಸಿ.

ಪಟ್ಟಿ I		ಪಟ್ಟಿ II	
A.	ಸಿ.ಪಿ. ಕುಕ್ಕೇಜಾ	I.	IIM ಅಹಮದಾಬಾದ್
B.	ಲೂಯಿಸ್   ಕಾಹ್ನ	II.	ಜವಾಹರ್‌ಲಾಲ್ ನೆಹರೂ ಯೂನಿವರ್ಸಿಟಿ
C.	ಬಿ.ವಿ.ದೋಶಿ	III.	IIT ಕಾನ್ಪುರ
D.	ಅಚ್ಯುತ್ ಕನ್ನಿಂಧೇ	IV.	IIM ಬೆಂಗಳೂರು

ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ.

**Options :**

7155058187. A-IV, B-II, C-I, D-III

7155058188. A-III, B-I, C-II, D-IV

7155058189. A-II, B-I, C-IV, D-III

7155058190. A-I, B-IV, C-III, D-II

**Question Number : 36 Question Id : 7155052604 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which one of these is not a complimentary colour?

**Options :**

7155058191. Blue-Orange

7155058192. Red-Green

7155058193. Blue-Green

7155058194. Violet-Yellow

**Question Number : 36 Question Id : 7155052604 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೆಲಗಿನವುಗಳಲ್ಲಿ ಯಾವುದು ಪುಸ್ತಕ ವರ್ಣವಾಗಿಲ್ಲ?

**Options :**

7155058191. ನೀಲಿ-ಕಿತ್ತಳೆ

7155058192. ಕೆಂಪು-ಹಸಿರು

7155058193. ನೀಲಿ-ಹಸಿರು

7155058194. ನೇರಳೆ-ಹಳದಿ

**Question Number : 37 Question Id : 7155052605 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

In which State of India, Robbers cave is situated:

**Options :**

7155058195. Himachal Pradesh

7155058196. Uttarakhand

7155058197. Uttar Pradesh

7155058198. Madhya Pradesh

**Question Number : 37 Question Id : 7155052605 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**



**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಭಾರತದ ಯಾವ ರಾಜ್ಯದಲ್ಲಿ, ದರೋಡೆಕೋರರ ಗುಹೆ ಕಂಡುಬರುವುದು?

**Options :**

7155058195. ಹಿಮಾಚಲ್ ಪ್ರದೇಶ

7155058196. ಉತ್ತರಾಖಂಡ್

7155058197. ಉತ್ತರ ಪ್ರದೇಶ

7155058198. ಮಧ್ಯ ಪ್ರದೇಶ

**Question Number : 38 Question Id : 7155052606 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Choose the correct option among the following:

Petronas Tower is situated in:

**Options :**

7155058199. Paris

7155058200. Dubai

7155058201. Kuala Lumpur

7155058202. New York

**Question Number : 38 Question Id : 7155052606 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೆಲಗಿನವುಗಳಲ್ಲಿ ಸರಿಯಾದ ಆಯ್ಕೆಯನ್ನು ಆರಿಸಿ.

'ಪೆಟ್ರೋನಸ್ ಟವರ್' ಎಲ್ಲಿ ನಿರ್ಮಿತವಾಗಿದೆ?

**Options :**

7155058199. ಪ್ಯಾರೀಸ್

7155058200. ದುಬೈ

7155058201. ಕೌಲಾಲಂಪುರ

7155058202. ನ್ಯೂಯಾರ್ಕ್

**Question Number : 39 Question Id : 7155052607 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

The Konark Temple is located in which state?

**Options :**

7155058203. Madhya Pradesh

7155058204. Odisha

7155058205. Karnataka

7155058206. Rajasthan

**Question Number : 39 Question Id : 7155052607 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೋನಾರ್ಕ್ ದೇವಸ್ಥಾನವು ಯಾವ ರಾಜ್ಯದಲ್ಲಿ ಕಂಡು ಬರುತ್ತದೆ?

**Options :**

7155058203. ಮಧ್ಯ ಪ್ರದೇಶ

7155058204. ಒಡಿಶಾ

7155058205. ಕರ್ನಾಟಕ

7155058206. ರಾಜಸ್ಥಾನ

**Question Number : 40 Question Id : 7155052608 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Who is the architect of the Lotus Temple?

**Options :**

7155058207. Louis I Kahn

7155058208. Mohse Safdi

7155058209. Fariborz Sahba

7155058210. Richard Meyer

**Question Number : 40 Question Id : 7155052608 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಲೋಟಸ್ ಟೆಂಪಲ್‌ನ (ಕಮಲ ದೇವಸ್ಥಾನ) ವಾಸ್ತು ಶಿಲ್ಪಿ ಯಾರು?

**Options :**

7155058207. ಲೂಯಿಸ್ I ಕಾಹ್ನ್

7155058208. ಮೊಹೈ ಸಫಿ

7155058209. ಫಾರಿಬೊರ್ಜ್ ಸಹಾಪ್

7155058210. ರಿಚರ್ಡ್ ಮೆಯೆರ್

**Question Number : 41 Question Id : 7155052609 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

A small lift for carrying only a small load is known as:

**Options :**

7155058211. A dead Bearer

7155058212. A Dumb Waiter

7155058213. A Jockey Boy

7155058214. A push upper

**Question Number : 41 Question Id : 7155052609 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಸಣ್ಣ ಭಾರದ (ಸಣ್ಣ ತೂಕ) ಸಾಗಾಟ ಮಾಡುವುದಕ್ಕಾಗಿರುವ ಚಿಕ್ಕ ಲಿಫ್ಟನ್ನು ಕರೆಯುವುದು:

**Options :**

7155058211. ಒಂದು ಡೆಡ್ ಬಿಯರರ್

7155058212. ಒಂದು ಡಂಬ್ ವೆಯಟರ್

7155058213. ಒಂದು ಜಾಕಿ ಬಾಯ್

7155058214. ಒಂದು ಪುಷ್ ಅಪ್ಪರ್

**Question Number : 42 Question Id : 7155052610 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which are often referred as 'twin cities' of Odisha?

**Options :**

7155058215. Bhubaneswar-Puri

7155058216. Puri-Cuttack

7155058217. Bhubaneswar-Cuttack

7155058218. Bhubaneswar-Rourkela

**Question Number : 42 Question Id : 7155052610 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೆಳಗಿನ ಯಾವುಗಳನ್ನು ಒರಿಸ್ಸಾದ ಅವಳಿ ನಗರಗಳೆಂದು ಸಹಜವಾಗಿ ಭಾವಿಸಲಾಗಿದೆ?

**Options :**

7155058215. ಭುವನೇಶ್ವರ್-ಪುರಿ

7155058216. ಪುರಿ-ಕಟಕ್

7155058217. ಭುವನೇಶ್ವರ್-ಕಟಕ್

7155058218. ಭುವನೇಶ್ವರ್-ರೂರ್ಕೆಲ

**Question Number : 43 Question Id : 7155052611 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which is the correct chronology of Human Civilizations in terms of their existence?

**Options :**

7155058219. Mesopotamia-Harappa-Egyptian-Chinese

7155058220. Mesopotamia-Egyptian-Harappa-Chinese

7155058221. Mesopotamia-Chinese-Harappa-Egyptian

7155058222. Egyptian-Mesopotamia-Harappa-Sumerian

**Question Number : 43 Question Id : 7155052611 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಮಾನವ ನಾಗರಿಕತೆಗಳ ಅಸ್ತಿತ್ವದಂತೆ ಅವುಗಳ ಸರಿಯಾದ ಕಾಲಾನುಕ್ರಮವು

**Options :**

7155058219. ಮೆಸಪೆಟೋಮಿಯಾ-ಹರಪ್ಪಾ-ಈಜಿಪ್ತರು-ಚೀನೀಯರು

7155058220. ಮೆಸಪೆಟೋಮಿಯಾ-ಈಜಿಪ್ತರು-ಹರಪ್ಪಾ-ಚೀನೀಯರು

7155058221. ಮೆಸಪೆಟೋಮಿಯಾ-ಚೀನೀಯರು-ಹರಪ್ಪಾ-ಈಜಿಪ್ತರು

7155058222. ಈಜಿಪ್ತರು-ಮೆಸಪೆಟೋಮಿಯಾ-ಹರಪ್ಪಾ-ಸುಮೇರಿಯನ್ನರು

**Question Number : 44 Question Id : 7155052612 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Qutub-Minar in Delhi was built by:

**Options :**

7155058223. Shah Jahan

7155058224. Jahangir

7155058225. Akbar

7155058226. Qutub ud-din Aibak

**Question Number : 44 Question Id : 7155052612 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ದೆಹಲಿಯ ಕುತುಬ್ ಮಿನಾರ್ ನಿರ್ಮಿಸಿದವರು:

**Options :**

7155058223. ಶಹಾ ಜಹಾನ್

7155058224. ಜಹಾಂಗೀರ್

7155058225. ಅಕ್ಬರ್

7155058226. ಕುತುಬ್ ಉದ್ದೀನ್ ಐಬಕ್

**Question Number : 45 Question Id : 7155052613 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which direction in the southern hemisphere would you get glare free (diffused) light throughout the year?

**Options :**

7155058227. North

7155058228. South

7155058229. East

7155058230. West

**Question Number : 45 Question Id : 7155052613 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ದಕ್ಷಿಣ ಅರ್ಧಗೋಳದ ಯಾವ ದಿಕ್ಕಿನಲ್ಲಿ ವರ್ಷ ಪೂರ್ತಿ ಚದುರಿದ (ಗ್ಲೇರ್ ಮುಕ್ತ) ಬೆಳಕನ್ನು ಪಡೆಯಲಾಗುವುದು?

**Options :**

7155058227. ಉತ್ತರ

7155058228. ದಕ್ಷಿಣ

7155058229. ಪೂರ್ವ

7155058230. ಪಶ್ಚಿಮ



**Question Number : 46 Question Id : 7155052614 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Who is the architect of the famous "Jawaharlal Kala Complex" in Jaipur?

**Options :**

7155058231. Raj Rewal

7155058232. Charles Correa

7155058233. Achyut Kanvinde

7155058234. Hafeez Contractor

**Question Number : 46 Question Id : 7155052614 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಜೈಪುರದಲ್ಲಿರುವ ಪ್ರಸಿದ್ಧಿಯಾದ "ಜವಾಹರ್‌ಲಾಲ್ ಕಲಾ ಸಂಕೀರ್ಣ"ದ ವಾಸ್ತು ಶಿಲ್ಪಿ ಯಾರು?

**Options :**

7155058231. ರಾಜ್ ರೇವಾಲ್

7155058232. ಚಾರ್ಲ್ಸ್ ಕೊರ್ರೆ

7155058233. ಅಚ್ಯುತ್ ಕನ್ವಿಂದೆ

7155058234. ಹಫೀಜ್ ಕಾಂಟ್ರಾಕ್ಟರ್

**Question Number : 47 Question Id : 7155052615 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Dhajji-Dewari is a construction style popular predominantly in \_\_\_\_\_.

**Options :**

7155058235. Coastal Areas

7155058236. Plains

7155058237. Mountainous Region

7155058238. Desert Areas

**Question Number : 47 Question Id : 7155052615 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಧಜ್ಜಿ- ದೇವರಿ ಜನಪ್ರಿಯ ನಿರ್ಮಾಣ ಶೈಲಿಯಾಗಿ ಪ್ರಭಾವ ಹೊಂದಿರುವುದು \_\_\_\_\_.

**Options :**

7155058235. ತೀರ ಪ್ರದೇಶಗಳಲ್ಲಿ

7155058236. ಸಮತಟ್ಟಾದ ಪ್ರದೇಶಗಳಲ್ಲಿ

7155058237. ಬೆಟ್ಟ ಪ್ರದೇಶಗಳಲ್ಲಿ

7155058238. ಮರುಭೂಮಿ ಪ್ರದೇಶಗಳಲ್ಲಿ

**Question Number : 48 Question Id : 7155052616 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Which stone is used for roofing in mountainous regions?

**Options :**

7155058239. Marble

7155058240. Granite

7155058241. Shale

7155058242. Sand Stone

**Question Number : 48 Question Id : 7155052616 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಬೆಟ್ಟ-ಗುಡ್ಡಗಳ ವಲಯಗಳಲ್ಲಿ ಮೇಲ್ವಾವಣಿಗಾಗಿ ಉಪಯೋಗಿಸುವ ಶಿಲೆ ಯಾವುದು?

**Options :**

7155058239. ಅಮೃತ ಶಿಲೆ (ಮಾರ್ಬಲ್)

7155058240. ಗ್ರಾನೈಟ್

7155058241. ಶಿಲೆ

7155058242. ಸ್ಯಾಂಡ್ ಸ್ಟೋನ್

**Question Number : 49 Question Id : 7155052617 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Chandigarh is an example of which type of city planning.

**Options :**

7155058243. Radio Centric

7155058244. Grid-iron

7155058245. Linear

7155058246. Organic

**Question Number : 49 Question Id : 7155052617 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಚಂಡೀಗಢವು ಯಾವ ವಿಧದ ನಗರ ಯೋಜನೆಗೆ ಉದಾಹರಣೆಯಾಗಿದೆ?

**Options :**

7155058243. ರೇಡಿಯೋ ಕೇಂದ್ರಿತ

7155058244. ಸರಳ- ಕಬ್ಬಿಣ

7155058245. ರೇಖೀಯ

7155058246. ಸಾವಯವ

**Question Number : 50 Question Id : 7155052618 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

If you have to build on the seashore in Goa, which rooms would have the best view of the sea?

**Options :**

7155058247. Those facing North

7155058248. Those facing South

7155058249. Those facing East

7155058250. Those facing West

**Question Number : 50 Question Id : 7155052618 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಗೋವಾದ ಸಮುದ್ರ ತೀರದ ಮೇಲೆ ಕೋಣೆಗಳನ್ನು ನಿರ್ಮಾಣ ಮಾಡಬಹುದಾದರೆ ಅತ್ಯುತ್ತಮ ಸಮುದ್ರ ವೀಕ್ಷಣೆಗೆ ಉತ್ತಮವಾಗಿರುವ ಕೋಣೆಗಳು ಯಾವುವು?

**Options :**

7155058247. ಉತ್ತರದ ಕಡೆಗೆ ಮುಖ ಮಾಡಿರುವವುಗಳು

7155058248. ದಕ್ಷಿಣದ ಕಡೆಗೆ ಮುಖ ಮಾಡಿರುವವುಗಳು

7155058249. ಪೂರ್ವದ ಕಡೆಗೆ ಮುಖ ಮಾಡಿರುವವುಗಳು

7155058250. ಪಶ್ಚಿಮದ ಕಡೆಗೆ ಮುಖ ಮಾಡಿರುವವುಗಳು

**Question Number : 51 Question Id : 7155052619 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

"NIFT" National Institute of Fashion Technology, Delhi is designed by

**Options :**

7155058251. B.V Doshi

7155058252. C.P Kukreja

7155058253. Raj Rewal

7155058254. Bimal Patel

**Question Number : 51 Question Id : 7155052619 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

"NIFT" ರಾಷ್ಟ್ರೀಯ ಫ್ಯಾಷನ್ (ನಾವೀನ್ಯತೆ) ತಾಂತ್ರಿಕ ಸಂಸ್ಥೆ, ದೆಹಲಿಯನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಸಿದ್ಧಪಡಿಸಿದವರು

**Options :**

7155058251. ಬಿ.ವಿ.ದೋಶಿ

7155058252. ಸಿ.ಪಿ.ಕುಕ್ಕೇಜಾ





7155058253. ರಾಜ್ ರಾವಲ್

7155058254. ಬಿಮಲ್ ಪಟೇಲ್

**Question Number : 52 Question Id : 7155052620 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

LIST I		LIST II	
A.		I.	Empire state Building
B.		II.	Hagia Sophia
C.		III.	Sydney Opera House
D.		IV.	Colosseum

Choose the correct answer from the options given below:

**Options :**

7155058255. A-II, B-I, C-IV, D-III

7155058256. A-I, B-III, C-IV, D-II





7155058257. A-I, B-II, C-III, D-IV

7155058258. A-IV, B-III, C-II, D-I

Question Number : 52 Question Id : 7155052620 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ಪಟ್ಟಿ - I ರ ಜೊತೆ ಪಟ್ಟಿ - II ಅನ್ನು ಹೊಂದಿಸಿ.

ಪಟ್ಟಿ - I		ಪಟ್ಟಿ - II	
A.		I.	ಎಂಪೈರ್ ಸ್ಟೇಟ್ ಕಟ್ಟಡ
B.		II.	ಹೇಜಿಯಾ ಸೋಫಿಯಾ
C.		III.	ಸಿಡ್ನಿ ಒಪೆರಾ ಹೌಸ್
D.		IV.	ಕೊಲಿಸಿಯಂ

ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ:

Options :

7155058255. A-II, B-I, C-IV, D-III

7155058256. A-I, B-III, C-IV, D-II







7155058257. A-I, B-II, C-III, D-IV

7155058258. A-IV, B-III, C-II, D-I

**Question Number : 53 Question Id : 7155052621 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**  
Match List I with List II

LIST I		LIST II	
A.		I.	Tesla
B.		II.	Ferrari
C.		III.	Porsche
D.		IV.	Toyota

Choose the correct answer from the options given below:

**Options :**

7155058259. A-IV, B-I, C-II, D-III

7155058260. A-II, B-III, C-I, D-IV





7155058261. A-III, B-II, C-I, D-IV

7155058262. A-IV, B-III, C-II, D-I

Question Number : 53 Question Id : 7155052621 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ಪಟ್ಟಿ - I ರ ಜೊತೆ ಪಟ್ಟಿ - II ಅನ್ನು ಹೊಂದಿಸಿ.

	ಪಟ್ಟಿ I		ಪಟ್ಟಿ II
A.		I.	ಟೆಸ್ಲಾ
B.		II.	ಫೆರಾರಿ
C.		III.	ವೋರ್ಷೆ
D.		IV.	ಟೆಲಿಯೊಟಾ

ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ:

**Options :**

7155058259. A-IV, B-I, C-II, D-III

7155058260. A-II, B-III, C-I, D-IV

7155058261. A-III, B-II, C-I, D-IV

7155058262. A-IV, B-III, C-II, D-I

**Question Number : 54 Question Id : 7155052622 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements:

**Statement I :** Red, Blue and Yellow are the primary colours of a colour wheel.

**Statement II :** The colours which are positioned opposite to each other in a colour wheel are known as complementary colours.

In the light of above statements, choose the correct answer form the options given below

**Options :**

7155058263. Both Statement I and Statement II are correct

7155058264. Both Statement I and Statement II are incorrect

7155058265. Statement I is correct but statement II is incorrect

7155058266. Statement I is incorrect but statement II is correct

**Question Number : 54 Question Id : 7155052622 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಈ ಕೆಳಗೆ ಎರಡು ಹೇಳಿಕೆಗಳನ್ನು ನೀಡಲಾಗಿದೆ.

**ಹೇಳಿಕೆ I :** ವಿದ್ಯುದೀಯ ಶುದ್ಧೀಕರಣದಲ್ಲಿ, ಶುದ್ಧ ಲೋಹವನ್ನು ಆನೋಡ್‌ಆಗಿ ಮಾಡಲಾಗಿದ್ದು, ಮತ್ತು ಅಶುದ್ಧ ಲೋಹೀಯ ರೂಪವನ್ನು ಕ್ಯಾಥೋಡ್‌ಆಗಿ ಉಪಯೋಗಿಸಲಾಗಿದೆ.

**ಹೇಳಿಕೆ II :** ಹಾಲ್‌ಹೆರಾಲ್ಟ್‌ವಿದ್ಯುದ್ವಿಶ್ಲೇಷಣ ವಿಧಾನದಲ್ಲಿ, ಶುದ್ಧೀಕರಿಸಿದ  $Al_2O_3$  ಅನ್ನು  $Na_3AlF_6$  ನೊಂದಿಗೆ ಮಿಶ್ರಣದ ದ್ರವೀಕರಣ ಬಿಂದುವನ್ನು ತಗ್ಗಿಸಲು ಸೇರಿಸಲಾಗುವುದು.

ಮೇಲಿನ ಹೇಳಿಕೆಗಳನ್ನು ಗಮನಿಸಿ, ಕೆಳಗಿನ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ.

**Options :**

7155058263. ಹೇಳಿಕೆ | ಮತ್ತು ಹೇಳಿಕೆ || ಎರಡೂ ಸರಿಯಾಗಿವೆ

7155058264. ಹೇಳಿಕೆ | ಮತ್ತು ಹೇಳಿಕೆ || ಎರಡೂ ತಪ್ಪಾಗಿವೆ

7155058265. ಹೇಳಿಕೆ | ಸರಿಯಾಗಿದೆ ಆದರೆ ಹೇಳಿಕೆ || ತಪ್ಪಾಗಿದೆ

7155058266. ಹೇಳಿಕೆ | ತಪ್ಪಾಗಿದೆ ಆದರೆ ಹೇಳಿಕೆ || ಸರಿಯಾಗಿದೆ

**Question Number : 55 Question Id : 7155052623 Question Type : MCQ Option Shuffling : Yes Is**

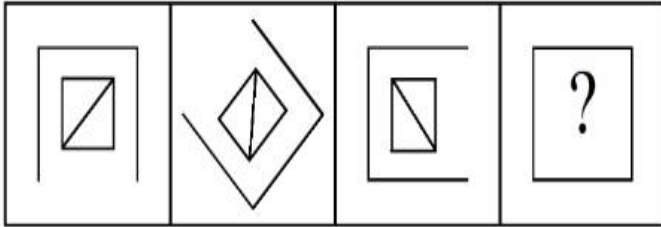
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

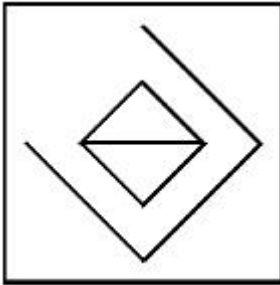
**Correct Marks : 4 Wrong Marks : 1**

Following question consists of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.

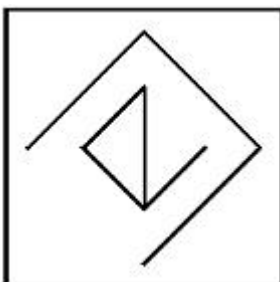
PROBLEM FIGURES



**Options :**

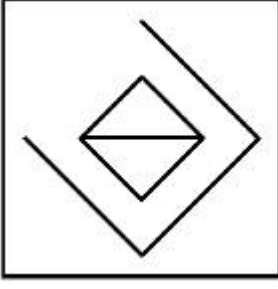


7155058267.

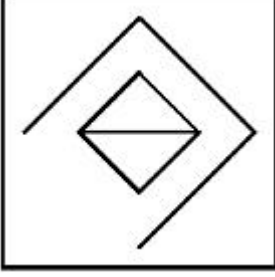


7155058268.

7155058269.



7155058270.

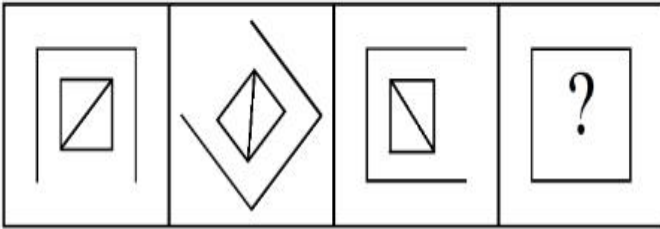


**Question Number : 55 Question Id : 7155052623 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

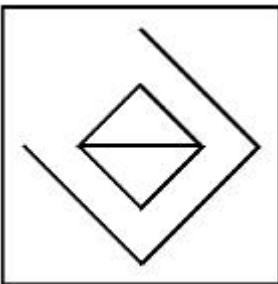
**Correct Marks : 4 Wrong Marks : 1**

ಮುಂದಿನ ಪ್ರಶ್ನೆಗಳಲ್ಲಿ ಪ್ರಶ್ನೆ ಚಿತ್ರಗಳು ತರುವಾಯ ಉತ್ತರ ಚಿತ್ರಗಳಿರುವವು. ಉತ್ತರ ಚಿತ್ರಗಳಲ್ಲಿ ಯಾವುದು ಪ್ರಶ್ನೆ ಚಿತ್ರಗಳ ಮಾದರಿಯನ್ನು ಮುಂದುವರಿಸುವುದಾಗಿದೆ ಆರಿಸಿ.

**ಪ್ರಶ್ನೆ ಚಿತ್ರಗಳು**

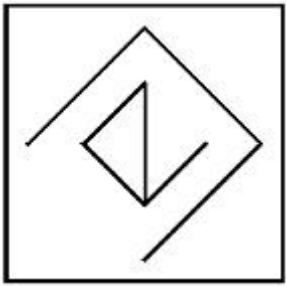


**Options :**

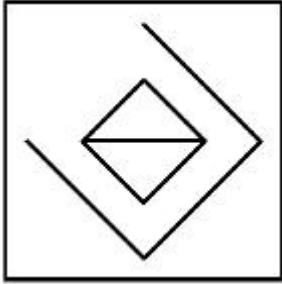


7155058267.

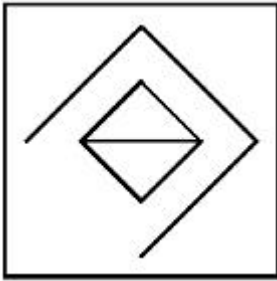
7155058268.



7155058269.



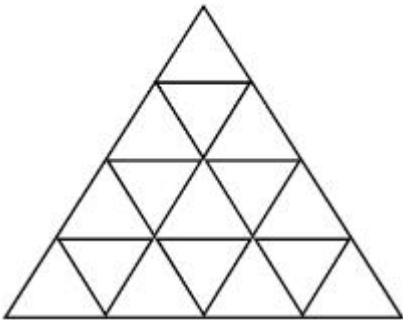
7155058270.



**Question Number : 56 Question Id : 7155052624 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

How many triangles are there in given figure:-



**Options :**

7155058271. 26

7155058272. 25

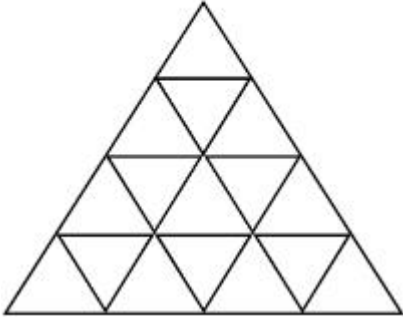
7155058273. 27

7155058274. 24

**Question Number : 56 Question Id : 7155052624 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೊಟ್ಟಿರುವ ಚಿತ್ರದಲ್ಲಿ ಎಷ್ಟು ತ್ರಿಕೋನಗಳಿರುವವು?



**Options :**

7155058271. 26

7155058272. 25

7155058273. 27

7155058274. 24

**Question Number : 57 Question Id : 7155052625 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Find the odd one out:-

7, 9, 25, 32, 43, 59

**Options :**

7155058275. 59

7155058276. 32

7155058277. 25

7155058278. 9

**Question Number : 57 Question Id : 7155052625 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಭಿನ್ನವಾದದ್ದನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.

7, 9, 25, 32, 43, 59

**Options :**

7155058275. 59

7155058276. 32

7155058277. 25

7155058278. 9

**Question Number : 58 Question Id : 7155052626 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**



**Correct Marks : 4 Wrong Marks : 1**

A residential building has 15 floors. The height of ground floor is 4.2 meter (including length and slab thickness). Rest all other floors are of 3.3 meter high (including slab thickness). What is the total height of the building (from ground to terrace) in meters?

**Options :**

7155058279. 45.6 meter

7155058280. 50 meter

7155058281. 50.4 meter

7155058282. 51.6 meter

**Question Number : 58 Question Id : 7155052626 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಒಂದು ವಸತಿ ಕಟ್ಟಡದಲ್ಲಿ 15 ಮಹಡಿಗಳು ಇರುವವು. ನೆಲ ಮಹಡಿಯ ಎತ್ತರವು (ಉದ್ದ ಹಾಗೂ ನೆಲಹಾಸುವ ಕಲ್ಲಿನ ದಪ್ಪವನ್ನು ಸೇರಿಸಿ) 4.2 ಮೀಟರ್ ಇರುವುದು. ಉಳಿದ ಎಲ್ಲಾ ಮಹಡಿಗಳು (ಹಾಸುಗಲ್ಲಿನ ದಪ್ಪವನ್ನು ಸೇರಿಕೊಂಡು) 3.3 ಮೀಟರ್ ಎತ್ತರವಾಗಿರುವವು (ಭೂಮಿಯಿಂದ ಮೇಲ್ಪಾವಣೆವರೆಗೆ). ಕಟ್ಟಡದ ಒಟ್ಟು ಎತ್ತರ ಎಷ್ಟು? (ಮೀಟರ್‌ಗಳಲ್ಲಿ)

**Options :**

7155058279. 45.6 ಮೀಟರ್

7155058280. 50 ಮೀಟರ್

7155058281. 50.4 ಮೀಟರ್

7155058282. 51.6 ಮೀಟರ್

**Question Number : 59 Question Id : 7155052627 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Identify the mirror image of the given word:-

SUCCESS

**Options :**

7155058283. 22ECCU2

7155058284. 22ECCU2

7155058285. SUCCESS

7155058286. SSECCUS

**Question Number : 59 Question Id : 7155052627 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೊಟ್ಟಿರುವ ಪದದ ದರ್ಪಣ ಬಿಂಬವನ್ನು ಕಂಡು ಹಿಡಿಯಿರಿ.

SUCCESS

**Options :**

7155058283. 22ECCU2

7155058284. 22ECCU2

7155058285. SUCCESS

**Question Number : 60 Question Id : 7155052628 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

The scale of a map is 1:1000. If a car travels 7 cm from point 'A' to point 'B' on the Map. Then how much the car has travelled in original:-

**Options :**

7155058287. 0.7 km

7155058288. 7000 mm

7155058289. 7 km

7155058290. 70 meter

**Question Number : 60 Question Id : 7155052628 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಒಂದು ನಕ್ಷೆಯ ಸ್ಕೇಲ್ 1:1000 ಆಗಿದೆ. ನಕ್ಷೆಯಲ್ಲಿ ಬಿಂದು 'A' ನಿಂದ ಬಿಂದು 'B'ಗೆ ಕಾರು 7 cm ಪ್ರಯಾಣಿಸಿದರೆ, ನಿಜವಾಗಿಯೂ ಕಾರು ಪ್ರಯಾಣ ಮಾಡಿದ್ದು ಎಷ್ಟು?

**Options :**

7155058287. 0.7 ಕಿ.ಮೀ

7155058288. 7000 ಮಿ.ಮೀ

7155058289. 7 ಕಿ.ಮೀ

7155058290. 70 ಮೀಟರ್

**Question Number : 61 Question Id : 7155052629 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

A land size of 80 meter  $\times$  40 meter for a house design is drawn on paper at a scale of 1:100, then what size is drawn on paper to represent the land?

**Options :**

7155058291. 8 meter  $\times$  4 meter

7155058292. 80 meter  $\times$  40 meter

7155058293. 8 centimeter  $\times$  4 centimeter

7155058294. 4 meter  $\times$  2 meter

**Question Number : 61 Question Id : 7155052629 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಪೇಪರ್ ಮೇಲೆ ಮನೆಯ ವಿನ್ಯಾಸಕ್ಕಾಗಿ ಭೂಗಾತ್ರವು 80 ಮೀಟರ್  $\times$  40 ಮೀಟರ್‌ಗಳನ್ನು 1:100 ಸ್ಕೇಲ್‌ನಲ್ಲಿ ಎಳೆಯಲಾಗಿದೆ. ಹಾಗಾದರೆ ಭೂಮಿಗಾಗಿ ಪೇಪರ್ ಮೇಲೆ ಎಳೆದ ಗಾತ್ರವೇನು?

**Options :**

7155058291. 8 ಮೀಟರ್  $\times$  4 ಮೀಟರ್

7155058292. 80 ಮೀಟರ್  $\times$  40 ಮೀಟರ್

7155058293. 8 ಸೆಂಟಿಮೀಟರ್  $\times$  4 ಸೆಂಟಿಮೀಟರ್

7155058294. 4 ಮೀಟರ್ × 2 ಮೀಟರ್

**Question Number : 62 Question Id : 7155052630 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

Find the missing number in given series.

16, 33, 65, 131, 261, (.....)

**Options :**

7155058295. 523

7155058296. 521

7155058297. 524

7155058298. 520

**Question Number : 62 Question Id : 7155052630 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಕೊಟ್ಟಿರುವ ಸರಣಿಯಲ್ಲಿ ಕಾಣೆಯಾಗಿರುವ ಸಂಖ್ಯೆಯನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.

16, 33, 65, 131, 261, (.....)

**Options :**

7155058295. 523

7155058296. 521

7155058297. 524

7155058298. 520

**Question Number : 63 Question Id : 7155052631 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

In a code language if ROMAN is written as TQOCP: then ITALY is.....

**Options :**

7155058299. KVCMA

7155058300. KWCNB

7155058301. KUCLA

7155058302. KVCNA

**Question Number : 63 Question Id : 7155052631 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಒಂದು ಸಂಕೇತ ಭಾಷೆಯಲ್ಲಿ ROMAN ನ್ನು TQOCP ಆಗಿ ಬರೆದರೆ, ಅಗ ITALY ಯು .....

**Options :**

7155058299. KVCMA

7155058300. KWCNB

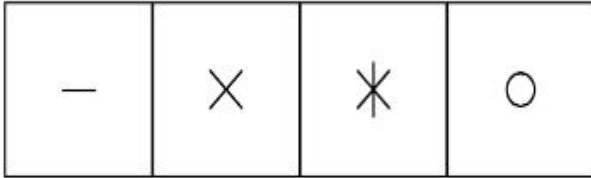
7155058301. KUCLA

7155058302. KVCNA

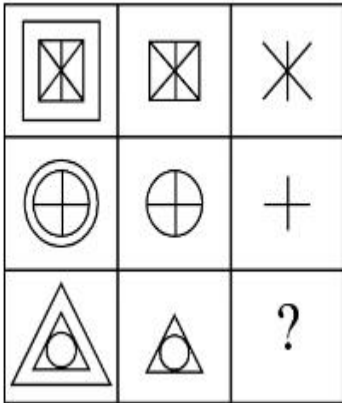
Question Number : 64 Question Id : 7155052632 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Select a suitable figure from the four alternatives which will come in the empty box.



(A) (B) (C) (D)



Options :

7155058303. D

7155058304. C

7155058305. B

7155058306. A

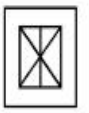
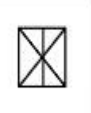







Question Number : 64 Question Id : 7155052632 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ನಾಲ್ಕು ಆಯ್ಕೆಗಳಲ್ಲಿ ಖಾಲಿ ಬಾಕ್ಸ್ (ಚೌಕ) ನಲ್ಲಿ ಕಂಡುಬರುವ ಸೂಕ್ತ ಚಿತ್ರವನ್ನು ಆರಿಸಿ.

—	×	*	○
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(A) (B) (C) (D)

Options :

7155058303. D

7155058304. C

7155058305. B

7155058306. A

Question Number : 65 Question Id : 7155052633 Question Type : MCQ Option Shuffling : Yes Is

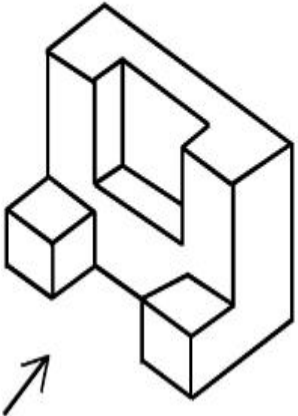
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

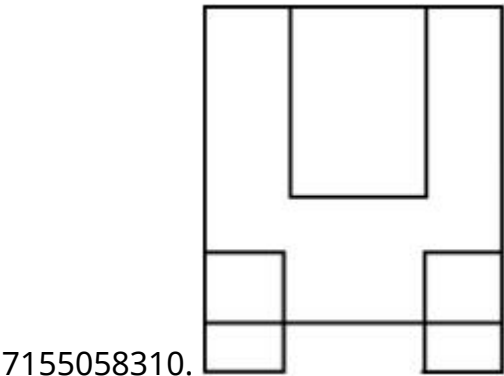
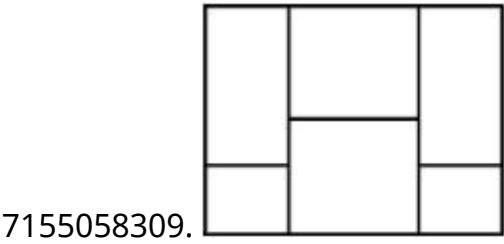
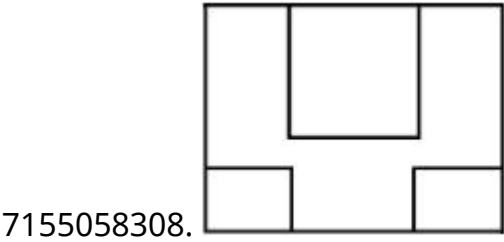
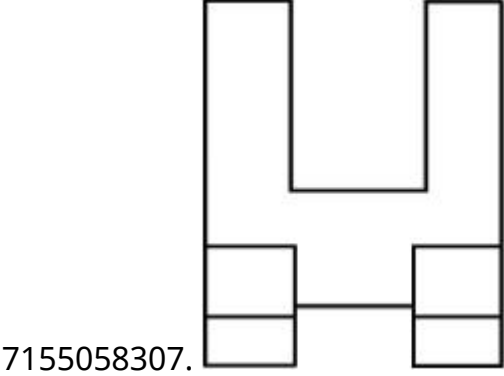
Correct Marks : 4 Wrong Marks : 1



The 3D figure shows the view of an object. Looking in the direction of arrow, identify the most appropriate elevation from the given answer figures.



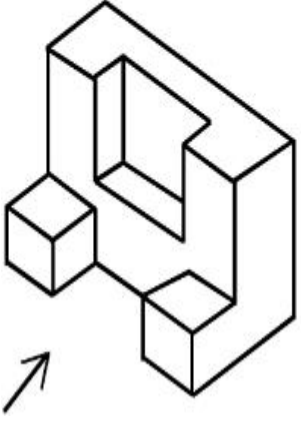
Options :



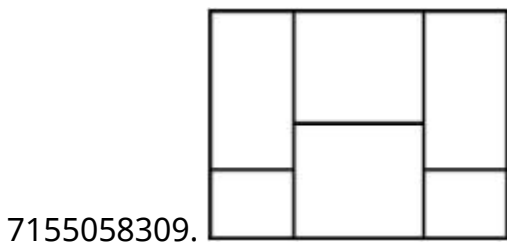
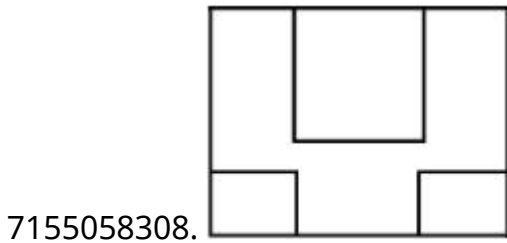
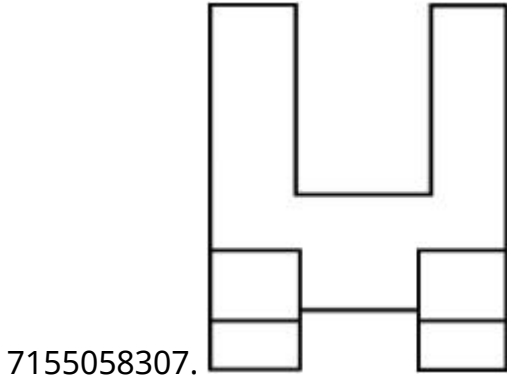
Question Number : 65 Question Id : 7155052633 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

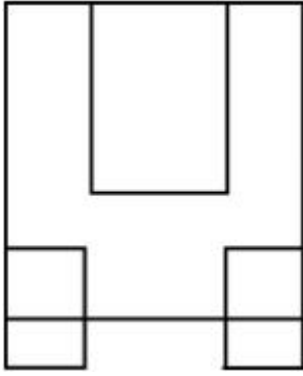
3D ಚಿತ್ರವು ಒಂದು ವಸ್ತುವಿನ ನೋಟವನ್ನು ತೋರುವುದು. ಬಾಣದ ದಿಕ್ಕಿನಲ್ಲಿ ವೀಕ್ಷಿಸಿ,  
ಕೊಟ್ಟಿರುವ ಉತ್ತರ ಚಿತ್ರಗಳಲ್ಲಿ, ಅತ್ಯಂತ ಸೂಕ್ತವಾಗಿರುವ ಎಲೆವೇಶನ್ (ಮುಮ್ಮುಖ ನೋಟ)  
ವನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.



Options :



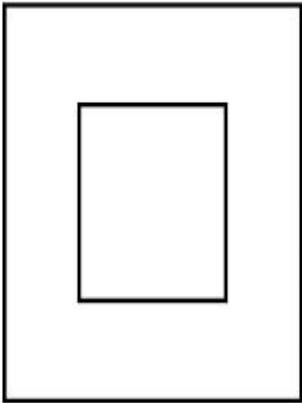
7155058310.



**Question Number : 66 Question Id : 7155052634 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

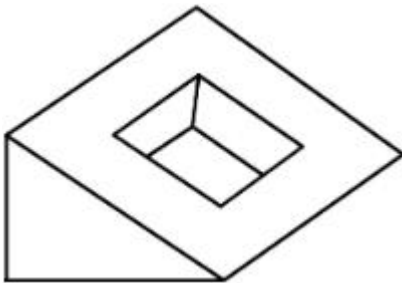
**Correct Marks : 4 Wrong Marks : 1**

Question figure shows top view/ plan of an object. Identify the INCORRECT 3D view from the given answers figure.

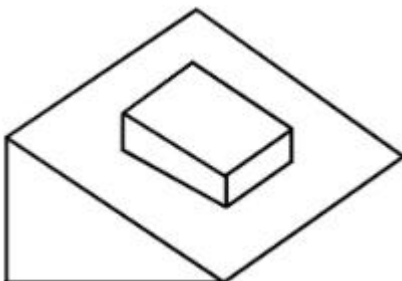


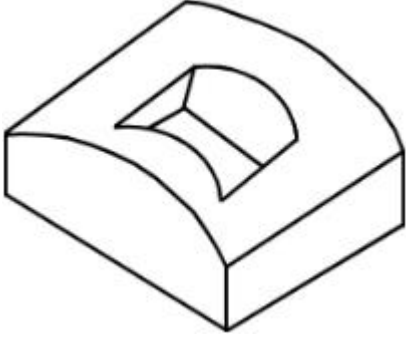
**Options :**

7155058311.

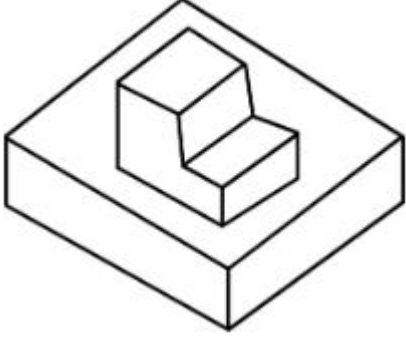


7155058312.





7155058313.

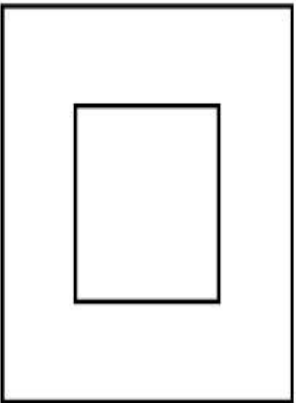


7155058314.

**Question Number : 66 Question Id : 7155052634 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

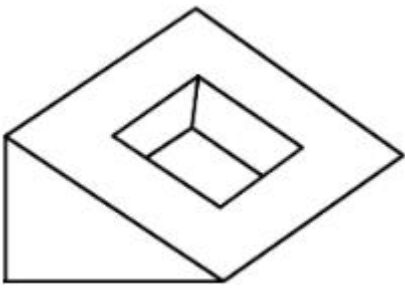
**Correct Marks : 4 Wrong Marks : 1**

ಪ್ರಶ್ನೆ ಚಿತ್ರವು ವಸ್ತುವಿನ ಮೇಲಿನ ನೋಟವನ್ನು ತೋರಿಸುವುದು. ಕೊಟ್ಟಿರುವ ಉತ್ತರ ಚಿತ್ರಗಳಲ್ಲಿ ತಪ್ಪಾಗಿರುವ 3D ನೋಟವನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.

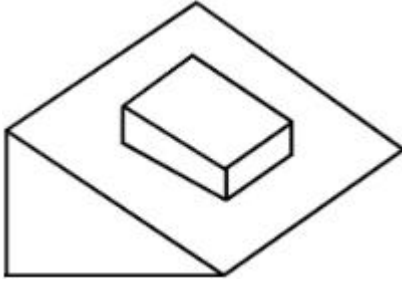


**Options :**

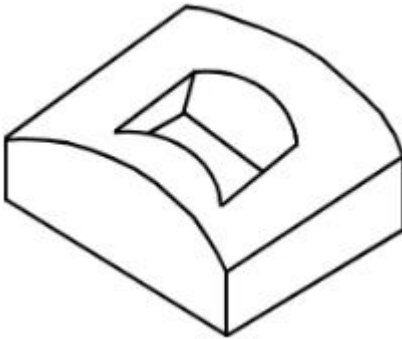
7155058311.



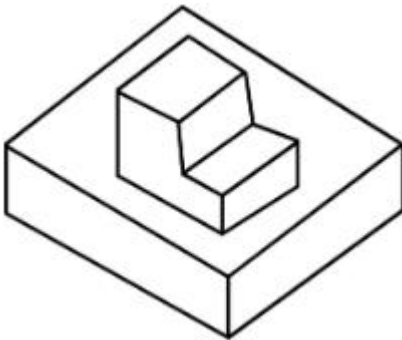
7155058312.



7155058313.

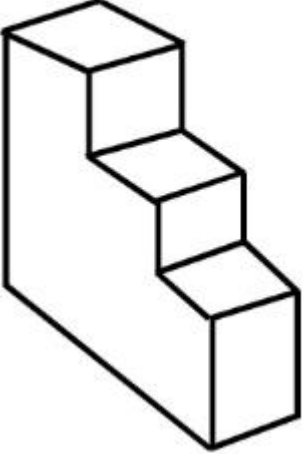


7155058314.



**Question Number : 67 Question Id : 7155052635 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0  
Correct Marks : 4 Wrong Marks : 1**

How many surfaces does the object have?



**Options :**

7155058315. 9

7155058316. 10

7155058317. 8

7155058318. 11

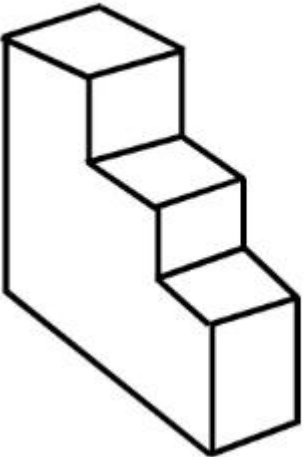
**Question Number : 67 Question Id : 7155052635 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ವಸ್ತುವು ಎಷ್ಟು ಮೇಲ್ಮೈಗಳನ್ನು ಹೊಂದಿರುವುದು?



**Options :**

7155058315. 9

7155058316. 10

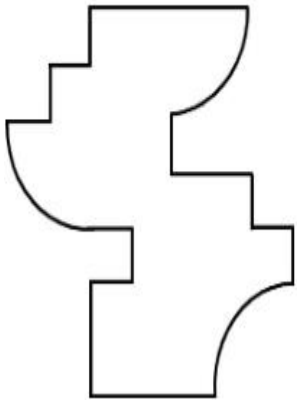
7155058317. 8

7155058318. 11

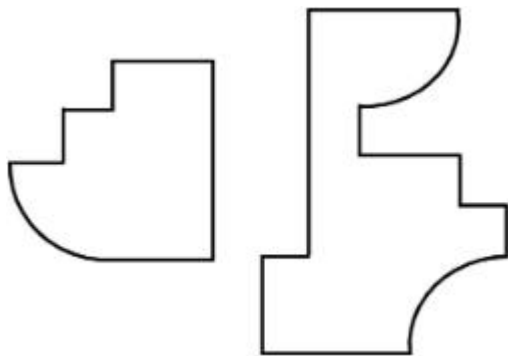
**Question Number : 68 Question Id : 7155052636 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

If the question figure is cut into two parts, which of the answer figures complete the question figure without any overlappings?



**Options :**

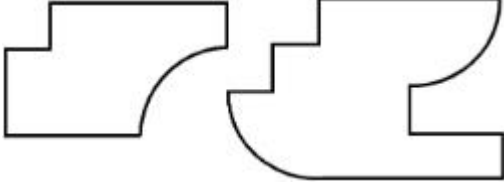


7155058319.

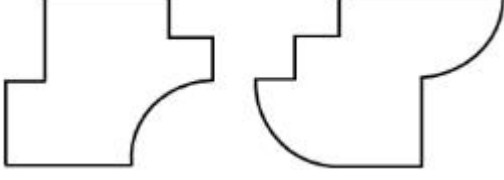


7155058320.

7155058321.



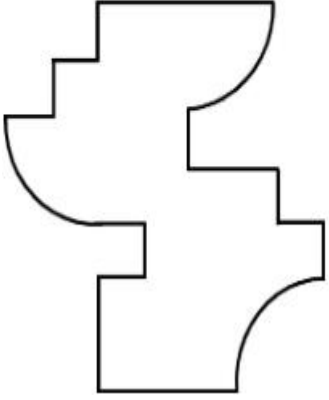
7155058322.



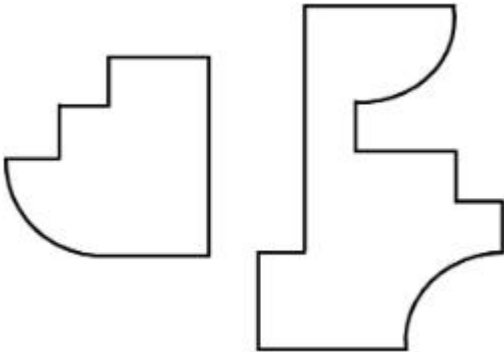
**Question Number : 68 Question Id : 7155052636 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಪ್ರಶ್ನೆ ಚಿತ್ರವನ್ನು ಎರಡು ಭಾಗಗಳಾಗಿ ಛೇದಿಸಿದಾಗ, ಉತ್ತರ ಚಿತ್ರಗಳಲ್ಲಿ ಯಾವುದು ಪ್ರಶ್ನೆ ಚಿತ್ರವನ್ನು ಅತಿವ್ಯಾಪನಗೊಳ್ಳದೇ ಪೂರ್ಣಗೊಳಿಸುವುದು?



**Options :**



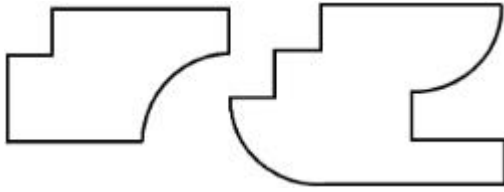
7155058319.

7155058320.

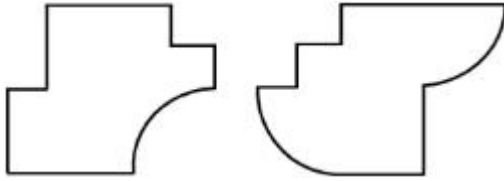




7155058321.



7155058322.



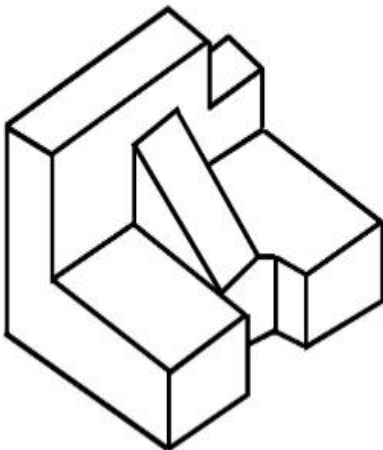
**Question Number : 69 Question Id : 7155052637 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

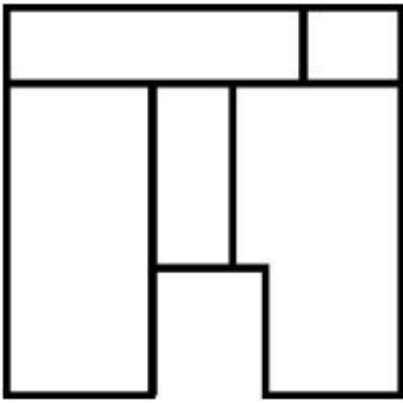
**Correct Marks : 4 Wrong Marks : 1**

The 3D problem figure shows the view of an object. Identify its appropriate top view from the answer figures.

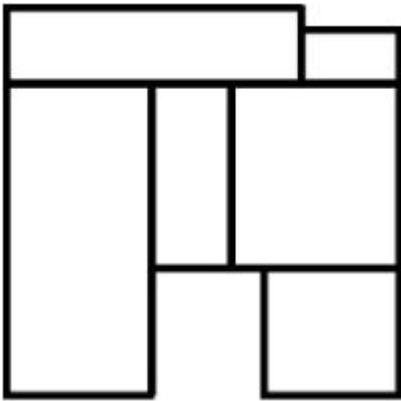


**Options :**

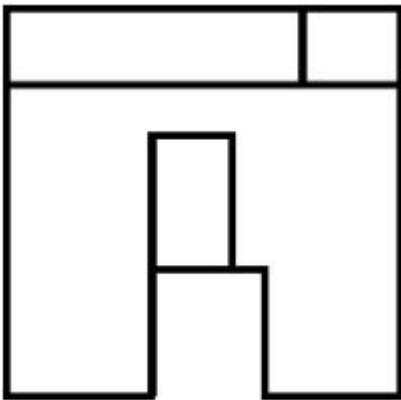
7155058323.



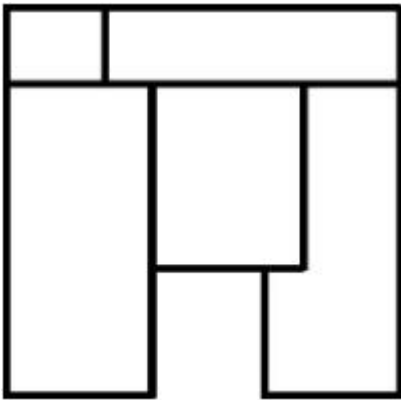
7155058324.



7155058325.



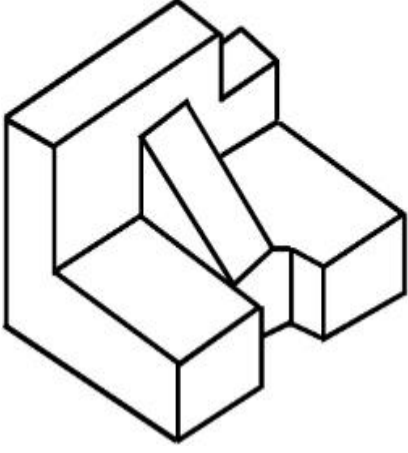
7155058326.



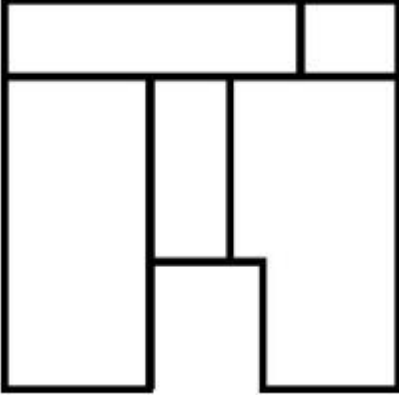
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

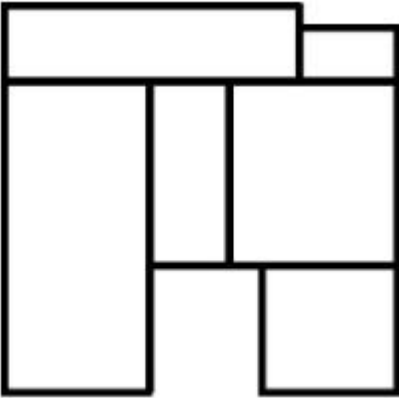
ಪ್ರಶ್ನೆ ಚಿತ್ರವು ವಸ್ತುವಿನ 3D ನೋಟವನ್ನು ತೋರಿಸುವುದು. ಉತ್ತರ ಚಿತ್ರಗಳಲ್ಲಿ ಮೇಲಿನ ನೋಟವುಳ್ಳ ಸೂಕ್ತ ಉತ್ತರ ಚಿತ್ರವನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.



**Options :**

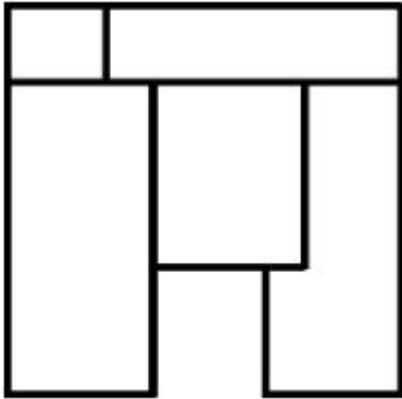
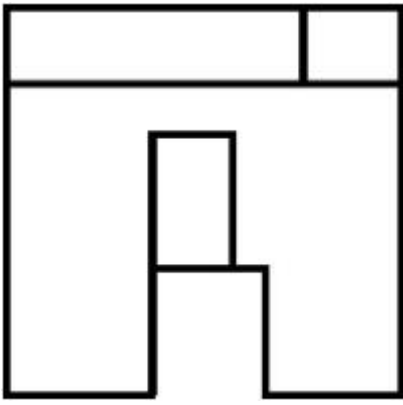


7155058323.



7155058324.

7155058325.



7155058326.

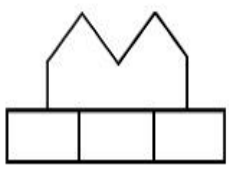
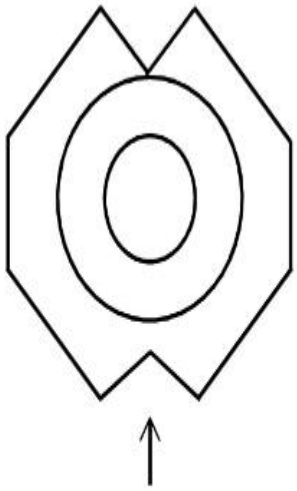
**Question Number : 70 Question Id : 7155052638 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

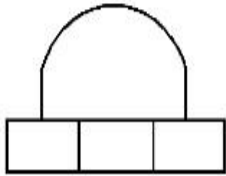
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

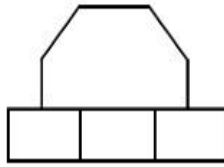
Identify the correct elevation when you look into the object from the marked arrow side of the plan of the object.



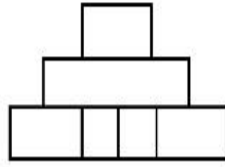
A



B



C



D

**Options :**

7155058327. D

7155058328. A

7155058329. B

7155058330. C

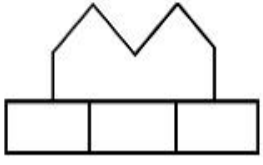
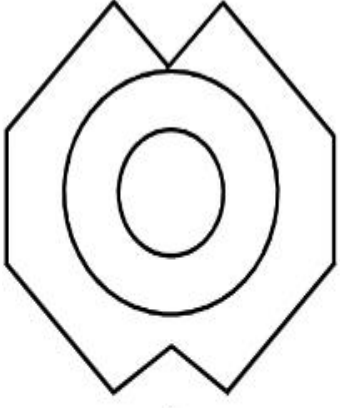
**Question Number : 70 Question Id : 7155052638 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

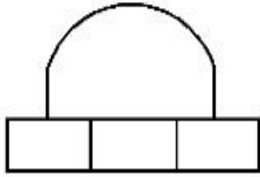
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

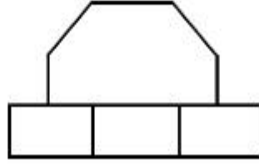
ವಸ್ತುವಿನ ಯೋಜನೆಯ (ಪ್ಲಾನ್) ಗುರುತು ಮಾಡಿದ ಬಾಣದ ದಿಕ್ಕಿನಿಂದ ವಸ್ತುವನ್ನು ನೋಡಿದಾಗ, ಸರಿಯಾಗಿರುವ ಎಲಿವೇಶನ್ (ಮುಮ್ಮುಖವನ್ನು) ಕಂಡು ಹಿಡಿಯಿರಿ.



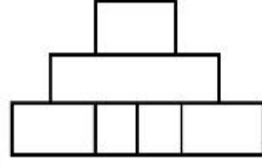
A



B



C



D

**Options :**

7155058327. D

7155058328. A

7155058329. B

7155058330. C

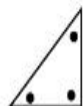
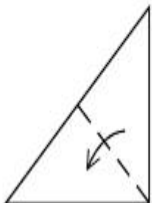
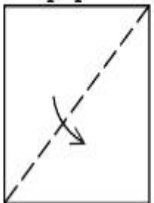
**Question Number : 71 Question Id : 7155052639 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

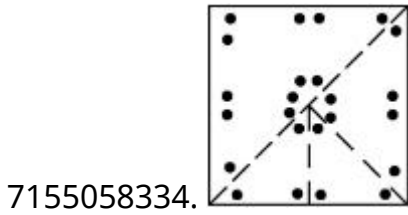
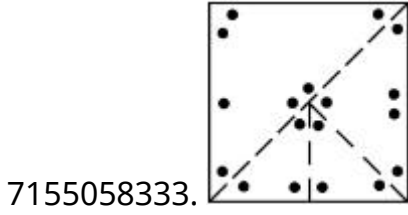
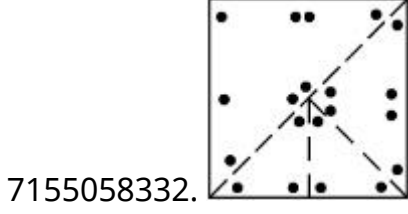
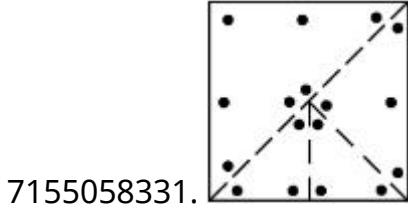
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

A paper is folded in a given pattern and it is cut at the end. Identify which pattern is formed when the paper is unfold.



Options :



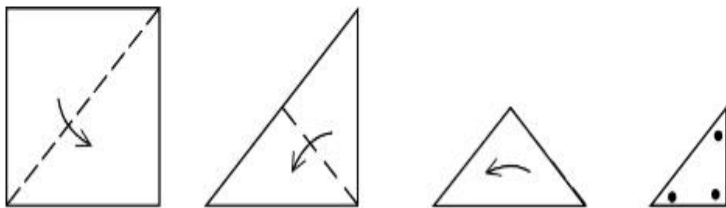
Question Number : 71 Question Id : 7155052639 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

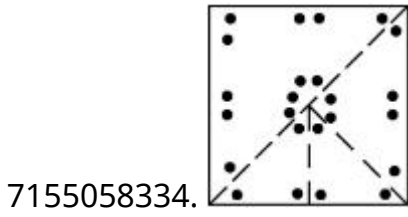
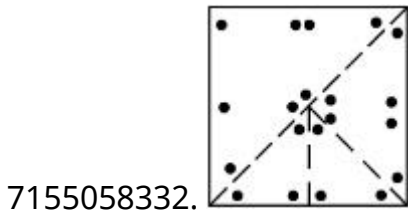
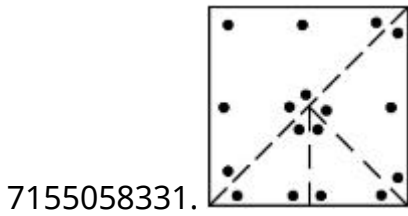
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ಕೊಟ್ಟಿರುವ ಮಾದರಿಯಂತೆ ಒಂದು ಹಾಳೆಯನ್ನು ಮಡಿಚಲಾಗಿದೆ ಮತ್ತು ಕೊನೆಗೆ ಇದನ್ನು ಕತ್ತರಿಸಲಾಗಿದೆ. ಪುನಃ ಹಾಳೆಯ ಮಡಿಕೆಯನ್ನು ಬಿಡಿಸಿದಾಗ ಉಂಟಾಗುವ ಮಾದರಿಯನ್ನು ಕಂಡು ಹಿಡಿಯಿರಿ.



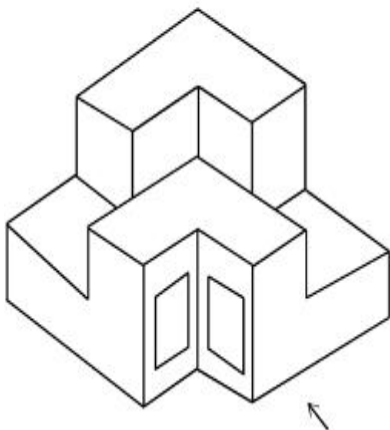
Options :



**Question Number : 72 Question Id : 7155052640 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

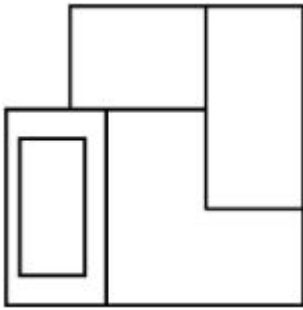
The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.



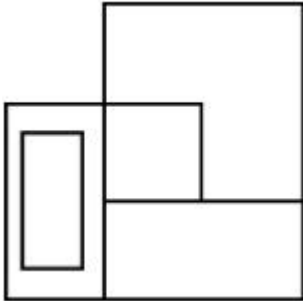
**Options :**



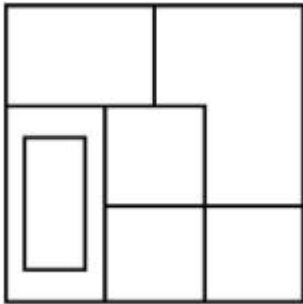
7155058335.



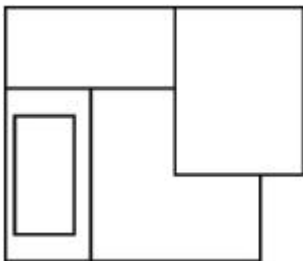
7155058336.



7155058337.



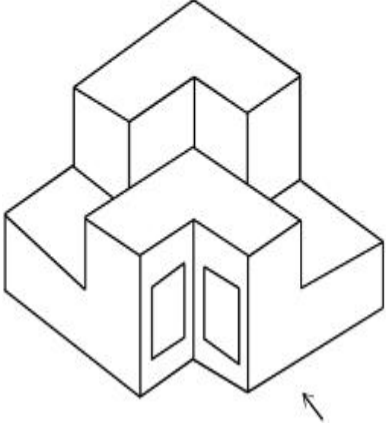
7155058338.



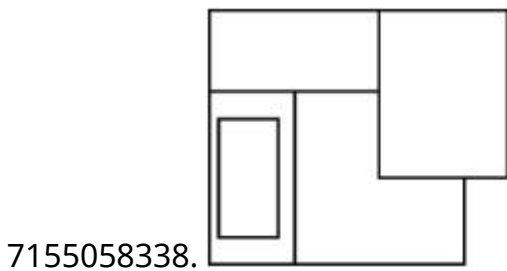
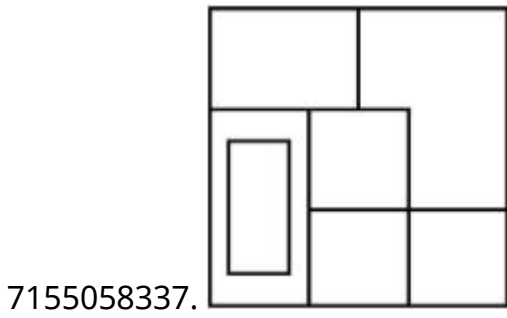
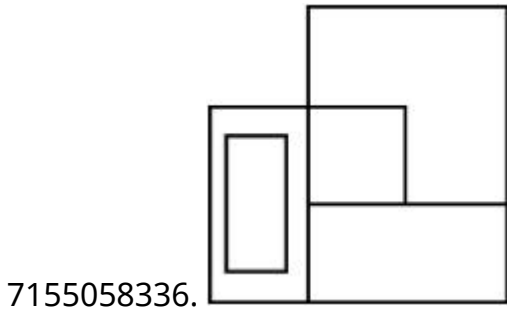
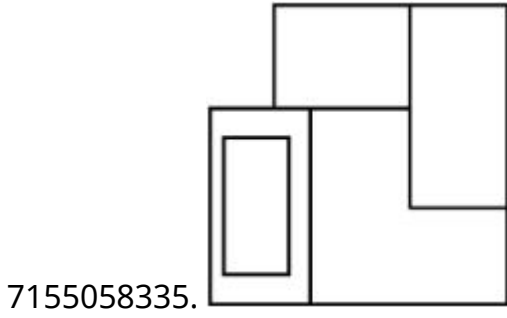
**Question Number : 72 Question Id : 7155052640 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಪ್ರಶ್ನೆ ಚಿತ್ರವು ವಸ್ತುವಿನ 3-D ನೋಟವನ್ನು ತೋರಿಸುವುದು. ಬಾಣದ ದಿಕ್ಕಿನಲ್ಲಿ ವೀಕ್ಷಿಸಿದಾಗ, ಸರಿಯಾಗಿರುವ ನೋಟವನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.



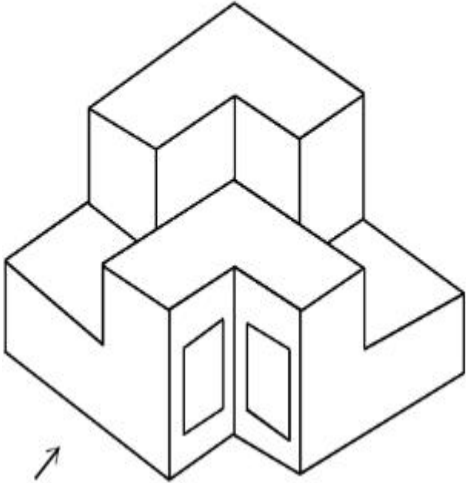
**Options :**



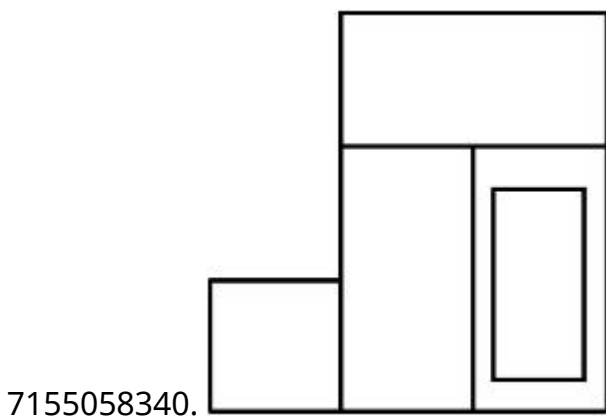
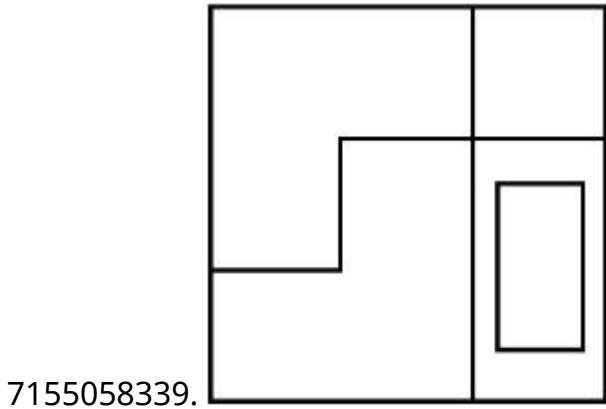
Question Number : 73 Question Id : 7155052641 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

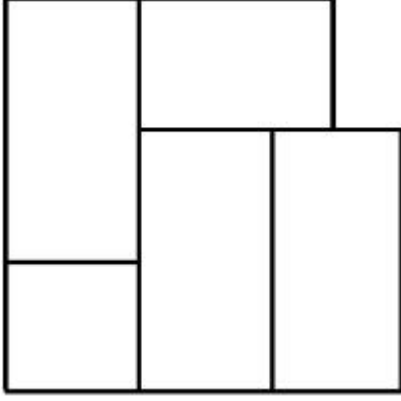
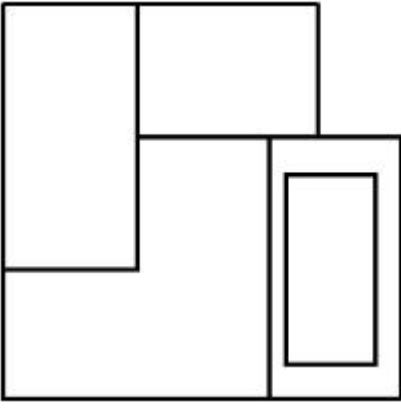
The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.



Options :



7155058341.

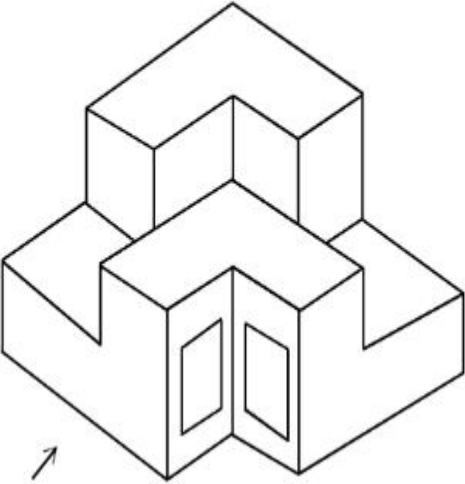


7155058342.

**Question Number : 73 Question Id : 7155052641 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

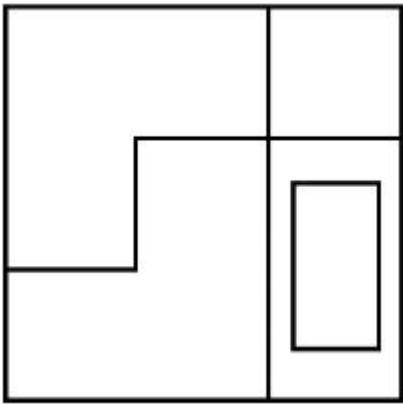
**Correct Marks : 4 Wrong Marks : 1**

ಪ್ರಶ್ನೆ ಚಿತ್ರವು ವಸ್ತುವಿನ 3-D ನೋಟವನ್ನು ತೋರುವುದು. ಬಾಣದ ದಿಕ್ಕಿನಿಂದ ವೀಕ್ಷಿಸಿದಾಗ ಸರಿಯಾಗಿರುವ ನೋಟವನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.

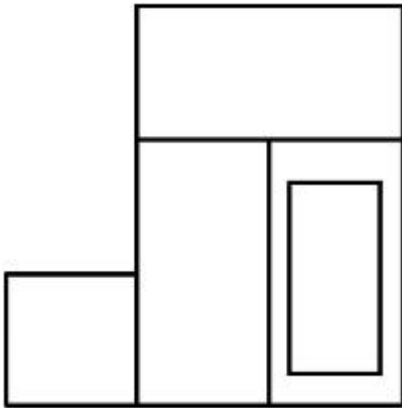


**Options :**

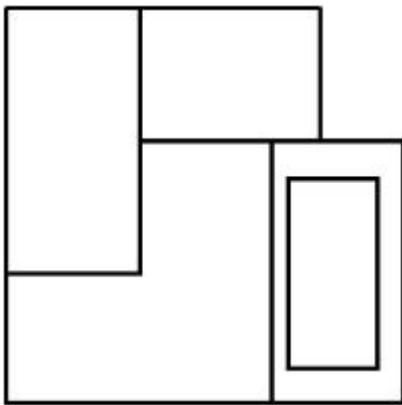
7155058339.



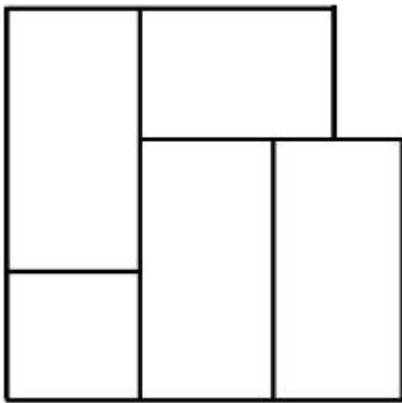
7155058340.



7155058341.



7155058342.

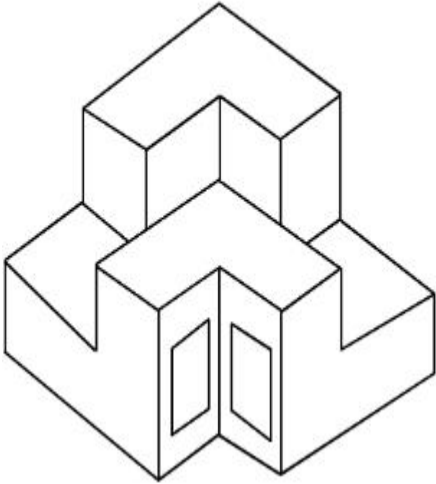


**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

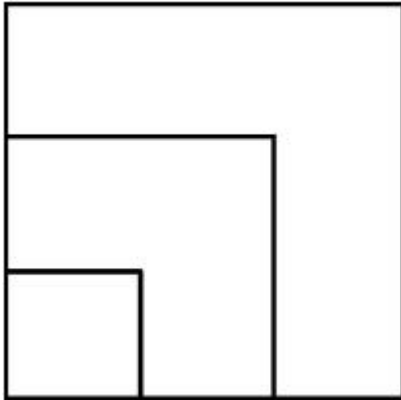
**Correct Marks : 4 Wrong Marks : 1**

From the given options below, choose the correct plan of the 3-D object, when viewed from the top.

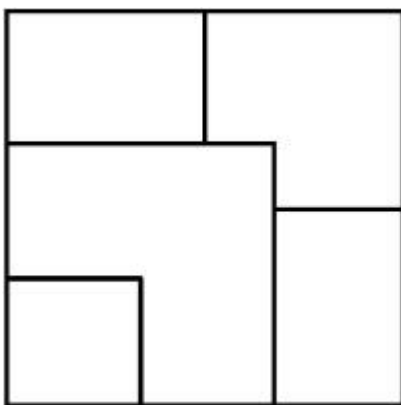


**Options :**

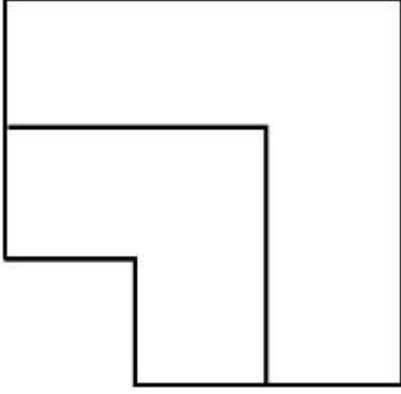
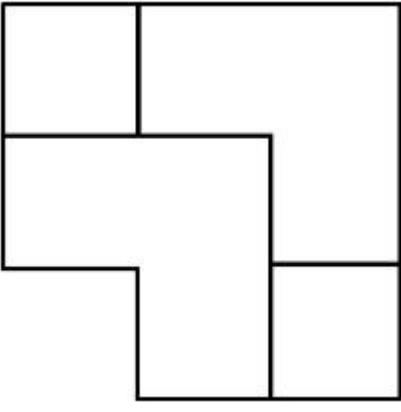
7155058343.



7155058344.



7155058345.

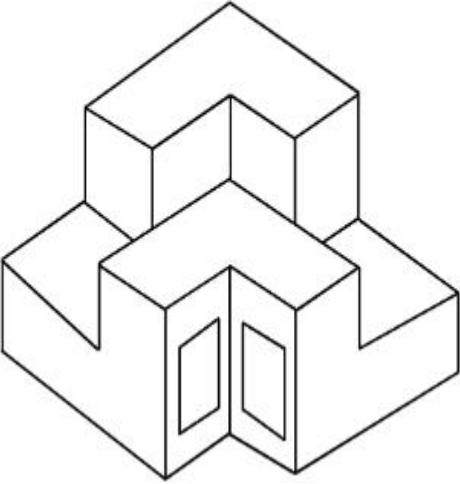


7155058346.

**Question Number : 74 Question Id : 7155052642 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

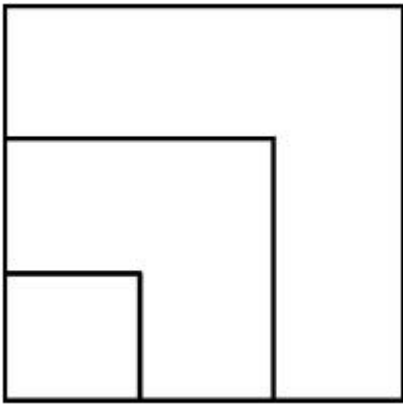
**Correct Marks : 4 Wrong Marks : 1**

ವಸ್ತುವನ್ನು ಮೇಲಿನಿಂದ ವೀಕ್ಷಿಸಿದಾಗ, ಕೆಳಗಿನ ಆಯ್ಕೆಗಳಲ್ಲಿ ವಸ್ತುವಿನ ಸರಿಯಾಗಿರುವ 3-D ಪ್ಲಾನ್ (ಯೋಜನೆ) ಆರಿಸಿ.

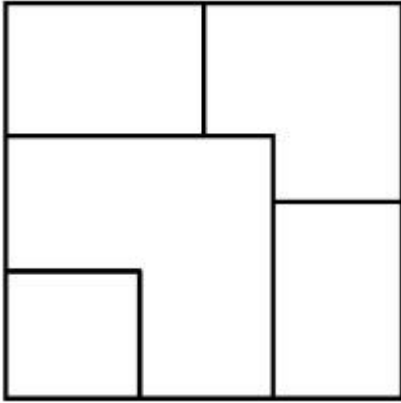


**Options :**

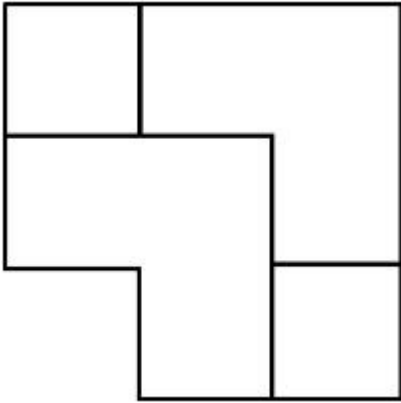
7155058343.



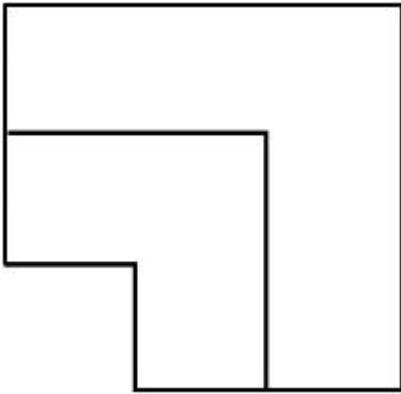
7155058344.



7155058345.



7155058346.

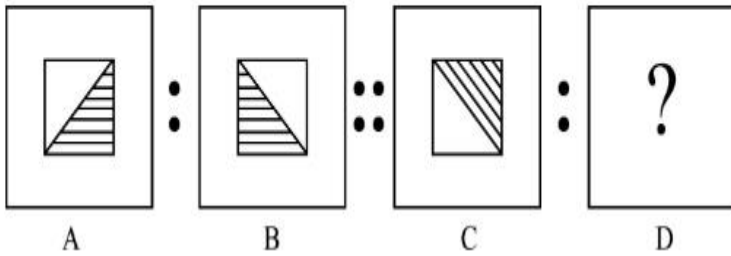




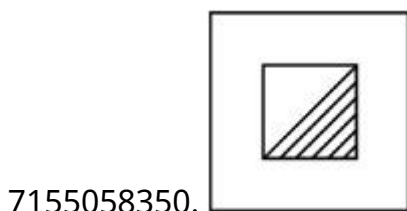
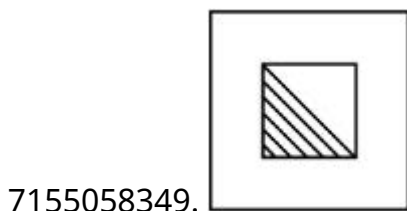
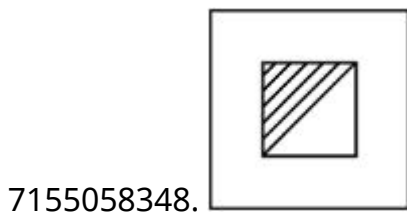
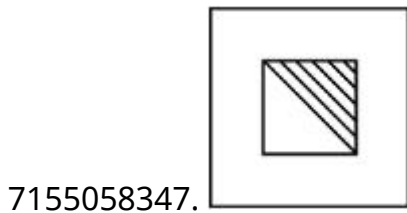
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

The second figure in the first part of the problem figures bears certain relationship to the first figure. Similarly, one of the figures of answer figures bears the same relationship to the first figure of the second part. Identify the correct option from the given answer figures.



**Options :**



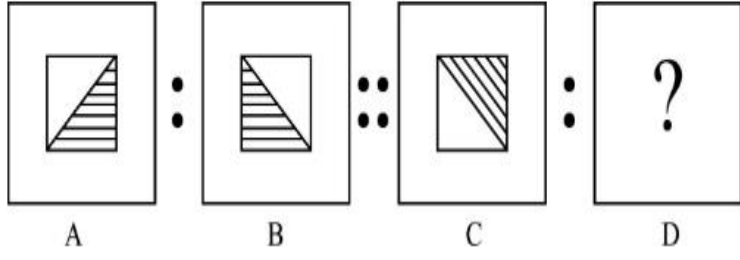
**Question Number : 75 Question Id : 7155052643 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

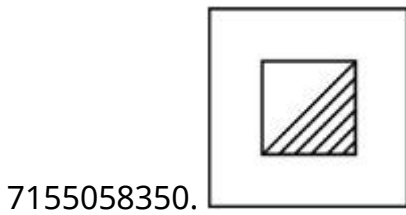
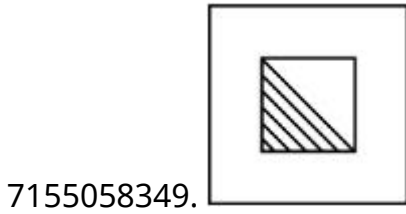
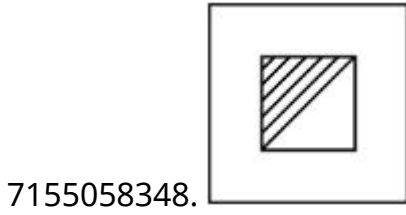
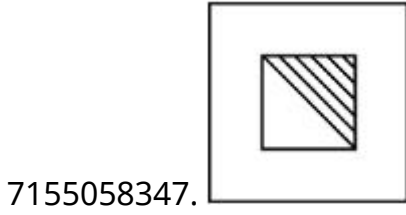
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಎರಡನೇ ಚಿತ್ರವು ಪ್ರಥಮ ಭಾಗದ ಪ್ರಶ್ನೆ ಚಿತ್ರಗಳಲ್ಲಿ ಒಂದನೇ ಚಿತ್ರದೊಂದಿಗೆ ನಿಶ್ಚಿತ ಸಂಬಂಧ ಹೊಂದಿರುವುದು. ಹಾಗೆಯೇ ದ್ವಿತೀಯ ಭಾಗದ ಪ್ರಶ್ನೆ ಚಿತ್ರಗಳಲ್ಲಿ ಒಂದನೇ ಪ್ರಶ್ನೆ ಚಿತ್ರವು ಉತ್ತರ ಚಿತ್ರಗಳ ಒಂದು ಚಿತ್ರದೊಂದಿಗೆ ಅದೇ ರೀತಿಯ ಸಂಬಂಧ ಹೊಂದಿರುವುದು. ಕೊಟ್ಟಿರುವ ಉತ್ತರ ಚಿತ್ರಗಳಿಂದ ಸರಿಯಾಗಿರುವ ಆಯ್ಕೆಯನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.



Options :



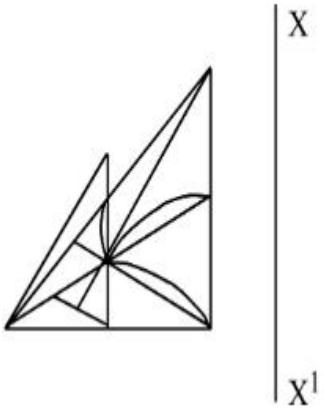
Question Number : 76 Question Id : 7155052644 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

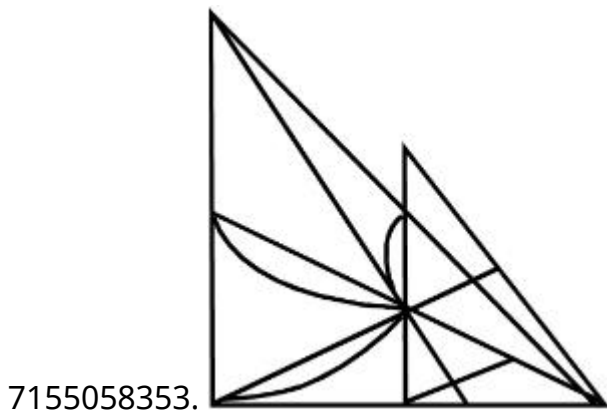
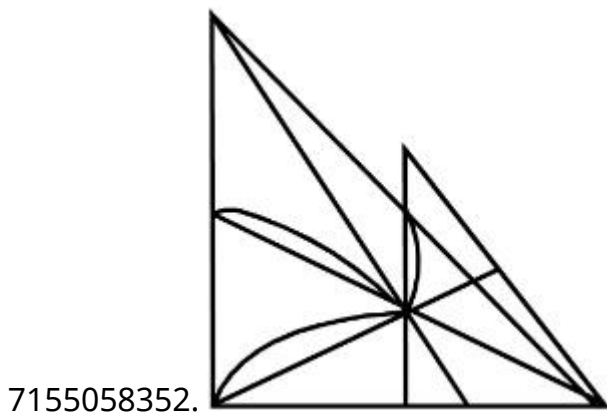
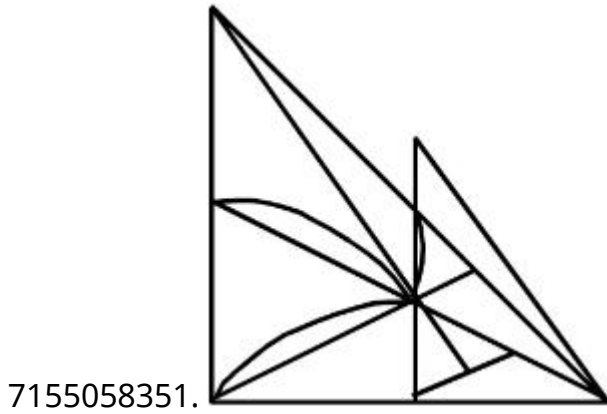
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

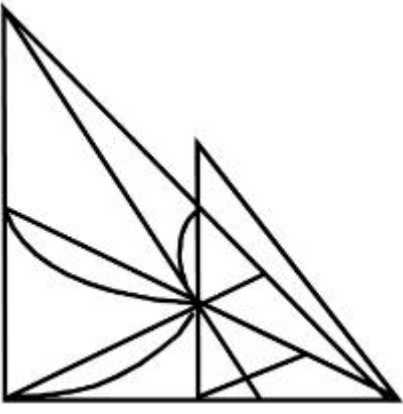
Identify the true mirror image of the figure amongst the answer figures with respect to X-X



Options :



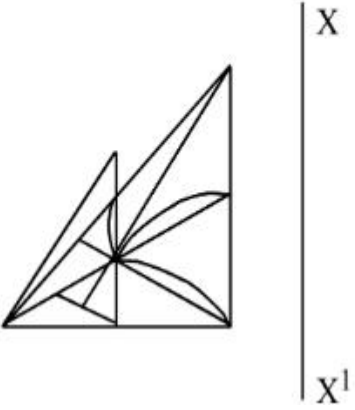
7155058354.



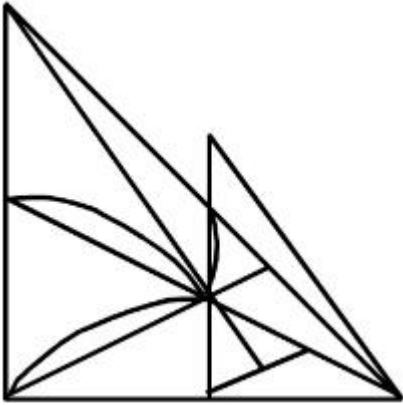
Question Number : 76 Question Id : 7155052644 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

X-X ಗೆ ಅನುಗುಣವಾಗಿ ಕೊಟ್ಟಿರುವ ಚಿತ್ರದ ನಿಜವಾಗಿರುವ ದರ್ಪಣ ಬಿಂಬವನ್ನು  
ಕಂಡುಹಿಡಿಯಿರಿ.

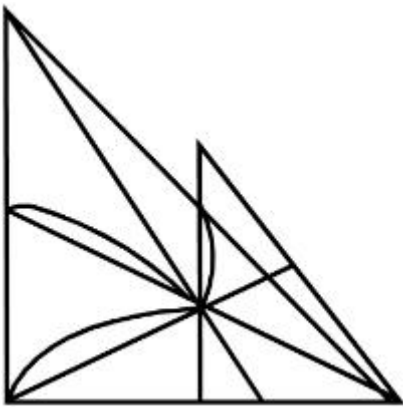


Options :

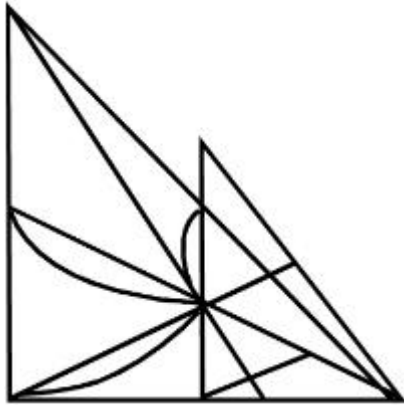


7155058351.

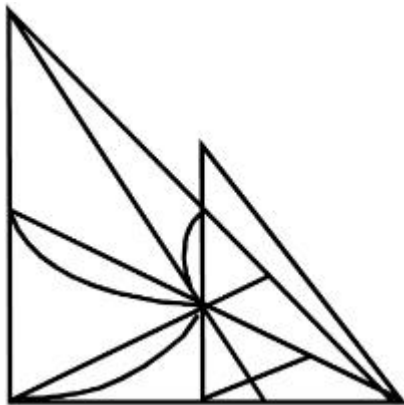
7155058352.



7155058353.



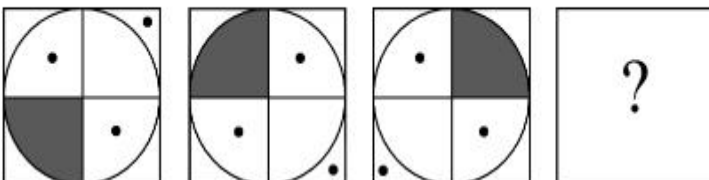
7155058354.



**Question Number : 77 Question Id : 7155052645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

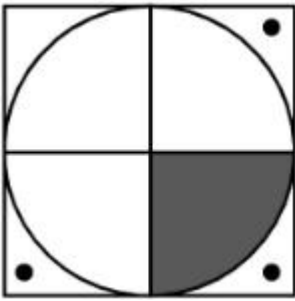
**Correct Marks : 4 Wrong Marks : 1**

Choose the correct option amongst the answer figures which complete the series.

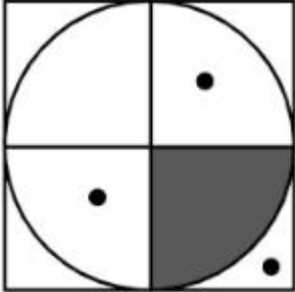


**Options :**

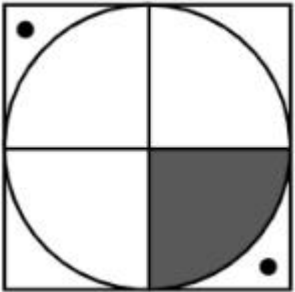
7155058355.



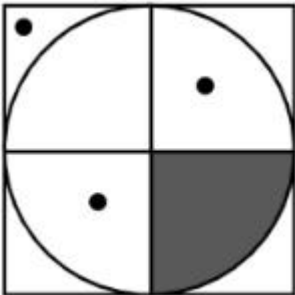
7155058356.



7155058357.



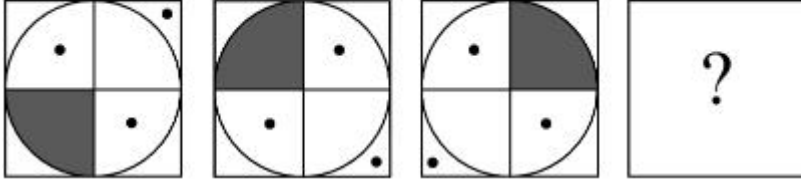
7155058358.



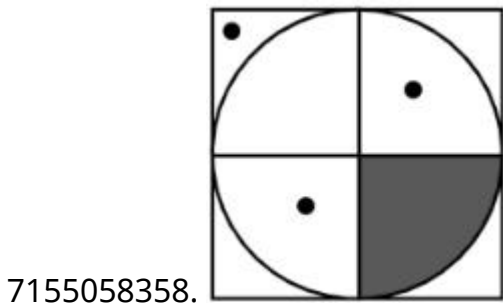
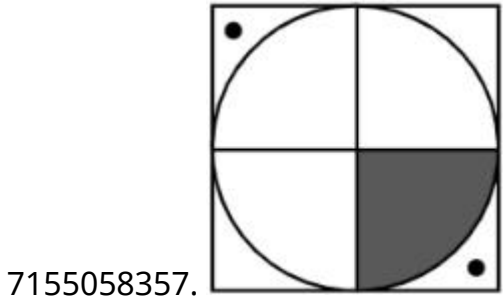
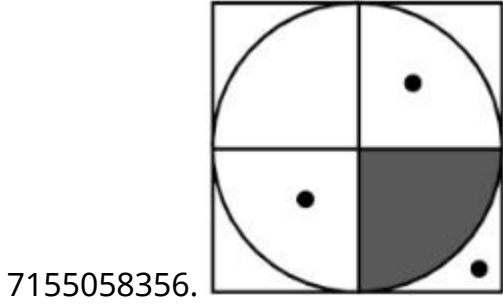
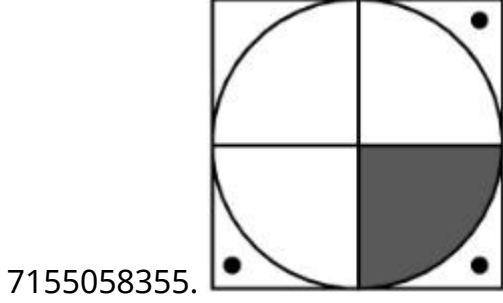
**Question Number : 77 Question Id : 7155052645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

ಸರಣಿಯನ್ನು ಪೂರ್ಣಗೊಳಿಸಲು ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾಗಿರುವ ಉತ್ತರವನ್ನು ಆರಿಸಿ.



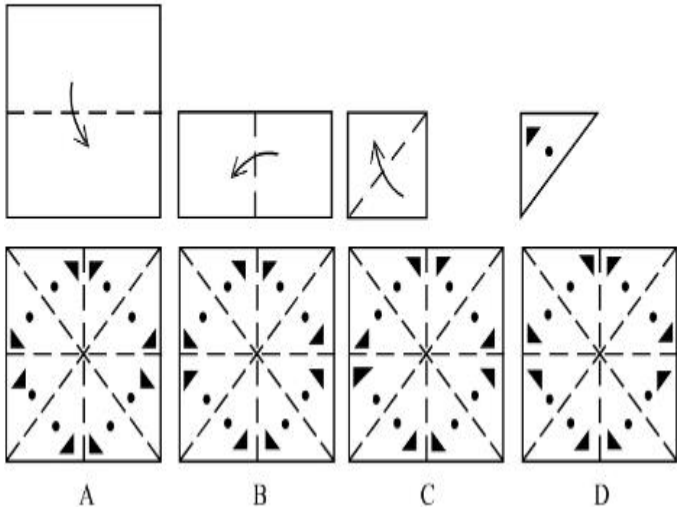
Options :



Question Number : 78 Question Id : 7155052646 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

**Correct Marks : 4 Wrong Marks : 1**

Sheet is folded in marked format and cut led at last as shown. Identify from the options below, how the pattern will be made when it's fully unfold?



**Options :**

7155058359. B

7155058360. A

7155058361. D

7155058362. C

**Question Number : 78 Question Id : 7155052646 Question Type : MCQ Option Shuffling : Yes Is**

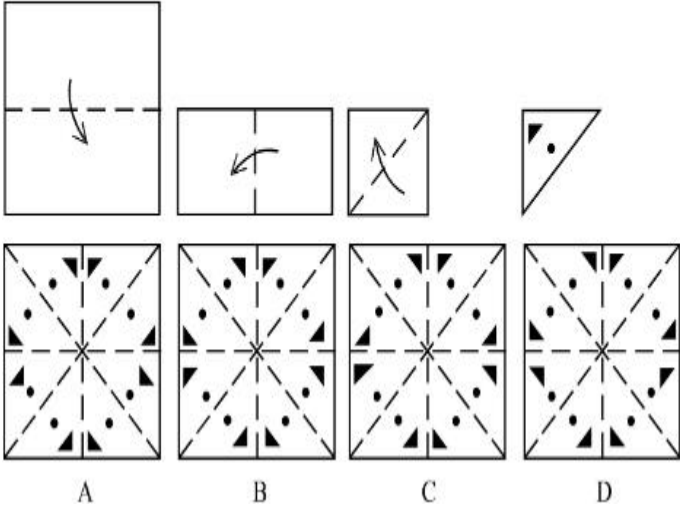
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**



ಹಾಳೆಯನ್ನು ಗುರುತು ಮಾಡಿದ ನಮೂನೆಯಲ್ಲಿ ಮಡಚಲಾಗಿದೆ ಮತ್ತು ಕೊನೆಯಲ್ಲಿ ತೋರಿಸಿದ ಹಾಗೆ ಹಾಳೆಯಲ್ಲಿ ರಂಧ್ರ ಕೊರೆಯಲಾಗಿದೆ. ಪುನಃ ಹಾಳೆಯ ಮಡಿಕೆಯನ್ನು ಬಿಡಿಸಿದಾಗ ತಯಾರಾದ ಮಾದರಿಯನ್ನು ಕೆಳಗಿನ ಆಯ್ಕೆಗಳಿಂದ ಕಂಡುಹಿಡಿಯಿರಿ.



**Options :**

7155058359. B

7155058360. A

7155058361. D

7155058362. C

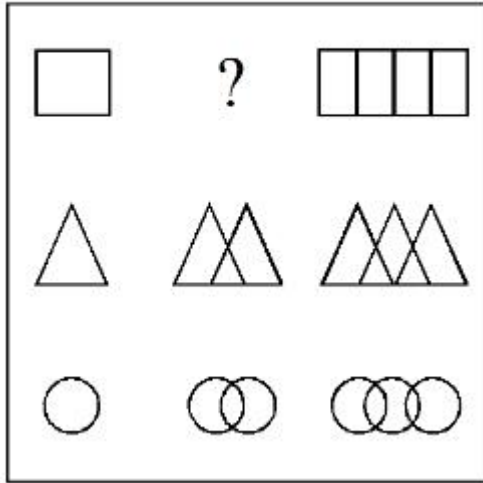
**Question Number : 79 Question Id : 7155052647 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

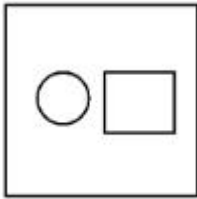
**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**

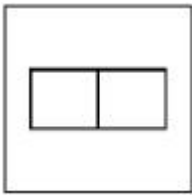
In the figure mentioned below find the missing series:-



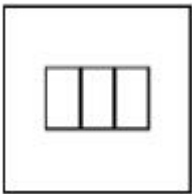
Options :



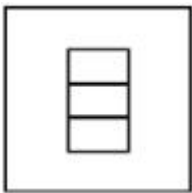
7155058363.



7155058364.



7155058365.

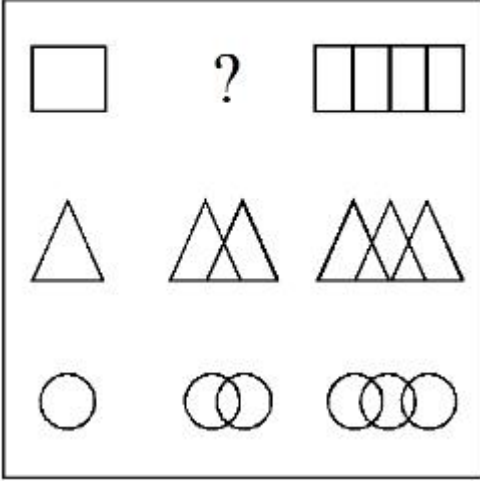


7155058366.

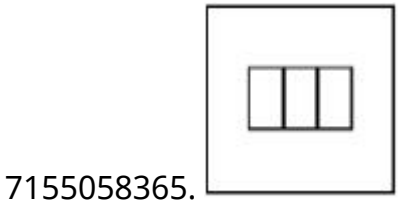
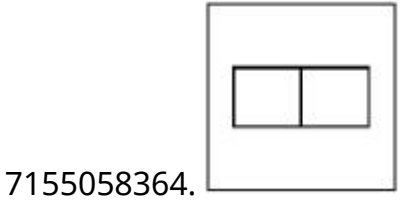
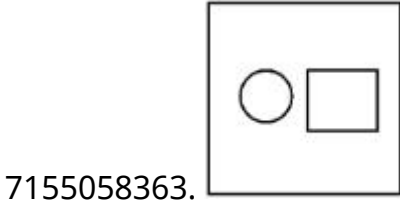
Question Number : 79 Question Id : 7155052647 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ಕೊಟ್ಟಿರುವ ಚಿತ್ರಗಳ ಸರಣಿಯಲ್ಲಿ ಕಾಣೆಯಾಗಿರುವುದನ್ನು ಕಂಡುಹಿಡಿಯಿರಿ.

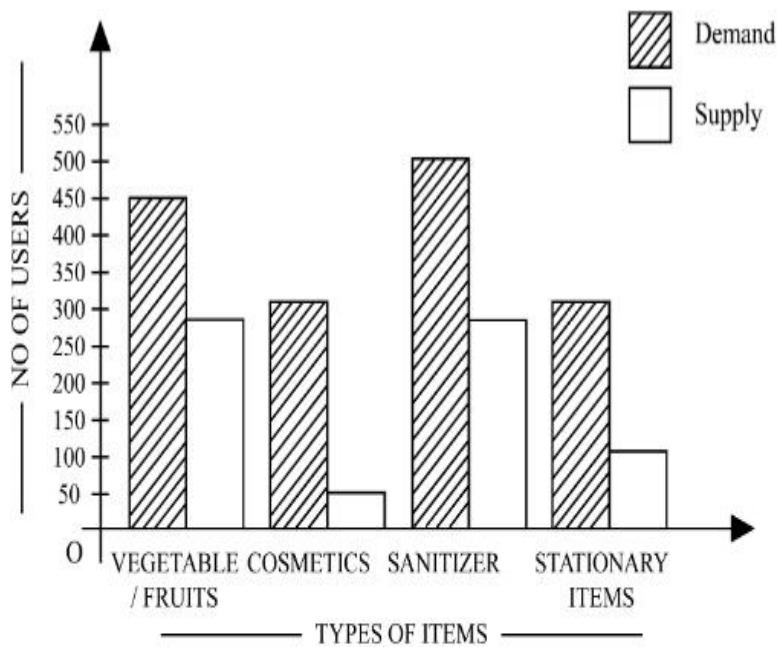


Options :



Question Number : 80 Question Id : 7155052648 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



The diagram shows the supply and demand of different users for different items. Which of the following is/are correct?

- A. Sanitizer only meet 50% of the demand
- B. Cosmetics has the least supply among all.
- C. Among all, two items have equal demand but difference in supply
- D. Among all, two items have equal supply and two items have equal demand.

Choose the correct answer from the options given below:-

**Options :**

7155058367. B and D only

7155058368. A and B only

7155058369. A and C only

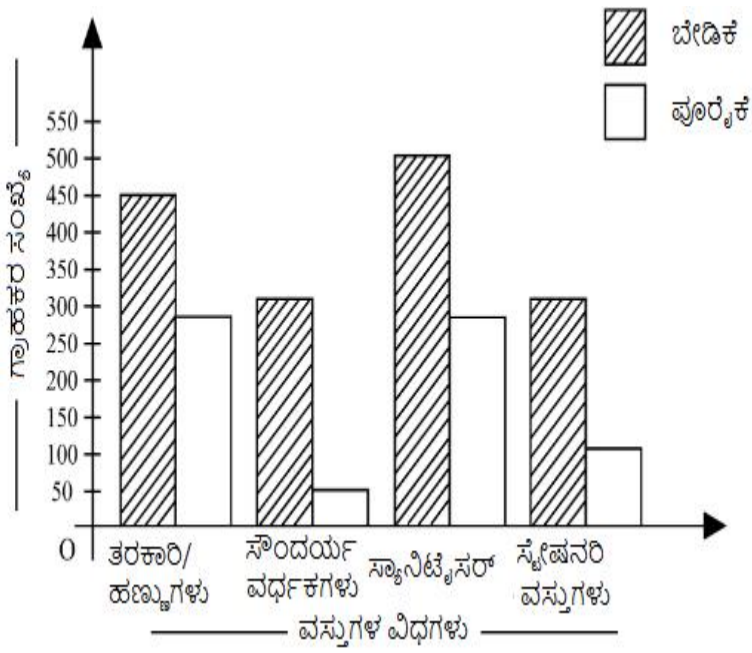
7155058370. B, C and D only

**Question Number : 80 Question Id : 7155052648 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 4 Wrong Marks : 1**



ಮೇಲಿನ ಚಿತ್ರವು ಭಿನ್ನ ಗ್ರಾಹಕರಿಗಾಗಿ ವಿವಿಧ ವಸ್ತುಗಳ ಬೇಡಿಕೆ ಮತ್ತು ಪೂರೈಕೆ ತೋರಿಸುವುದು. ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಸರಿಯಾಗಿರುವುದು/ಗಳು?

- ಸ್ಯಾನಿಟೈಸರ್ ಶೇಕಡಾ 50% ರಷ್ಟು ಬೇಡಿಕೆಯನ್ನು ಮಾತ್ರ ಈಡೇರಿಸುವುದು.
- ಸೌಂದರ್ಯ ವರ್ಧಕಗಳು ಎಲ್ಲವುಗಳಿಗಿಂತ ಕನಿಷ್ಠ ಪೂರೈಕೆ ಹೊಂದಿದೆ.
- ಎಲ್ಲವುಗಳಲ್ಲಿ, ಎರಡು ವಸ್ತುಗಳು ಸಮ ಬೇಡಿಕೆ ಹೊಂದಿವೆ, ಆದರೆ ಪೂರೈಕೆಯಲ್ಲಿ ವ್ಯತ್ಯಾಸವಿದೆ.
- ಎಲ್ಲ ವಸ್ತುಗಳಲ್ಲಿ, ಎರಡು ವಸ್ತುಗಳು ಸಮನಾದ ಪೂರೈಕೆ ಮತ್ತು ಎರಡು ವಸ್ತುಗಳು ಸಮನಾದ ಬೇಡಿಕೆ ಹೊಂದಿವೆ.

ಕೆಳಗೆ ನೀಡಿರುವ ಆಯ್ಕೆಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆಯ್ಕೆ ಮಾಡಿ:-

**Options :**

7155058367. B ಮತ್ತು D ಮಾತ್ರ

7155058368. A ಮತ್ತು B ಮಾತ್ರ

7155058369. A ಮತ್ತು C ಮಾತ್ರ

7155058370. B, C ಮತ್ತು D ಮಾತ್ರ

**Drawing**

<b>Section Id :</b>	715505162
<b>Section Number :</b>	4
<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	2
<b>Number of Questions to be attempted :</b>	2
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	715505162
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 81 Question Id : 7155052649 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 50**

Draw a proportionate sketch of given reference image. Use black and white rendering techniques of your choice.



**Question Number : 81 Question Id : 7155052649 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 50**

ನೀಡಲಾದ ಚಿತ್ರವನ್ನು ಆಧರಿಸಿ ಅದನ್ನೇ ಹೋಲುವ ಚಿತ್ರವನ್ನು ರಚಿಸಿರಿ. ಇದಕ್ಕಾಗಿ ನಿಮ್ಮ ಆಯ್ಕೆಯ ಕಪ್ಪು ಮತ್ತು ಬಿಳುಪಲ್ಲಿ ಬಿಡಿಸುವ ತಂತ್ರವನ್ನು ಬಳಸಿ.



**Question Number : 82 Question Id : 7155052650 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 50**

Use the basic 2D shapes found in a motor cycle and create an interesting 2D composition of your choice, colour with any three colours of your choice.

**Question Number : 82 Question Id : 7155052650 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 50**

ಮೋಟಾರ್ ಸೈಕಲ್‌ನಲ್ಲಿ ಕಾಣಿಸಿಗುವ ಮೂಲ 2D ಆಕೃತಿಯನ್ನು ಬಳಸಿಕೊಂಡು ನಿಮ್ಮ ಆಯ್ಕೆಯ ಆಸಕ್ತಿದಾಯಕವಾದ 2D ಸಂಯೋಜನೆಯನ್ನು ರಚಿಸಿ, ನಿಮ್ಮ ಆಯ್ಕೆಯ ಯಾವುದೇ ಮೂರು ಬಣ್ಣಗಳಿಂದ ಬಣ್ಣ ಹಚ್ಚಿರಿ.