

# National Testing Agency

<b>Question Paper Name :</b>	B PLANNING AND B ARCH 28th Jan 2023 Shift 2
<b>Subject Name :</b>	B PLANNING AND B ARCH
<b>Creation Date :</b>	2023-01-28 23:48:20
<b>Duration :</b>	210
<b>Total Marks :</b>	500
<b>Display Marks:</b>	Yes

## **B PLANNING AND B ARCH**

<b>Group Number :</b>	1
<b>Group Id :</b>	71550530
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	210
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	500
<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>	715505163
<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>	715505163
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 7155052651 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 :**

7155058371.  $R_1$  is transitive but  $R_2$  is not transitive

7155058372.  $R_2$  is transitive but  $R_1$  is not transitive

7155058373. Both  $R_1$  and  $R_2$  are transitive

7155058374. Neither  $R_1$  nor  $R_2$  is transitive

Question Number : 1 Question Id : 7155052651 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

माना  $\mathbb{R}^2$  पर दो संबंध  $R_1, R_2$

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

(a, b)  $R_2$  (c, d) यदि  $a + d \geq b + c$  है

द्वारा परिभाषित हैं। तो

Options :

7155058371.  $R_1$  संक्रामक है परन्तु  $R_2$  संक्रामक नहीं है

7155058372.  $R_2$  संक्रामक है परन्तु  $R_1$  संक्रामक नहीं है

7155058373.  $R_1$  तथा  $R_2$  दोनों संक्रामक है

7155058374. न तो  $R_1$  न ही  $R_2$  संक्रामक है

Question Number : 2 Question Id : 7155052652 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 :

7155058375. 1

7155058376.  $\frac{1}{9}$

7155058377. 3

7155058378. 9

**Question Number : 2 Question Id : 7155052652 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**

माना  $\alpha$  तथा  $\beta$  समीकरण  $x^2 - 3x + 9 = 0$  के मूल हैं। तो  $\left( \frac{\beta^{30}}{(9\alpha)^{10}} + \frac{\alpha^{30}}{(9\beta)^{10}} \right)^2$  बराबर है :

**Options :**

7155058375. 1

7155058376.  $\frac{1}{9}$

7155058377. 3

7155058378. 9

**Question Number : 3 Question Id : 7155052653 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 :**

7155058379. 1153

7155058380. 947

7155058381. 537

7155058382. 837

**Question Number : 3 Question Id : 7155052653 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**

यदि  $z = 2 + 5i$  हैं, तो  $2z^3 + 21z^2 - 58z + 4$  का मापांक है ।

**Options :**

7155058379. 1153

7155058380. 947

7155058381. 537

7155058382. 837

**Question Number : 4 Question Id : 7155052654 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 :**

7155058383. 27

7155058384.  $\frac{1}{3}$

7155058385. 9

7155058386. 3

**Question Number : 4 Question Id : 7155052654 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**

यदि समीकरण निकाय

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

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

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

के अनंत हल हैं, तो  $K^2$  बराबर है।

**Options :**

7155058383. 27

7155058384.  $\frac{1}{3}$

7155058385. 9

7155058386. 3

Question Number : 5 Question Id : 7155052655 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 :

7155058387.  $2\sqrt{3}$

7155058388.  $2\sqrt{2}$

7155058389. 4

7155058390. 2

Question Number : 5 Question Id : 7155052655 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

यदि  $\alpha, \beta \in \mathbb{R}$  के लिए, आव्यूह  $A = \begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}$ ,  $B = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$ ,  $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$  समीकरण  $(A*B)*2I = 20I$ , जहाँ

$A*B = A^2 + B^2$  है, को संतुष्ट करते हैं तो  $|\alpha\beta|$  बराबर है ।

Options :

7155058387.  $2\sqrt{3}$

7155058388.  $2\sqrt{2}$

7155058389. 4

7155058390. 2

Question Number : 6 Question Id : 7155052656 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 :

7155058391.  $\frac{61}{133}$

7155058392.  $\frac{66}{133}$

7155058393.  $\frac{16}{33}$

7155058394.  $\frac{33}{67}$

Question Number : 6 Question Id : 7155052656 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

श्रेणी  $\frac{1}{1+1^2+1^4} + \frac{2}{1+2^2+2^4} + \frac{3}{1+3^2+3^4} + \dots$  के प्रथम ग्यारह पदों का योग है :

Options :

7155058391.  $\frac{61}{133}$

7155058392.  $\frac{66}{133}$



$$7155058393. \frac{16}{33}$$

$$7155058394. \frac{33}{67}$$

**Question Number : 7 Question Id : 7155052657 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**

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

**Options :**

7155058395. e

7155058396.  $e^3$

7155058397.  $e^6$

7155058398.  $e^9$

**Question Number : 7 Question Id : 7155052657 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**

$$\lim_{x \rightarrow 0} (1 + 3x)^{\frac{x+2}{x}} \text{ बराबर है :}$$

**Options :**

7155058395. e

7155058396.  $e^3$

7155058397.  $e^6$

7155058398.  $e^9$

**Question Number : 8 Question Id : 7155052658 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 :**

7155058399. 90

7155058400. 180

7155058401. 360

7155058402. 270

**Question Number : 8 Question Id : 7155052658 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**

माना बिंदु  $Q(1, 2, 0)$  का रेखा  $\frac{x-5}{3} = \frac{y-12}{1} = \frac{z-10}{2}$  में प्रतिबिंब  $P(\alpha, \beta, \lambda)$  है। तो  $(PQ)^2$  बराबर है:

**Options :**

7155058399. 90

7155058400. 180

7155058401. 360

7155058402. 270

**Question Number : 9 Question Id : 7155052659 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 :**

7155058403. 8820

7155058404. 10584

7155058405. 1764

7155058406. 3515

**Question Number : 9 Question Id : 7155052659 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**

एक बक्से में 7 लाल तथा 9 सफेद गेंद हैं। 8 गेंद, जिनमें कम से कम तीन गेंद प्रत्येक रंग की हों, निकालने के तरीकों की संख्या है:

**Options :**

7155058403. 8820

7155058404. 10584

7155058405. 1764

7155058406. 3515

**Question Number : 10 Question Id : 7155052660 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 :**

7155058407. 19

7155058408. -19

7155058409. 18

7155058410. -21

**Question Number : 10 Question Id : 7155052660 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**

माना  $[t]$  महत्तम पूर्णांक फलन है। यदि  $\int_0^1 [1+x^2+x^4] dx = a$ , है, तो  $36a - 25a^2 + 8a^3 - a^4$  बराबर है।

**Options :**

7155058407. 19

7155058408. -19

7155058409. 18

7155058410. -21

**Question Number : 11 Question Id : 7155052661 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 :**

7155058411.  $\sqrt{2}$

7155058412. 2

7155058413.  $2\sqrt{2}$

7155058414. 4

**Question Number : 11 Question Id : 7155052661 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**

माना  $PL = 8$  इकाई तथा  $QM = 2$  इकाई के दो समांतर रेखा खंड हैं तथा रेखाखंड  $PM$  और  $QL$ , बिंदु  $R$  पर मिलते हैं। यदि  $PL$  तथा  $QM$ , बिंदुओं  $P, Q, R$  से होकर जाने वाले वृत्त की स्पर्श रेखाएँ हैं, तो वृत्त की त्रिज्या है

**Options :**

7155058411.  $\sqrt{2}$

7155058412. 2

7155058413.  $2\sqrt{2}$

7155058414. 4

**Question Number : 12 Question Id : 7155052662 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 :**

7155058415. 117

7155058416. 129

7155058417. 131

7155058418. 133

**Question Number : 12 Question Id : 7155052662 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**

किसी  $\alpha \in \mathbb{N}$ , के लिए, माना त्रिभुज PQR के दो शीर्ष P(2, 5) तथा Q( $\alpha$ , -11) हैं। यदि बिंदु R, रेखा  $l_1: 9x + 7y + \alpha = 0$  पर चलता है, तो  $\Delta PQR$  का केन्द्रक रेखा  $l_2$ , जो रेखा  $l_1$  के समांतर रेखा  $l_1$  से  $\frac{20}{3\sqrt{130}}$  की दूरी पर है, पर चलना है। यदि Q की  $l_2$  से दूरी  $\frac{k}{3\sqrt{130}}$  है, तो k बराबर है।

**Options :**

7155058415. 117

7155058416. 129

7155058417. 131

7155058418. 133

**Question Number : 13 Question Id : 7155052663 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 :**

7155058419. 12

7155058420. 30

7155058421. 24

7155058422. 48

**Question Number : 13 Question Id : 7155052663 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**

माना वृत्त  $x^2 + y^2 = 10$  पर बिंदु  $A_i(x_i, y_i)$ ,  $i = 1, 2, 3$  इस प्रकार हैं कि  $A_1$  प्रथम चतुर्थांश में है तथा यह  $y$  में सापेक्ष बिंदु  $A_2$  का प्रतिबिंब है। यदि बिंदु  $A_1$  की बिंदुओं  $A_2$  तथा  $A_3$  से 2 है, तो त्रिभुज  $\Delta A_1A_2A_3$  का क्षेत्रफल का बीस गुना है।

**Options :**

7155058419. 12

7155058420. 30

7155058421. 24

7155058422. 48

**Question Number : 14 Question Id : 7155052664 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 :**

7155058423. 5

7155058424. 7

7155058425. 9

7155058426. 11

**Question Number : 14 Question Id : 7155052664 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> को 15 से विभाजित करने पर शेषफल है

**Options :**

7155058423. 5

7155058424. 7

7155058425. 9

7155058426. 11

**Question Number : 15 Question Id : 7155052665 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 :**

7155058427. 5

7155058428. 13

7155058429. 19

7155058430. 27

**Question Number : 15 Question Id : 7155052665 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**

यदि बिंदु  $(1, -1, 3)$  से होकर जाने वाला समतल  $y = \alpha x - \beta y + \gamma$ , समतलों  $2x + y + z = 1$  तथा  $3x - 2y + 2z = 0$  में से प्रत्यक के लंबवत है, तो  $\alpha + \beta + \gamma$  बराबर है।

**Options :**

7155058427. 5

7155058428. 13

7155058429. 19

7155058430. 27

**Question Number : 16 Question Id : 7155052666 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 :**

7155058431. 3

7155058432. 4

7155058433. 5

7155058434. 6

**Question Number : 16 Question Id : 7155052666 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**

माना तीन सदिश  $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$ ,  $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$  तथा  $\vec{c} = 2\hat{i} + \hat{j} - 4\hat{k}$  हैं। यदि सदिश  $\vec{r}$  के लिए

$\vec{r} \times \vec{a} = (\vec{b} + \vec{c}) \times \vec{a}$  तथा  $\vec{r} \cdot (\vec{b} - \vec{c}) = 0$  है, तो  $\vec{r} \cdot (\hat{i} + \hat{j} - \hat{k})$  बराबर है।

**Options :**

7155058431. 3

7155058432. 4

7155058433. 5

7155058434. 6

**Question Number : 17 Question Id : 7155052667 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 :**

7155058435. 0

7155058436.  $\frac{1}{59}$

7155058437.  $\frac{3}{59}$

7155058438.  $\frac{7}{118}$

**Question Number : 17 Question Id : 7155052667 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**

समीकरण  $1 + x + x^2 + \dots + x^{118} = 0$  के एक यादृच्छया चुने गए मूल के समीकरण  $x^7 = 1$  को संतुष्ट करने की प्रायिकता है।

**Options :**

7155058435. 0

7155058436.  $\frac{1}{59}$

7155058437.  $\frac{3}{59}$

7155058438.  $\frac{7}{118}$

**Question Number : 18 Question Id : 7155052668 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 :**

7155058439.  $\frac{29 \times 2^8}{3^9}$

7155058440.  $\frac{25 \times 2^9}{3^9}$

7155058441.  $\frac{163}{3^9}$

7155058442.  $\frac{835}{3^9}$

**Question Number : 18 Question Id : 7155052668 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**

माना X का द्विपद बंटन  $B(n, p)$  है। यदि इसका माध्य 3 तथा प्रसरण 2 है, तो  $P(X < \frac{n}{4})$  बराबर है।

**Options :**

7155058439.  $\frac{29 \times 2^8}{3^9}$

7155058440.  $\frac{25 \times 2^9}{3^9}$

7155058441.  $\frac{163}{3^9}$

7155058442.  $\frac{835}{3^9}$

**Question Number : 19 Question Id : 7155052669 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 :**

7155058443.  $\left[\sqrt{2} - 1, \frac{3}{5}\right]$

7155058444.  $\left[\frac{3}{5}, \infty\right)$

7155058445.  $\mathbb{R} - \{-\sqrt{2} - 1, \sqrt{2} - 1\}$

7155058446.  $(-\infty, -1 - \sqrt{2}) \cup (\sqrt{2} - 1, \infty)$

**Question Number : 19 Question Id : 7155052669 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**

फलन  $f(x) = \cos^{-1}\left(\frac{x^2 - 3x + 2}{x^2 + 2x - 1}\right)$  का प्रांत है :

**Options :**

7155058443.  $\left(\sqrt{2} - 1, \frac{3}{5}\right]$

7155058444.  $\left[\frac{3}{5}, \infty\right)$

7155058445.  $\mathbb{R} - \{-\sqrt{2} - 1, \sqrt{2} - 1\}$

7155058446.  $(-\infty, -1 - \sqrt{2}) \cup (\sqrt{2} - 1, \infty)$

**Question Number : 20 Question Id : 7155052670 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 :**

7155058447.  $((p \Rightarrow q) \vee p) \Rightarrow q$

7155058448.  $((p \wedge q) \Rightarrow p) \Rightarrow q$

7155058449.  $((p \wedge q) \wedge (\sim q)) \Rightarrow p$

7155058450.  $((p \Rightarrow q) \vee p) \Rightarrow p$

**Question Number : 20 Question Id : 7155052670 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**

निम्न कथनों में कौन सा पुनरूक्ति है ?

**Options :**

7155058447.  $((p \Rightarrow q) \vee p) \Rightarrow q$

7155058448.  $((p \wedge q) \Rightarrow p) \Rightarrow q$

7155058449.  $((p \wedge q) \wedge (\sim q)) \Rightarrow p$

7155058450.  $((p \Rightarrow q) \vee p) \Rightarrow p$

## Mathematics Section B

<b>Section Id :</b>	715505164
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	5
<b>Section Marks :</b>	20

<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>	715505164
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 21 Question Id : 7155052671 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 : 7155052671 Question Type : SA Calculator : None**

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

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

वक्रों  $y + |x| = 3$  तथा  $y = |x-1|$  से घिरे क्षेत्र को वक्र  $y = x^2 + 1$ ,  $m : n$  के अनुपात में बाँटता है, जहाँ  $m$  तथा  $n$  असहभाज्य संख्याएँ हैं, तो  $m + n$  बराबर है \_\_\_\_\_ ।

**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 : 7155052672 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 : 7155052672 Question Type : SA Calculator : None**

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

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

30 एक समान पेन 12 छात्रों को बांटने के ऐसे तरीके, जिनमें प्रत्येक छात्र को कम से कम एक पेन मिले तथा ठीक दो छात्रों को कम से कम दो पेन मिलें, की संख्या है \_\_\_\_\_।

**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 : 7155052673 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 : 7155052673 Question Type : SA Calculator : None**

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

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

माना  $(1+x^2-x^4)^{12} = \sum_{n=0}^{48} a_n x^n$  है। तो  $a_0 + a_2 + a_4 + \dots + a_{44}$  बराबर है \_\_\_\_\_।

**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 : 7155052674 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 :** 7155052674 **Question Type :** SA **Calculator :** None

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

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

यदि श्रेणी  $7 + 10 + 16 + 25 + 37 + \dots$ , के प्रथम  $n$  पदों का योग  $S_n$  है, तो  $S_{30} - S_{20}$  बराबर है \_\_\_\_\_।

**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 :** 7155052675 **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

$f(x) = \left[ x + x^3 \right] + \left| x - x^3 \right| + \left| x + \frac{1}{2} \right|$  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 : 7155052675 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

यदि  $[t]$  महत्तम पूर्णांक  $\leq t$  है, तो ऐसे बिंदुओं, जिन पर फलन  $f(x) = [x+x^3] + |x-x^3| + \left|x + \frac{1}{2}\right|$  विवृत अंतराल

$(-10, 10)$  में अवकलनीय नहीं है, की संख्या है \_\_\_\_\_।

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 : 7155052676 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 : 7155052676 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

यदि  $\int \frac{dx}{(3x^2+5)\sqrt{10x^2+7}} = -\frac{1}{\sqrt{580}} \log_e |f(x)| + C$  है, जहाँ  $C$  एक स्वेच्छ अचर है, तो  $f(0)$  बराबर है \_\_\_\_\_

**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 :** 7155052677 **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 :** 7155052677 **Question Type :** SA **Calculator :** None

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

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

माना अतिपरवलय, जिसकी नाभियाँ  $(1, 5)$ ,  $(1, -1)$  हैं तथा उत्केन्द्रता  $\sqrt{3}$  है, का समीकरण  $x^2 - 2y^2 + ax + by + c = 0$  है। तो  $|a + b + c|$  बराबर है \_\_\_\_\_।

**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 : 7155052678 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 : 7155052678 Question Type : SA Calculator : None**

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

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

माना  $\alpha$  के मान, जिनके लिए बिंदु  $(2, 4, 3)$  तथा समतल  $3x + y + \alpha z + 10 = 0$  के बीच की दूरी  $\sqrt{35}$  इकाई है,  $\alpha_1, \alpha_2$  हैं। तो शीर्षों  $(\alpha_1, \alpha_2, 0)$ ,  $(\alpha_2, \alpha_1, 0)$  तथा  $(\frac{164}{13}, 5, 0)$  के त्रिभुज का क्षेत्रफल \_\_\_\_\_ वर्ग इकाई है।

**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 : 7155052679 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  $\overrightarrow{OA} = -3\hat{i} + 7\hat{j} + 5\hat{k}$ ,  $\overrightarrow{OB} = -5\hat{i} + 7\hat{j} - 3\hat{k}$  and  $\overrightarrow{OC} = \hat{u}$  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 : 7155052679 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

माना O मूल बिंदु है तथा  $\overrightarrow{OA} = -3\hat{i} + 7\hat{j} + 5\hat{k}$ ,  $\overrightarrow{OB} = -5\hat{i} + 7\hat{j} - 3\hat{k}$ , तथा  $\overrightarrow{OC} = \hat{u}$  एक समांतर षट्फलक की भुजाएँ हैं, जहाँ  $\hat{u}$ ,  $xy$ - समतल में एक मात्रक सदिश है। यदि समांतर षट्फलक का अधिकतम आयतन  $2\sqrt{\alpha}$  है, तो  $\alpha$  बराबर है \_\_\_\_\_।

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 : 7155052680 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 : 7155052680 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

यदि अवकल समीकरण  $\frac{x+y-2}{x+y-1} \frac{dy}{dx} = \frac{x+y+2}{x+y+1}$ ,  $x+y > 2$  का हल वक्र बिंदुओं  $(\sqrt{2}, \sqrt{2})$  तथा  $(2, \alpha)$  से

होकर जाता है, तो  $2\alpha - \log_e \left( \frac{\alpha^2 + 4\alpha + 2}{6} \right)$  बराबर है \_\_\_\_\_।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12



**Section Id :** 715505165  
**Section Number :** 3  
**Section type :** Online  
**Mandatory or Optional :** Mandatory  
**Number of Questions :** 50  
**Number of Questions to be attempted :** 50  
**Section Marks :** 200  
**Enable Mark as Answered Mark for Review and Clear Response :** Yes  
**Maximum Instruction Time :** 0  
**Sub-Section Number :** 1  
**Sub-Section Id :** 715505165  
**Question Shuffling Allowed :** Yes  
**Is Section Default? :** null

**Question Number : 31 Question Id : 7155052681 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 :**

7155058461. Type of cement

7155058462. Type of floor finish

7155058463. Type of paint

7155058464. Type of Brick

**Question Number : 31 Question Id : 7155052681 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**

अड़ोब है-

**Options :**

7155058461. सीमेट का प्रकार

7155058462. फ्लोर फिनिश का प्रकार

7155058463. पेन्ट का प्रकार

7155058464. ईट का प्रकार

**Question Number : 32 Question Id : 7155052682 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 :**

7155058465. Both Statement I and Statement II are correct

7155058466. Both Statement I and Statement II are incorrect

7155058467. Statement I is correct but statement II is incorrect

7155058468. Statement I is incorrect but statement II is correct

**Question Number : 32 Question Id : 7155052682 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:

**कथन I :** चण्डीगढ़ भारत की पहली नियोजक शहर है।

**कथन II :** चण्डीगढ़ को स्विस फ्रेंच आर्किटेक्ट ली-कॉर्बूजियर ने बनाया है।

सही विकल्प चुनिये-

**Options :**

7155058465. कथन I व कथन II दोनों सत्य है।

7155058466. दोनों कथन I व कथन II असत्य है।

7155058467. कथन I सत्य है व कथन II असत्य है

7155058468. कथन I असत्य है व कथन II सत्य है

**Question Number : 33 Question Id : 7155052683 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 :**

7155058469. Both Statement I and Statement II are correct

7155058470. Both Statement I and Statement II are incorrect

7155058471. Statement I is correct but statement II is incorrect

7155058472. Statement I is incorrect but statement II is correct

**Question Number : 33 Question Id : 7155052683 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**

**कथन I :** ग्लास की ऊष्मा चालकता कम होती है।

**कथन II :** ग्लास अवशोषित, अपवर्तन व पारगमन कर सकता है।

कथनों के आधार पर सही विकल्प चुनें।

**Options :**

7155058469. दोनों कथन I व कथन II सत्य है।

7155058470. दोनों कथन I व कथन II असत्य है।

7155058471. कथन I सत्य है व कथन II असत्य है।

7155058472. कथन I असत्य है व कथन II सत्य है।

**Question Number : 34 Question Id : 7155052684 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 :**

7155058473. A-I, B-III, C-II, D-IV

7155058474. A-III, B-IV, C-I, D-II

7155058475. A-IV, B-II, C-III, D-I

7155058476. A-IV, B-III, C-I, D-II

**Question Number : 34 Question Id : 7155052684 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**

सूची I व सूची II मिलाइए

सूची I		सूची II	
A.	PMUY	I.	कौशल विकास योजना
B.	PMAY	II.	जन धन योजना
C.	PMKVY	III.	उज्ज्वला योजना
D.	PMJDY	IV.	आवास योजना

सही विकल्प चुनें।

**Options :**

7155058473. A-I, B-III, C-II, D-IV

7155058474. A-III, B-IV, C-I, D-II

7155058475. A-IV, B-II, C-III, D-I

7155058476. A-IV, B-III, C-I, D-II

**Question Number : 35 Question Id : 7155052685 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 :**

7155058477. A-IV, B-II, C-I, D-III

7155058478. A-III, B-I, C-II, D-IV

7155058479. A-II, B-I, C-IV, D-III

7155058480. A-I, B-IV, C-III, D-II

**Question Number : 35 Question Id : 7155052685 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**

सूची I व सूची II मिलाएँ।

सूची I		सूची II	
A.	सी. पी कुकरेजा	I.	IIM अहमदाबाद
B.	लुईस आई काहन	II.	जवाहर लाल नहेरु विश्व विद्यालय
C.	बी.वी दोशी	III.	IIT कानपुर
D.	अच्युत कानविंदे	IV.	IIM बैंगलोर

सही विकल्प चुनें:

**Options :**

7155058477. A-IV, B-II, C-I, D-III

7155058478. A-III, B-I, C-II, D-IV

7155058479. A-II, B-I, C-IV, D-III

7155058480. A-I, B-IV, C-III, D-II

**Question Number : 36 Question Id : 7155052686 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 :**

7155058481. Blue-Orange

7155058482. Red-Green

7155058483. Blue-Green

7155058484. Violet-Yellow

**Question Number : 36 Question Id : 7155052686 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**

निम्न में से कौन परिपूरक रंग नहीं है?

**Options :**

7155058481. नीला-नारंगी

7155058482. लाल-हरा

7155058483. नीला - हरा

7155058484. बैंगनी - पीला

**Question Number : 37 Question Id : 7155052687 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 :**

7155058485. Himachal Pradesh

7155058486. Uttarakhand

7155058487. Uttar Pradesh

7155058488. Madhya Pradesh

**Question Number : 37 Question Id : 7155052687 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**

रॉबर्स केव भारत के किस राज्य में स्थित है?

**Options :**

7155058485. हिमाचल प्रदेश

7155058486. उत्तराखण्ड

7155058487. उत्तर प्रदेश

7155058488. मध्य प्रदेश

**Question Number : 38 Question Id : 7155052688 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 :**

7155058489. Paris

7155058490. Dubai

7155058491. Kuala Lumpur

7155058492. New York

**Question Number : 38 Question Id : 7155052688 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**

पेट्रोनस टावर उपस्थित है -

**Options :**

7155058489. पेरिस

7155058490. दुबई

7155058491. कुआला लम्पुर

7155058492. न्यूयॉर्क

**Question Number : 39 Question Id : 7155052689 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 :**

7155058493. Madhya Pradesh

7155058494. Odisha

7155058495. Karnataka

7155058496. Rajasthan

**Question Number : 39 Question Id : 7155052689 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**

कोनार्क मंदिर किस राज्य में स्थित है?

**Options :**

7155058493. मध्य प्रदेश

7155058494. ओड़िशा

7155058495. कर्नाटक

7155058496. राजस्थान

**Question Number : 40 Question Id : 7155052690 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 :**

7155058497. Louis I Kahn

7155058498. Mohse Safdi

7155058499. Fariborz Sahba

7155058500. Richard Meyer

**Question Number : 40 Question Id : 7155052690 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**

लोटस टेम्पल का रचनाकार कौन है?

**Options :**

7155058497. लुई आई कान

7155058498. मोशे सफदाई

7155058499. फरीबोर्ज सहबा

7155058500. रिचर्ड मेयर

**Question Number : 41 Question Id : 7155052691 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 :**

7155058501. A dead Bearer

7155058502. A Dumb Waiter

7155058503. A Jockey Boy

7155058504. A push upper

**Question Number : 41 Question Id : 7155052691 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**

कम वजन उठाने वाली छोटी लिफ्ट को कहते है?

**Options :**

7155058501. ए डेड बिअरर

7155058502. ए डम्ब वेटर

7155058503. ए जोकी बॉय

7155058504. ए पुश अपर

**Question Number : 42 Question Id : 7155052692 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 :**

7155058505. Bhubaneswar-Puri

7155058506. Puri-Cuttack

7155058507. Bhubaneswar-Cuttack

7155058508. Bhubaneswar-Rourkela

**Question Number : 42 Question Id : 7155052692 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**

निम्न में से कौन ओड़िसा की जुड़वा शहर कहे जाते है -

**Options :**

7155058505. भुवनेश्वर-पुरी

7155058506. पुरी - कटक

7155058507. भुवनेश्वर - कटक

7155058508. भुवनेश्वर - राउरकेला

**Question Number : 43 Question Id : 7155052693 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 :**

7155058509. Mesopotamia-Harappa-Egyptian-Chinese

7155058510. Mesopotamia-Egyptian-Harappa-Chinese

7155058511. Mesopotamia-Chinese-Harappa-Egyptian

7155058512. Egyptian-Mesopotamia-Harappa-Sumerian

**Question Number : 43 Question Id : 7155052693 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**

मानव सभ्यता का उनकी उपस्थिति के आधार पर सही क्रम कौन-सा है?

**Options :**

7155058509. मेसोपोटामिया -हरप्पा - इजिप्शियन - चाइनीज

7155058510. मेसोपोटामिया - इजिप्शियन- हरप्पा- चाइनीज

7155058511. मेसोपोटामिया- चाइनीज- हरप्पा - इजिप्शियन

7155058512. इजिप्शियन - मेसोपोटाशियम- हरप्पा - सुमेरियन

**Question Number : 44 Question Id : 7155052694 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 :**

7155058513. Shah Jahan

7155058514. Jahangir

7155058515. Akbar

7155058516. Qutub ud-din Aibak

**Question Number : 44 Question Id : 7155052694 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**

दिल्ली की कुतुब मीनार किसके बनवाई थी?

**Options :**

7155058513. शाहजहान

7155058514. जहाँगीर

7155058515. अकबर

7155058516. कुतुब-उद्दीन ऐबक

**Question Number : 45 Question Id : 7155052695 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 :**

7155058517. North

7155058518. South

7155058519. East

7155058520. West

**Question Number : 45 Question Id : 7155052695 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**

दक्षिणी गोलार्द्ध में किस दिशा में आपको वर्ष भर चकाचौंध मुक्त प्रकाश प्राप्त होगा?

**Options :**

7155058517. उत्तर

7155058518. दक्षिण



7155058519. पूर्व

7155058520. पश्चिम

**Question Number : 46 Question Id : 7155052696 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 :**

7155058521. Raj Rewal

7155058522. Charles Correa

7155058523. Achyut Kanvinde

7155058524. Hafeez Contractor

**Question Number : 46 Question Id : 7155052696 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**

जवाहर कला केन्द्र का रचनाकार कौन है?

**Options :**

7155058521. राज रेवल

7155058522. चार्ल्स कोरिया

7155058523. अच्युत कानविन्दे

7155058524. हाफ़ीज कॉन्ट्रेक्टर

**Question Number : 47 Question Id : 7155052697 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 :**

7155058525. Coastal Areas

7155058526. Plains

7155058527. Mountainous Region

7155058528. Desert Areas

**Question Number : 47 Question Id : 7155052697 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**

धज्जी-देवारी निर्माण शैली कहाँ लोकप्रिय है?

**Options :**

7155058525. तटवर्तीय क्षेत्र

7155058526. समतल

7155058527. पहाड़ी इलाका

7155058528. रेगिस्तान

**Question Number : 48 Question Id : 7155052698 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 :**

7155058529. Marble

7155058530. Granite

7155058531. Shale

7155058532. Sand Stone

**Question Number : 48 Question Id : 7155052698 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**

पहाड़ी क्षेत्र में छत बनाने के लिये कौन सा पत्थर उपयोग करते है?

**Options :**

7155058529. मार्बल

7155058530. ग्रेनाइट

7155058531. शैल

7155058532. बालू पत्थर

**Question Number : 49 Question Id : 7155052699 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 :**

7155058533. Radio Centric

7155058534. Grid-iron

7155058535. Linear

7155058536. Organic

**Question Number : 49 Question Id : 7155052699 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**

चण्डीगढ़ किस तरह के नियोजन का उदाहरण है?

**Options :**

7155058533. रेडियो सेन्ट्रिक

7155058534. ग्रिड आयरन

7155058535. लिनियर

7155058536. ऑर्गेनिक

**Question Number : 50 Question Id : 7155052700 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 :**

7155058537. Those facing North

7155058538. Those facing South

7155058539. Those facing East

7155058540. Those facing West

**Question Number : 50 Question Id : 7155052700 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**

अगर आपको गोवा के समुद्री किनारे पर निर्माण करना है, तो कौन-सा कमरा समुद्र का दृश्य देगा?

**Options :**

7155058537. उत्तर की ओर

7155058538. दक्षिण की ओर

7155058539. पूर्व की ओर

7155058540. पश्चिम की ओर

**Question Number : 51 Question Id : 7155052701 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 :**

7155058541. B.V Doshi

7155058542. C.P Kukreja

7155058543. Raj Rewal

7155058544. Bimal Patel

**Question Number : 51 Question Id : 7155052701 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**

नेशनल इन्स्टीट्यूट ऑफ फैशन टेक्नोलॉजी ("NIFT") किसने बनाया है?

**Options :**

7155058541. बी.वी दोशी

7155058542. सी.पी कुकुरेजा

7155058543. राज रेवल

7155058544. विमल पटेल





**Question Number : 52 Question Id : 7155052702 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 :**

7155058545. A-II, B-I, C-IV, D-III

7155058546. A-I, B-III, C-IV, D-II





7155058547. A-I, B-II, C-III, D-IV

7155058548. A-IV, B-III, C-II, D-I

Question Number : 52 Question Id : 7155052702 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

सूची I को सूची II से मिलाये-

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

नीचे दिये विकल्पों :

Options :

7155058545. A-II, B-I, C-IV, D-III

7155058546. A-I, B-III, C-IV, D-II







7155058547. A-I, B-II, C-III, D-IV

7155058548. A-IV, B-III, C-II, D-I

**Question Number : 53 Question Id : 7155052703 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 :**

7155058549. A-IV, B-I, C-II, D-III

7155058550. A-II, B-III, C-I, D-IV





7155058551. A-III, B-II, C-I, D-IV

7155058552. A-IV, B-III, C-II, D-I

Question Number : 53 Question Id : 7155052703 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

सूची I व सूची II को मिलान करिए।

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

नीचे दिये गये विकल्पों में से सही उत्तर का चयन कीजिए।

Options :

7155058549. A-IV, B-I, C-II, D-III

7155058550. A-II, B-III, C-I, D-IV

7155058551. A-III, B-II, C-I, D-IV

7155058552. A-IV, B-III, C-II, D-I

**Question Number : 54 Question Id : 7155052704 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 :**

7155058553. Both Statement I and Statement II are correct

7155058554. Both Statement I and Statement II are incorrect

7155058555. Statement I is correct but statement II is incorrect

7155058556. Statement I is incorrect but statement II is correct

**Question Number : 54 Question Id : 7155052704 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**

**कथन I :** लाल, नीला एवं पीला, रंग पहिये के प्राथमिक रंग हैं

**कथन II :** रंग जो रंग पहिये में एक-दूसरे के विपरित रखे जाते है रंग पर उनको परिपूरक रंग कहते है।

सही विकल्प चुनो।

**Options :**

7155058553. कथन I व कथन II सत्य है।

7155058554. दोनो कथन I व कथन II असत्य है।

7155058555. कथन I सत्य व कथन II असत्य है।

7155058556. कथन I असत्य व कथन II सत्य है।

**Question Number : 55 Question Id : 7155052705 Question Type : MCQ Option Shuffling : Yes Is**

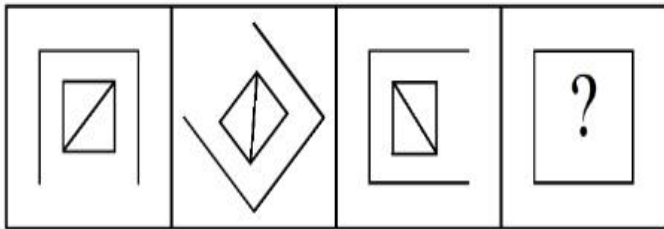
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

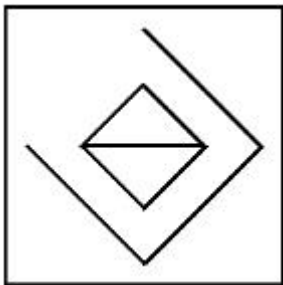
**Correct Marks : 4 Wrong Marks : 1**

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.

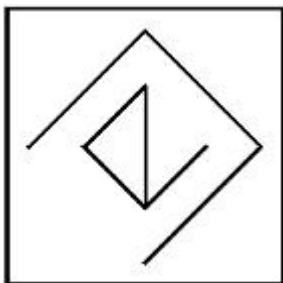
PROBLEM FIGURES



**Options :**

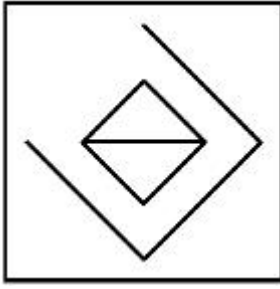


7155058557.

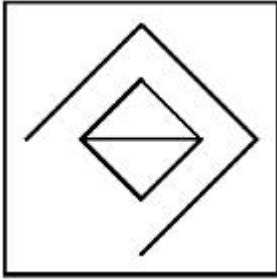


7155058558.

7155058559.



7155058560.



Question Number : 55 Question Id : 7155052705 Question Type : MCQ Option Shuffling : Yes Is

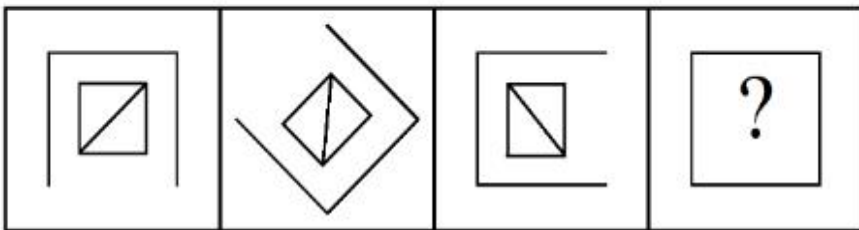
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

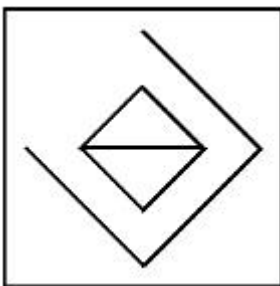
प्रश्न चित्र की श्रृंखला को पूरा करता हुआ, उत्तर विकल्पों में से सही विकल्प चुनिए।

PROBLEM FIGURES

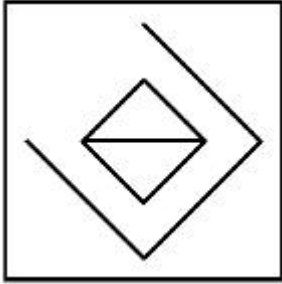
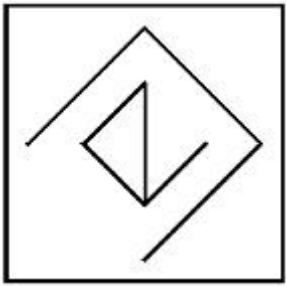


Options :

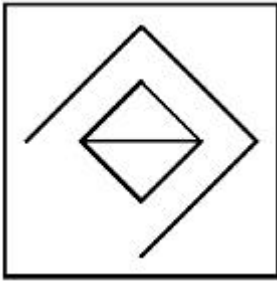
7155058557.



7155058558.



7155058559.

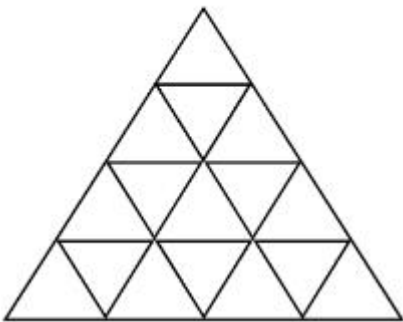


7155058560.

**Question Number : 56 Question Id : 7155052706 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 :**

7155058561. 26

7155058562. 25

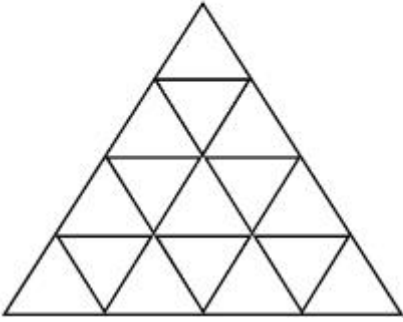
7155058563. 27

7155058564. 24

**Question Number : 56 Question Id : 7155052706 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**

दिये गये प्रश्न में कितने त्रिभुज हैं?



**Options :**

7155058561. 26

7155058562. 25

7155058563. 27

7155058564. 24

**Question Number : 57 Question Id : 7155052707 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 :**

7155058565. 59

7155058566. 32

7155058567. 25

7155058568. 9

**Question Number : 57 Question Id : 7155052707 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**

विषम संख्या ज्ञात कीजिए।

7, 9, 25, 32, 43, 59

**Options :**

7155058565. 59

7155058566. 32

7155058567. 25

7155058568. 9

**Question Number : 58 Question Id : 7155052708 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 :**

7155058569. 45.6 meter

7155058570. 50 meter

7155058571. 50.4 meter

7155058572. 51.6 meter

**Question Number : 58 Question Id : 7155052708 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**

एक आवासीय भवन में 15 तल है। भूतल की ऊँचाई 4.2 मीटर (स्लैब की चौड़ाई व लम्बाई)। बाकी सब तल की ऊँचाई 3.3 मीटर है। भवन की कुल ऊँचाई (भूतल से हल तक) मीटर में कितनी है?

**Options :**

7155058569. 45.6 मीटर

7155058570. 50 मीटर

7155058571. 50.4 मीटर

7155058572. 51.6 मीटर

**Question Number : 59 Question Id : 7155052709 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 :**

7155058573. 22ECCU2

7155058574. 22ECCU2

7155058575. SUCCESS

7155058576. SSECCUS

**Question Number : 59 Question Id : 7155052709 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**

प्रश्न शब्द का दर्पण प्रतिबिम्ब चुनिए -

SUCCESS

**Options :**

7155058573. 22ECCU2

7155058574. 22ECCU2

7155058575. SUCCESS

7155058576. SSECCUS

**Question Number : 60 Question Id : 7155052710 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 :**

7155058577. 0.7 km

7155058578. 7000 mm

7155058579. 7 km

7155058580. 70 meter

**Question Number : 60 Question Id : 7155052710 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**

नक्शे का माप 1:1000 है। यदि कोई कार बिन्दु 'A' से बिन्दु 'B' तक 7 cm यात्रा करती है नक्शे पर। तो कार वास्तविकता में कितनी यात्रा करती है?

**Options :**

7155058577. 0.7 km

7155058578. 7000 mm

7155058579. 7 km

7155058580. 70 meter

**Question Number : 61 Question Id : 7155052711 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 :**

7155058581. 8 meter  $\times$  4 meter

7155058582. 80 meter  $\times$  40 meter

7155058583. 8 centimeter  $\times$  4 centimeter

7155058584. 4 meter  $\times$  2 meter

**Question Number : 61 Question Id : 7155052711 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**

एक भूमि का टुकड़े का माप 80 मीटर  $\times$  40 मीटर है जिसे एक आवास बनाने के लिये 1:100 माप पर पेपर पर बनाया गया है। पेपर पर बनाये गये भूमि का माप क्या होगा?

**Options :**

7155058581. 8 मी.  $\times$  4 मी.

7155058582. 80 मी.  $\times$  40 मी.

7155058583. 8 मी.  $\times$  4 मी.

7155058584. 4 मी.  $\times$  2 मी.

**Question Number : 62 Question Id : 7155052712 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 :**

7155058585. 523

7155058586. 521

7155058587. 524

7155058588. 520

**Question Number : 62 Question Id : 7155052712 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**

दिये हुये श्रृंखला में खोया हुआ नम्बर ज्ञात करें।

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

**Options :**

7155058585. 523

7155058586. 521

7155058587. 524

7155058588. 520

**Question Number : 63 Question Id : 7155052713 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 :**

7155058589. KVCMA

7155058590. KWCNB

7155058591. KUCLA

7155058592. KVCNA

**Question Number : 63 Question Id : 7155052713 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**

किसी कोड़ भाषा में ROMAN को TQOCP लिखा गया है। तो उसी भाषा में ITALY को क्या लिखेंगे?

**Options :**

7155058589. KVCMA

7155058590. KWCNB

7155058591. KUCLA

7155058592. KVCNA

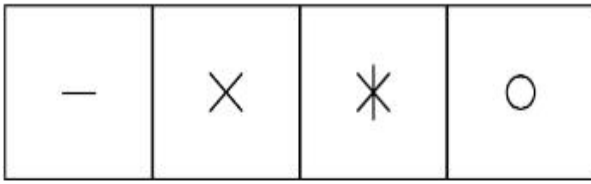
**Question Number : 64 Question Id : 7155052714 Question Type : MCQ Option Shuffling : Yes Is**

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

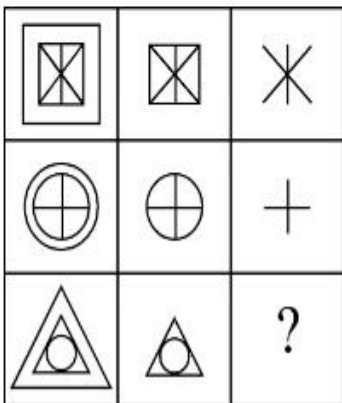
**Instruction Time : 0**

**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 :**

7155058593. D

7155058594. C

7155058595. B

7155058596. A

**Question Number : 64 Question Id : 7155052714 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**

चार दिये गये विकल्पों में से सबसे सही विकल्प चुनें जो खाली जगह पर भराद जायेगा?

—	×	*	○
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(A) (B) (C) (D)

**Options :**

7155058593. D

7155058594. C

7155058595. B

7155058596. A

**Question Number : 65 Question Id : 7155052715 Question Type : MCQ Option Shuffling : Yes Is**

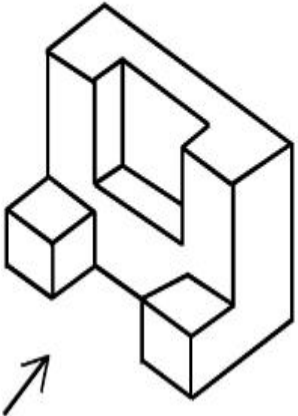
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

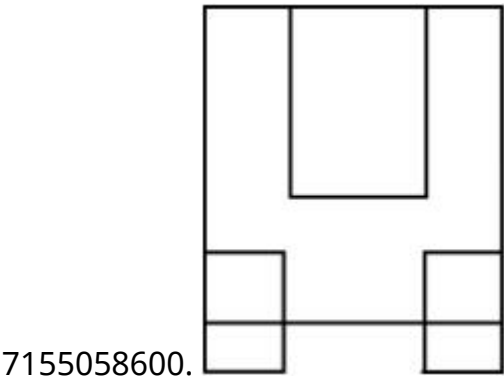
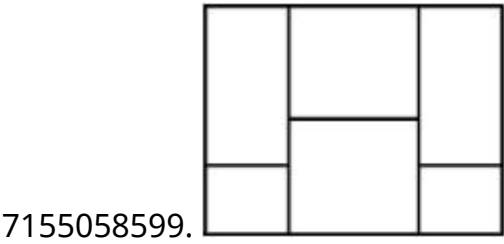
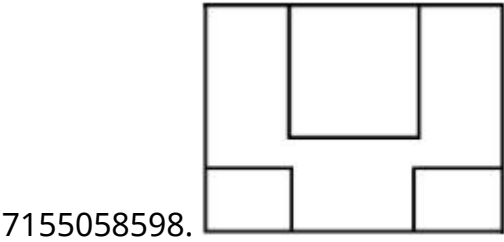
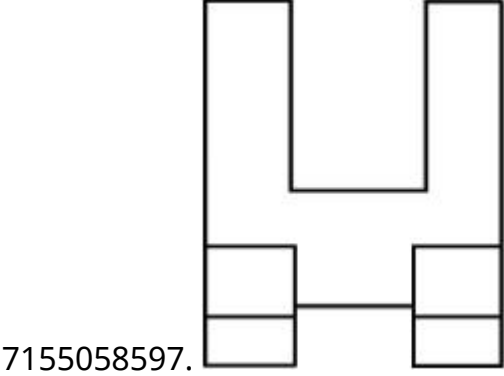
**Correct Marks : 4 Wrong Marks : 1**



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 :



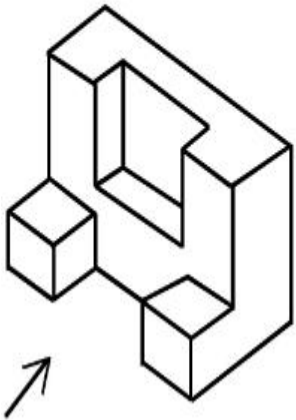
Question Number : 65 Question Id : 7155052715 Question Type : MCQ Option Shuffling : Yes Is

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

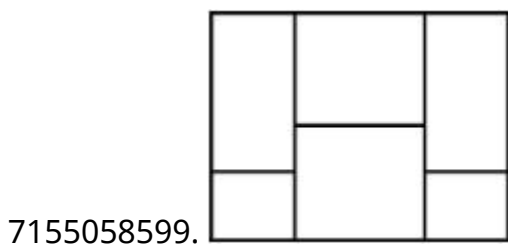
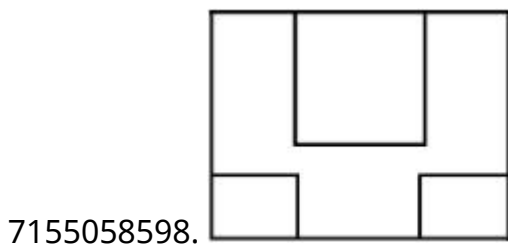
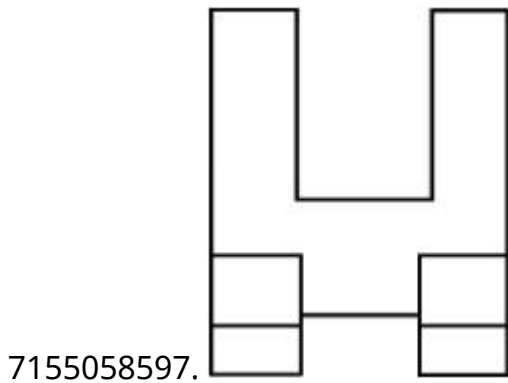
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

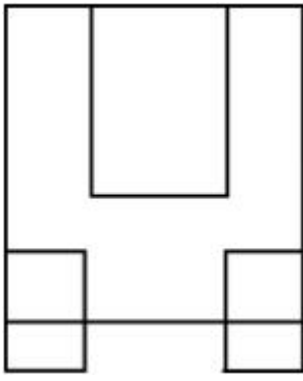
प्रश्न चित्र में एक वस्तु का 3D दृश्य दिखाया गया है। तीर की दिशा में देखते हुये वस्तु का सम्मुख दृश्य दिये विकल्पों में चुनिए।



Options :



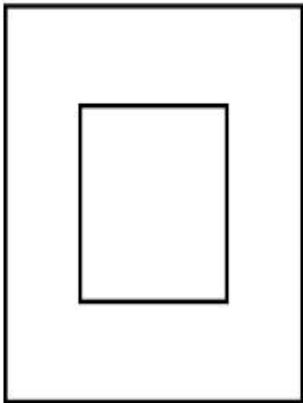
7155058600.



**Question Number : 66 Question Id : 7155052716 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

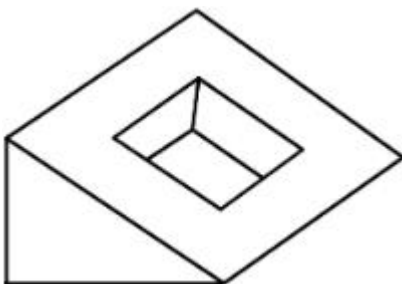
**Correct Marks : 4 Wrong Marks : 1**

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

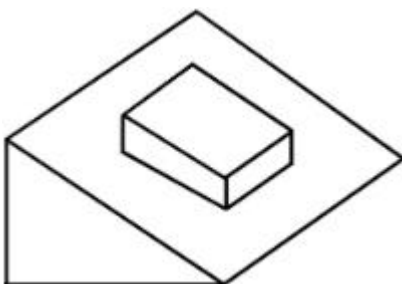


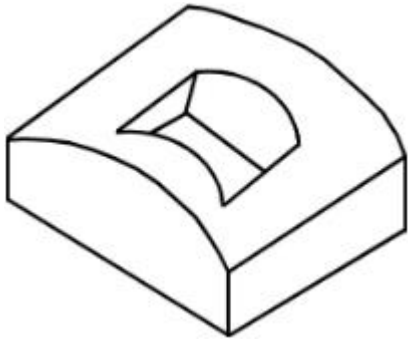
**Options :**

7155058601.

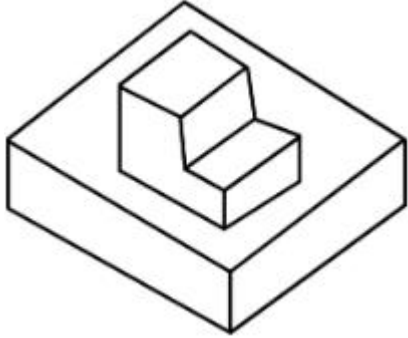


7155058602.





7155058603.

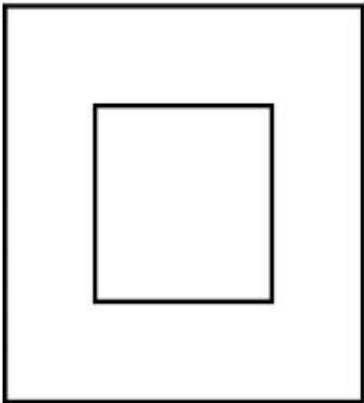


7155058604.

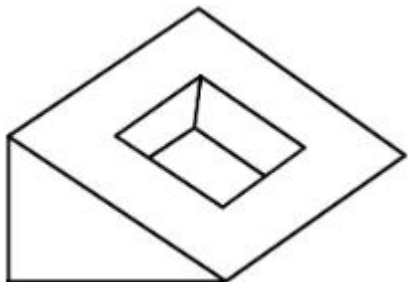
**Question Number : 66 Question Id : 7155052716 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

प्रश्न चित्र में वस्तु का ऊपरी दृश्य दिया गया है। दिये गये विकल्पों में गलत 3D दृश्य चुनें।

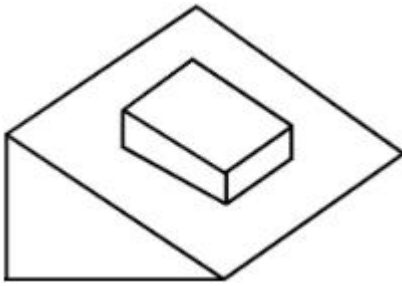


**Options :**

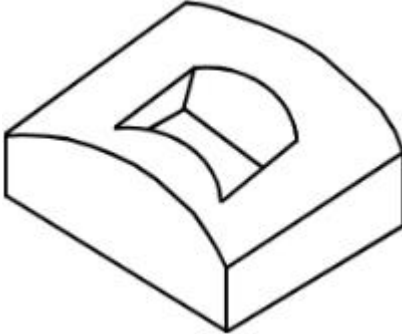


7155058601.

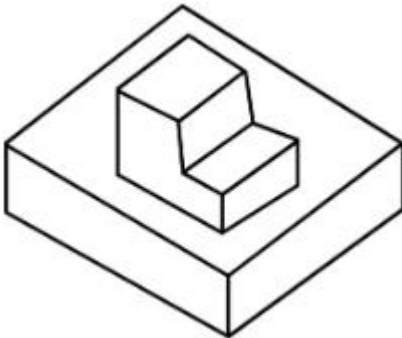
7155058602.



7155058603.



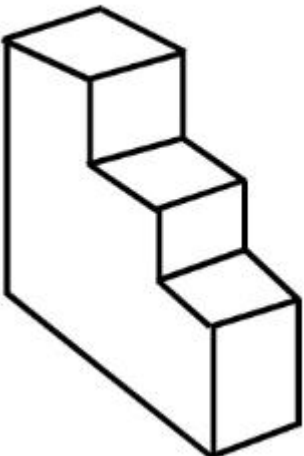
7155058604.



**Question Number : 67 Question Id : 7155052717 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 :**

7155058605. 9

7155058606. 10

7155058607. 8

7155058608. 11

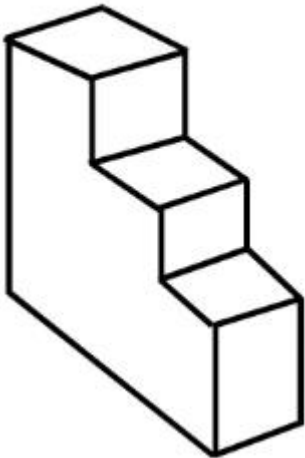
**Question Number : 67 Question Id : 7155052717 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

दी गई वस्तु के पृष्ठों की संख्या ज्ञात करें।



**Options :**

7155058605. 9

7155058606. 10

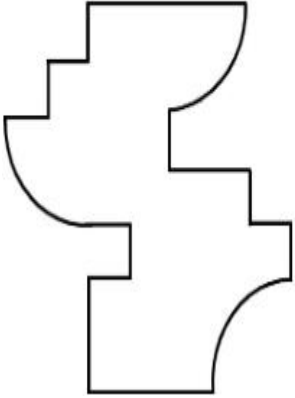
7155058607. 8

7155058608. 11

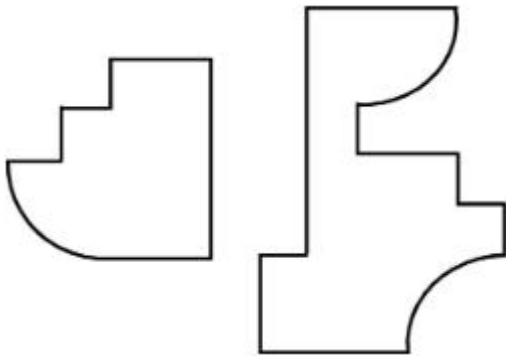
Question Number : 68 Question Id : 7155052718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

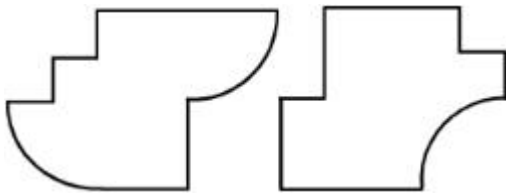
If the question figure is cut into two parts, which of the answer figures complete the question figure without any overlappings?



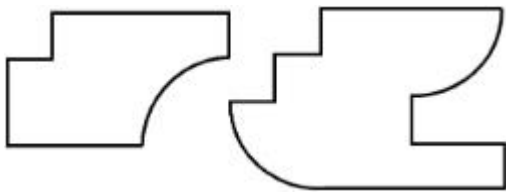
Options :



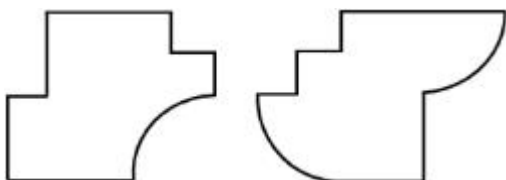
7155058609.



7155058610.



7155058611.

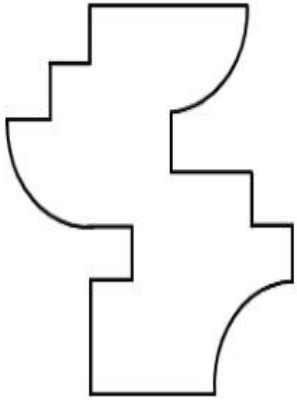


7155058612.

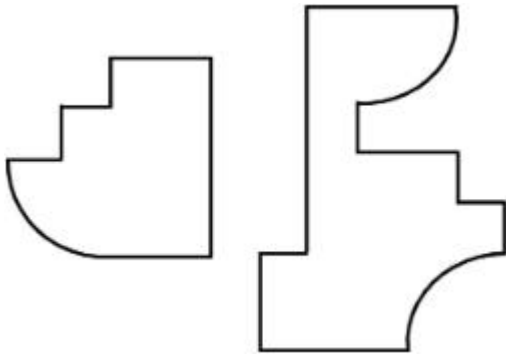
Question Number : 68 Question Id : 7155052718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

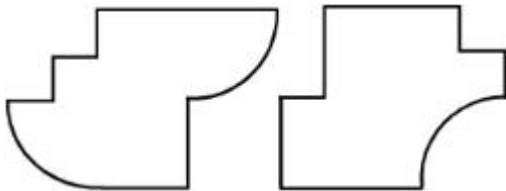
अगर प्रश्न चित्र को दो भागों में बाँटा जाये तो कौन सा विकल्प चित्र को पूरा करेगा बिना एक दूसरे को ढके हुये।



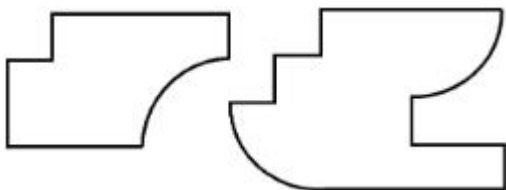
Options :



7155058609.



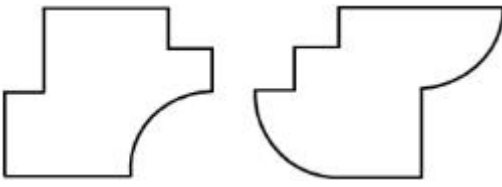
7155058610.



7155058611.

7155058612.

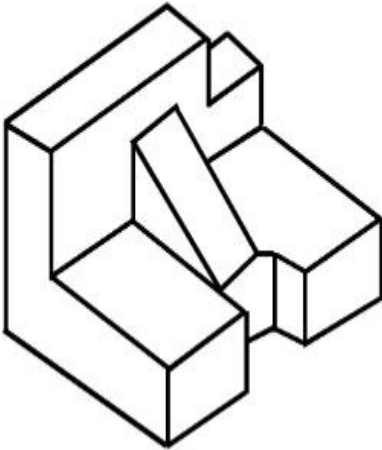




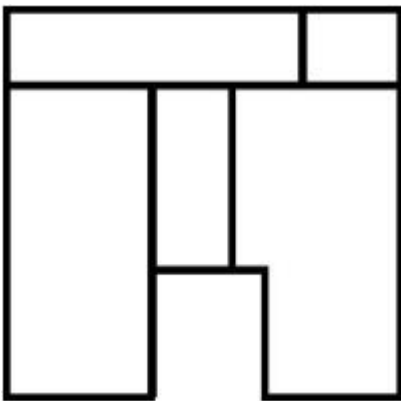
**Question Number : 69 Question Id : 7155052719 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**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.

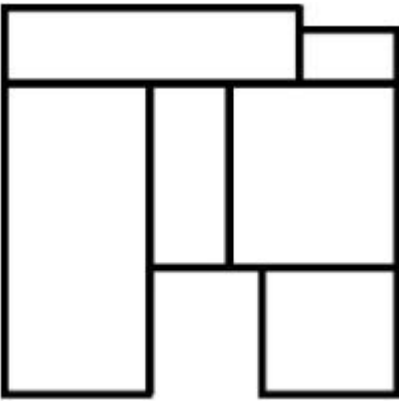


**Options :**

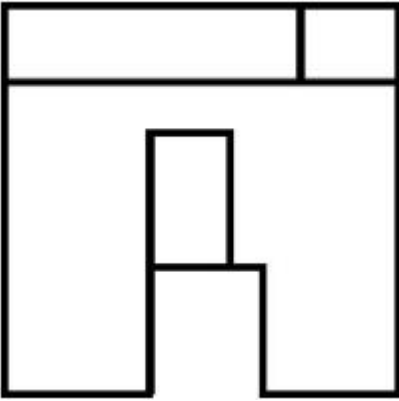


7155058613.

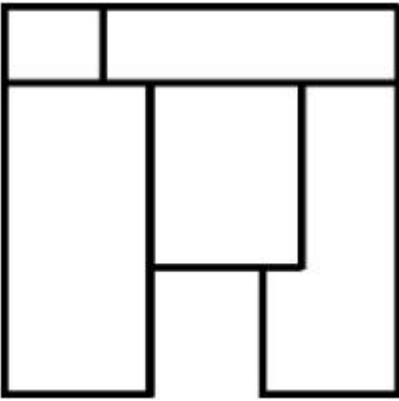
7155058614.



7155058615.



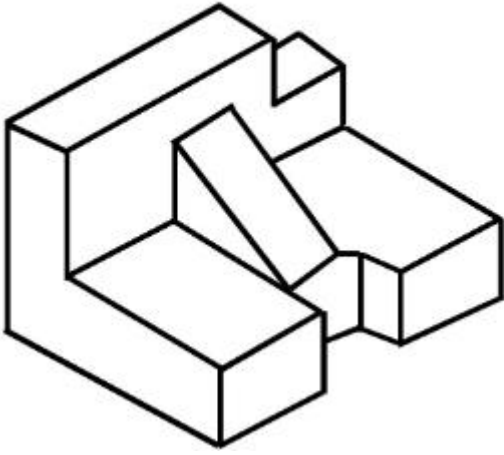
7155058616.



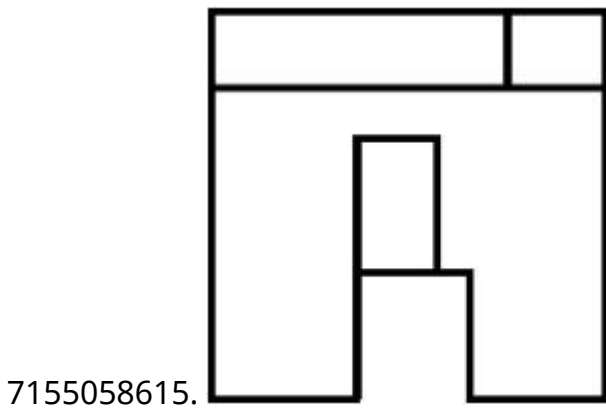
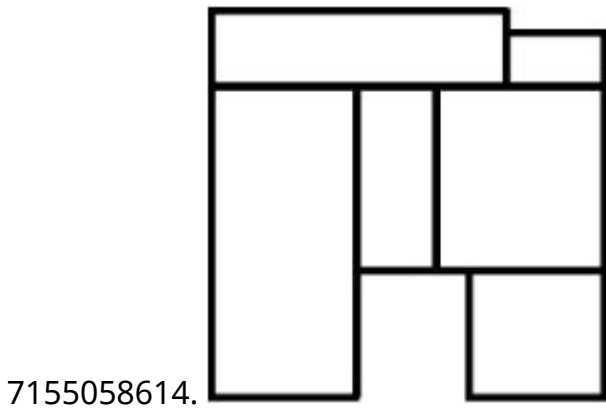
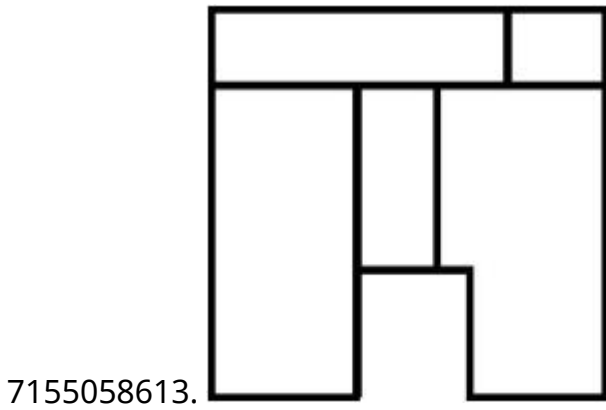
**Question Number : 69 Question Id : 7155052719 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

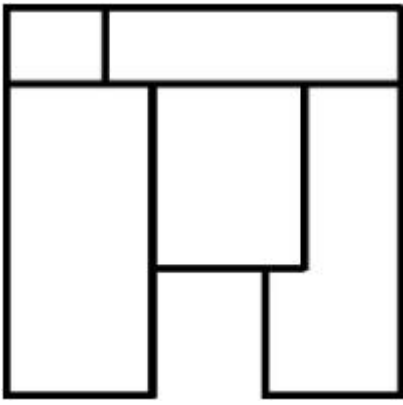
प्रश्न में दिये गये 3D दृश्य का ऊपरी दृश्य ज्ञात करें।



Options :



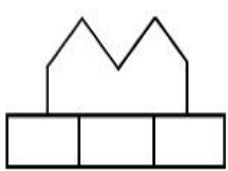
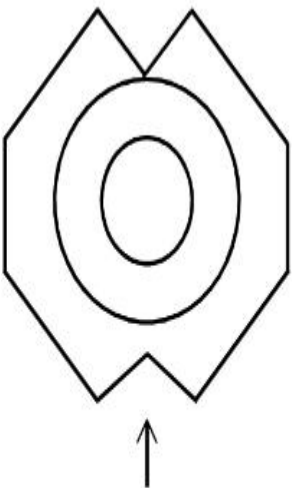
7155058616.



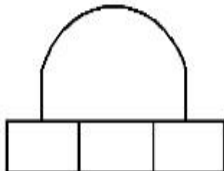
Question Number : 70 Question Id : 7155052720 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

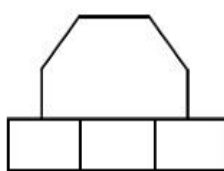
Identify the correct elevation when you look into the object from the marked arrow side of the plan of the object.



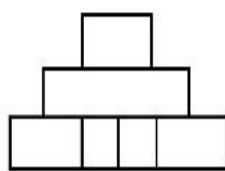
A



B



C



D

Options :

7155058617. D

7155058618. A

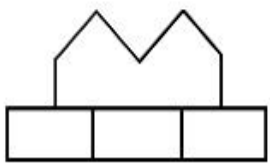
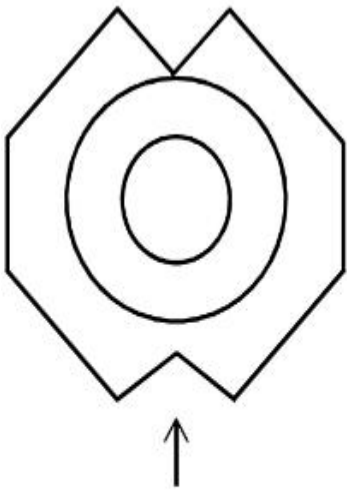
7155058619. B

7155058620. C

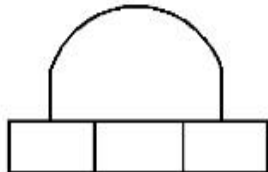
Question Number : 70 Question Id : 7155052720 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

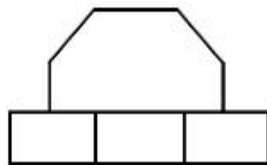
दिये गये वस्तु के ऊपरी दृश्य का तीर की दिशा में देखते हुये सम्मुख दृश्य ज्ञात करें।



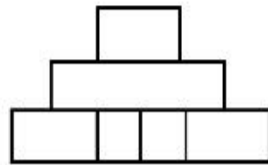
A



B



C



D

Options :

7155058617. D

7155058618. A

7155058619. B

7155058620. C

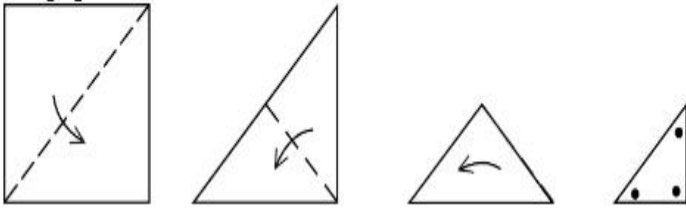
Question Number : 71 Question Id : 7155052721 Question Type : MCQ Option Shuffling : Yes Is

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

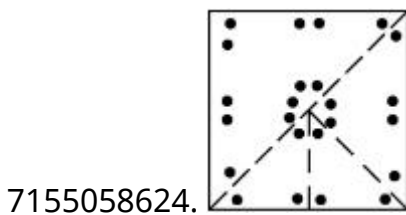
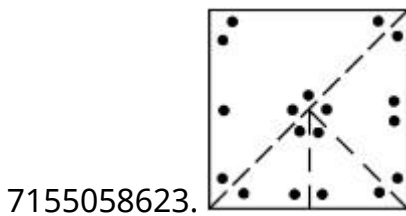
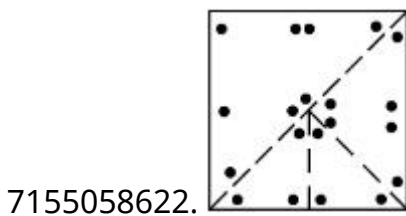
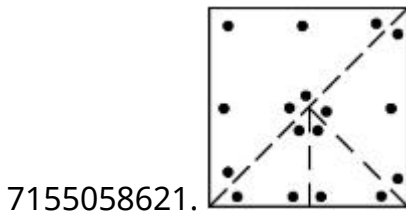
**Instruction Time : 0**

**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 : 7155052721 Question Type : MCQ Option Shuffling : Yes Is**

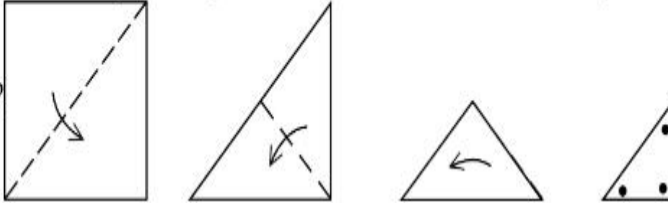
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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

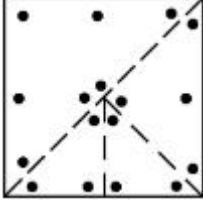
एक पेपर को दी गई श्रृंखला में मोड़ा जाता है और उसे अन्त से काट दिया जाता है। पेपर को वापस खोलने पर

कौन-सी श्रृंखला बनेगी?

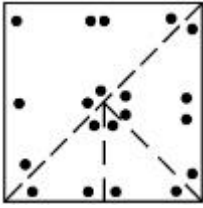


Options :

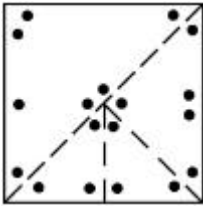
7155058621.



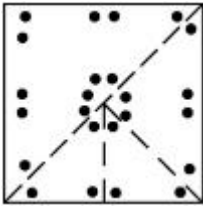
7155058622.



7155058623.



7155058624.



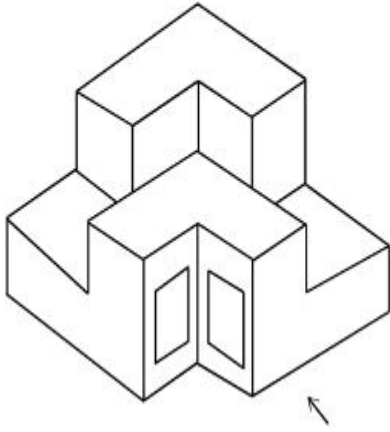
Question Number : 72 Question Id : 7155052722 Question Type : MCQ Option Shuffling : Yes Is

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

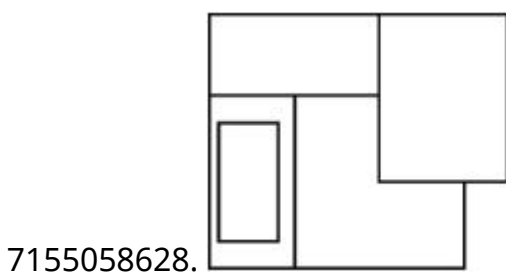
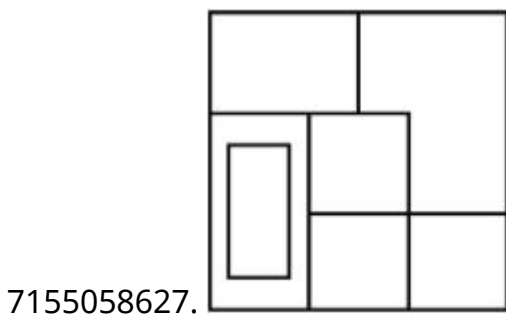
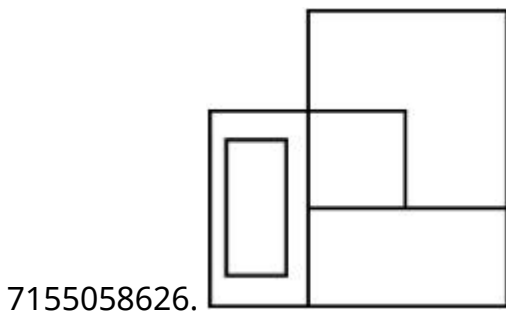
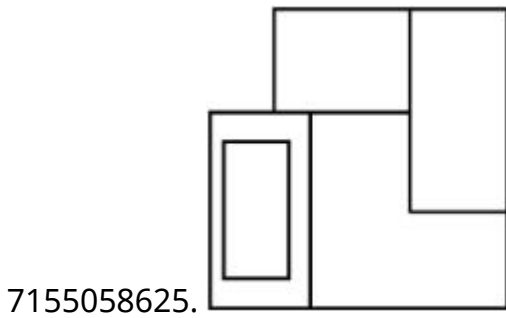
Instruction Time : 0

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 :**

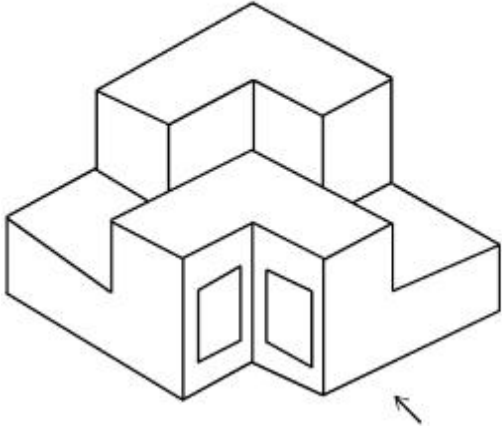




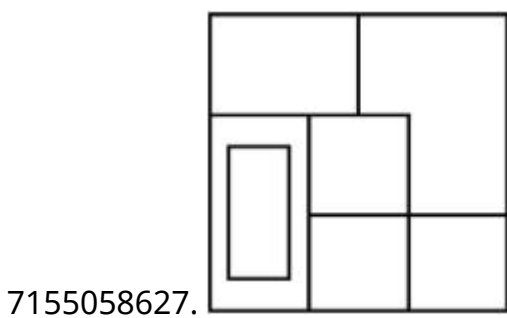
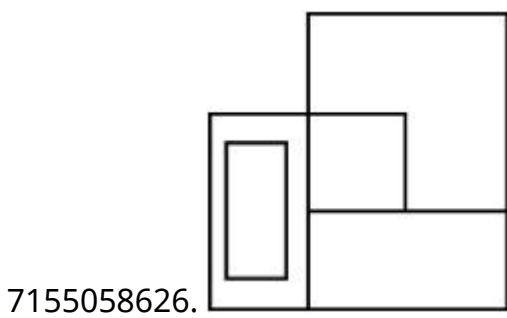
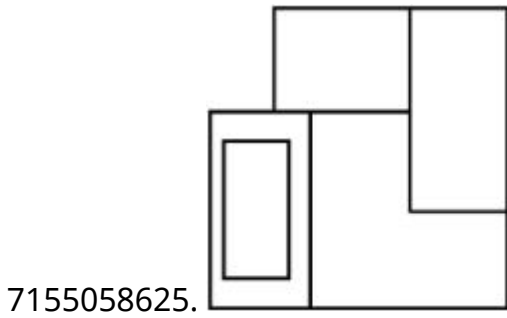
Question Number : 72 Question Id : 7155052722 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

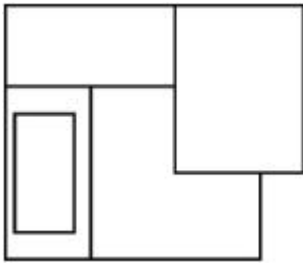
प्रश्न में दिये गये 3-D दृश्य का तीर की दिशा में देखते हुये सम्मुख दृश्य ज्ञात करें।



Options :



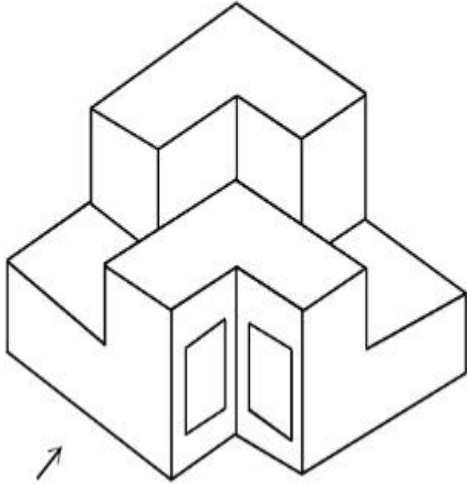
7155058628.



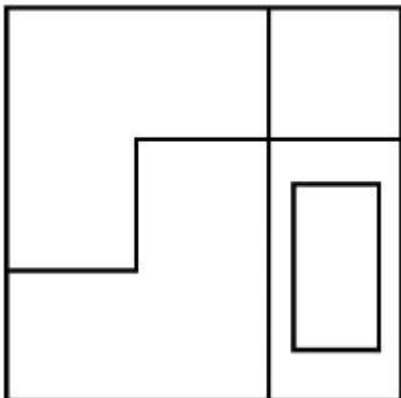
**Question Number : 73 Question Id : 7155052723 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**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.

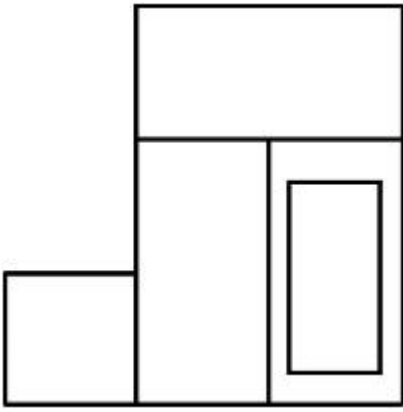


**Options :**

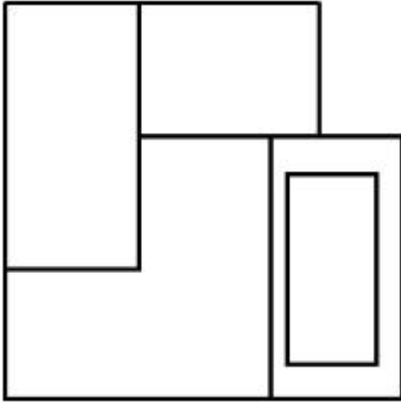


7155058629.

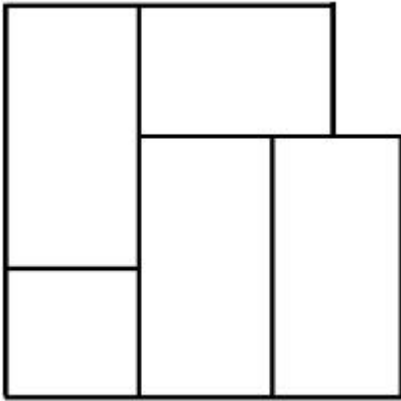
7155058630.



7155058631.



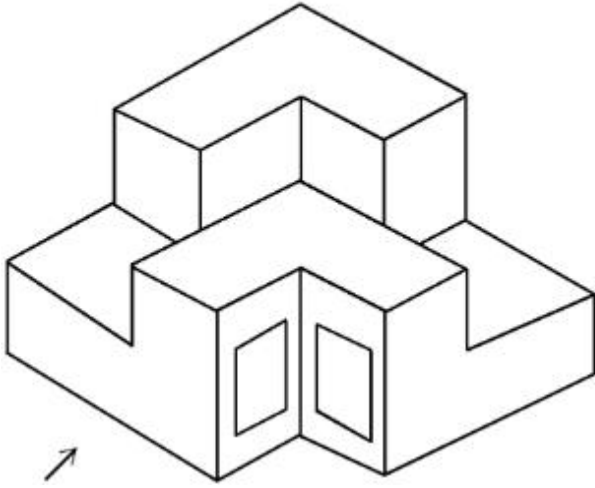
7155058632.



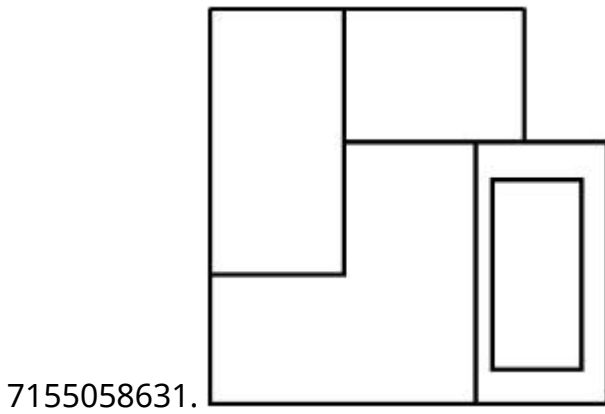
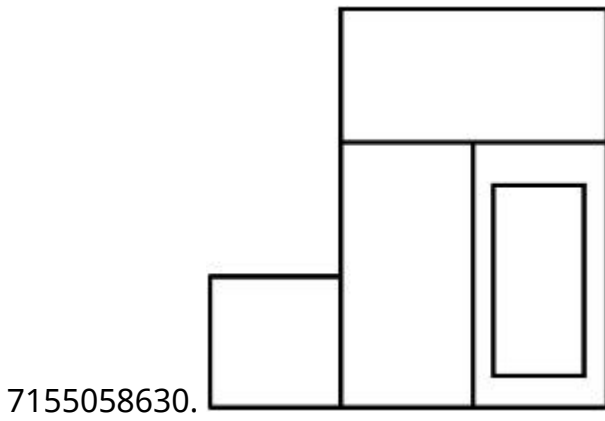
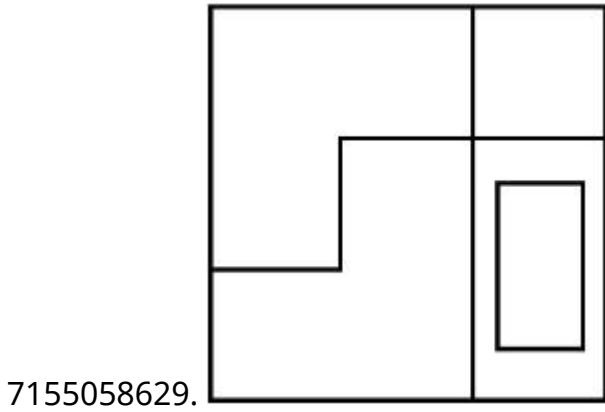
**Question Number : 73 Question Id : 7155052723 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

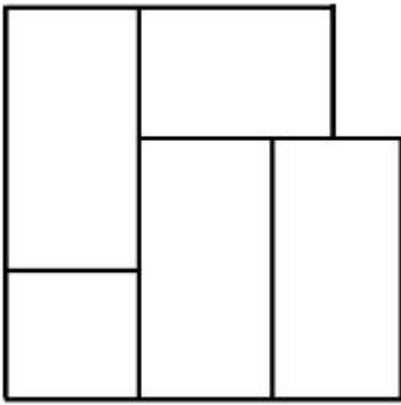
दिये गये 3-D दृश्य का तीर की दिशा में देखते हुये, सम्मुख दृश्य विकल्पों में चुनें।



Options :



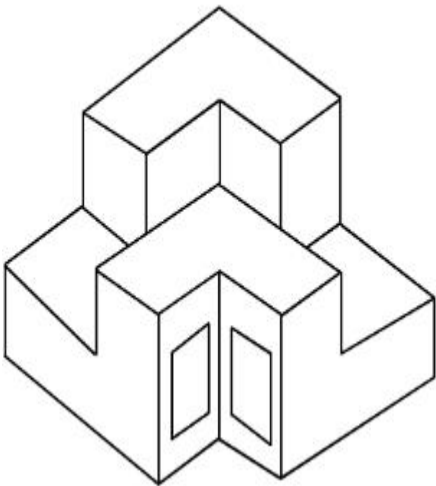
7155058632.



**Question Number : 74 Question Id : 7155052724 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

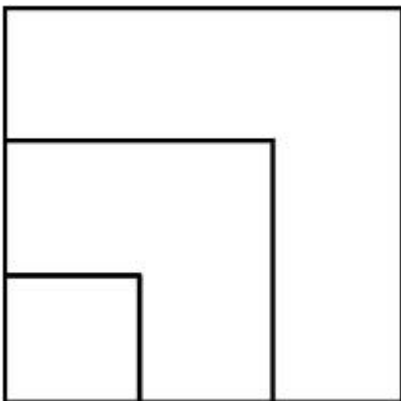
**Correct Marks : 4 Wrong Marks : 1**

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

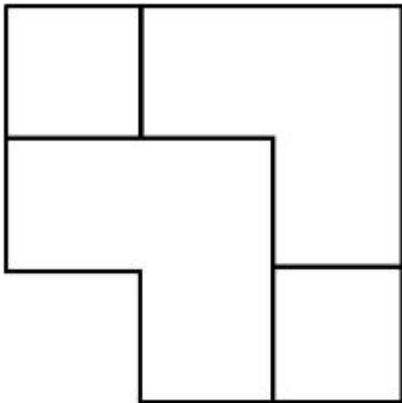
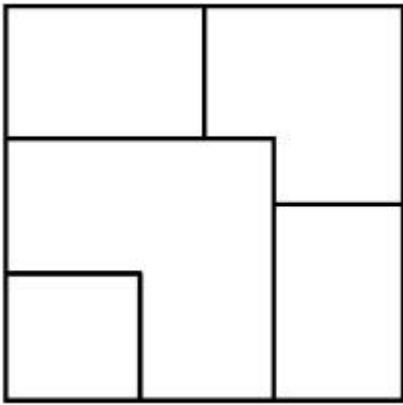


**Options :**

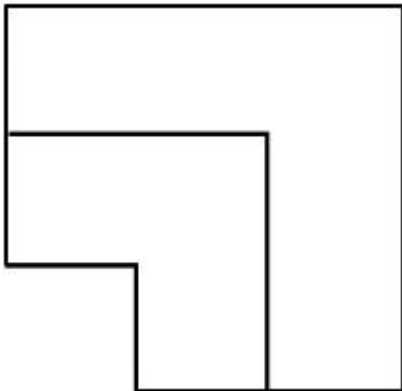
7155058633.



7155058634.



7155058635.



7155058636.

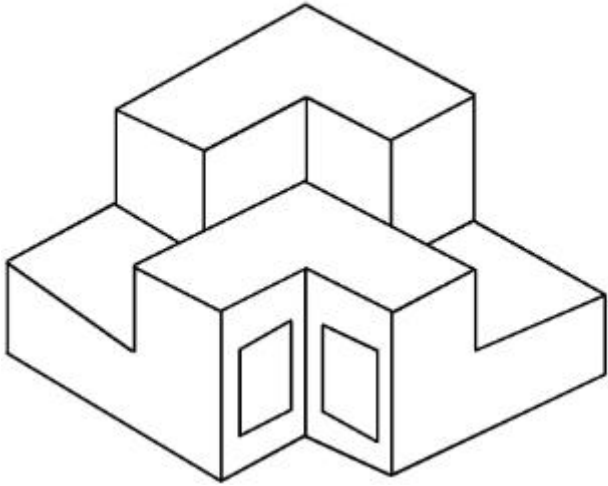
**Question Number : 74 Question Id : 7155052724 Question Type : MCQ Option Shuffling : Yes Is**

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

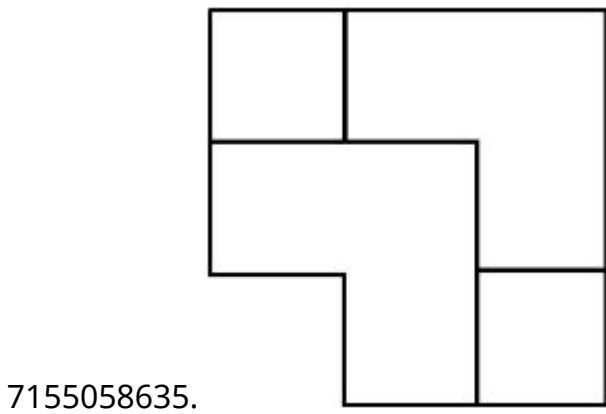
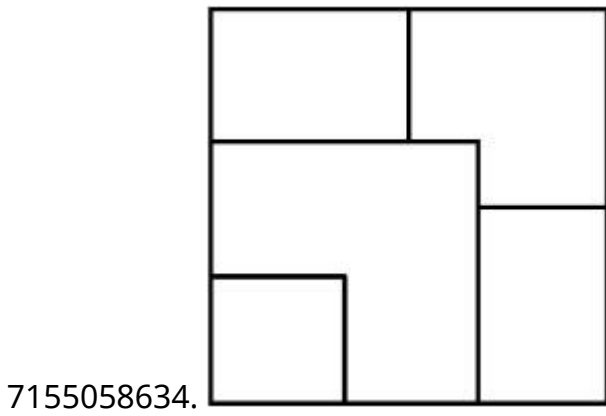
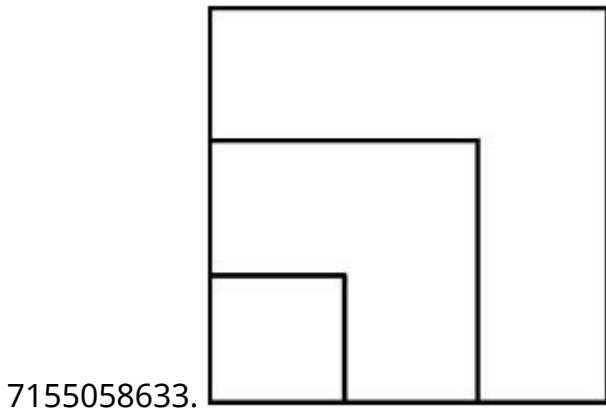
**Instruction Time : 0**

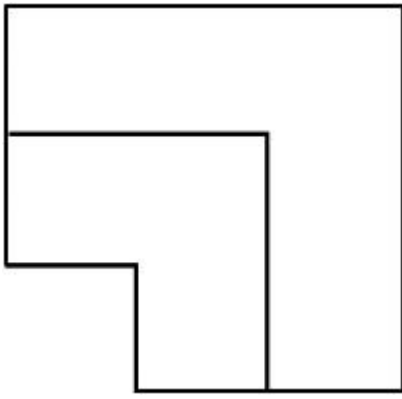
**Correct Marks : 4 Wrong Marks : 1**

दिये गये विकल्पों में से 3-D दृश्य का ऊपरी दृश्य चुनें।



Options :



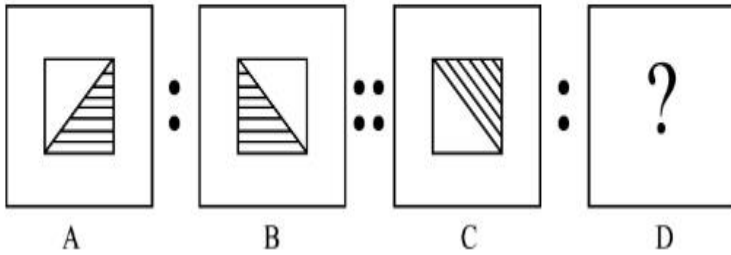


7155058636.

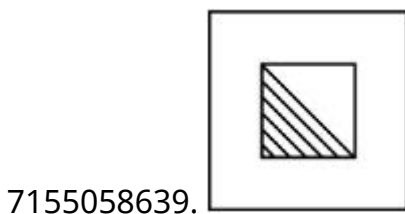
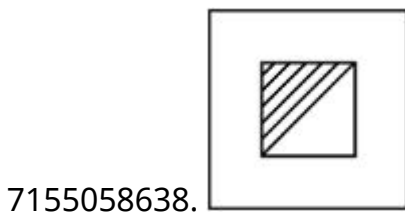
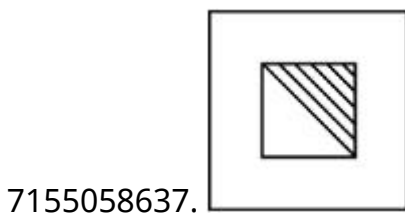
**Question Number : 75 Question Id : 7155052725 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

The 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 :**





7155058640.



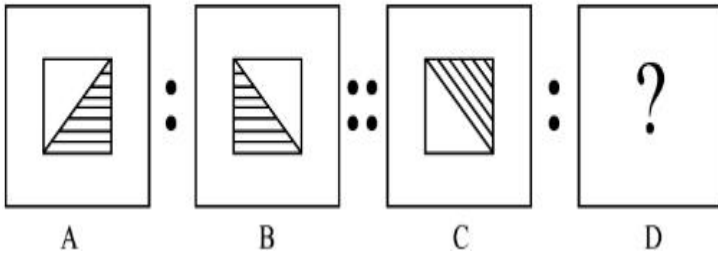
Question Number : 75 Question Id : 7155052725 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

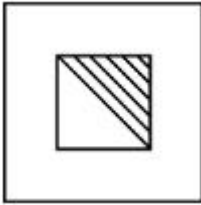
Correct Marks : 4 Wrong Marks : 1

प्रश्न में दिया गया दूसरा चित्र पहले चित्र से किसी प्रकार सम्बन्धित है। उसी प्रकार दूसरे भाग में सम्बन्ध दिखाता हुआ सही विकल्प चुनें।

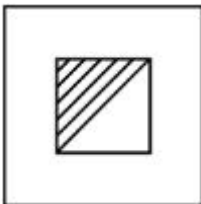


Options :

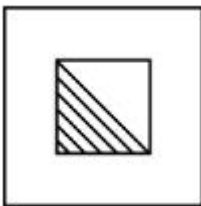
7155058637.



7155058638.



7155058639.



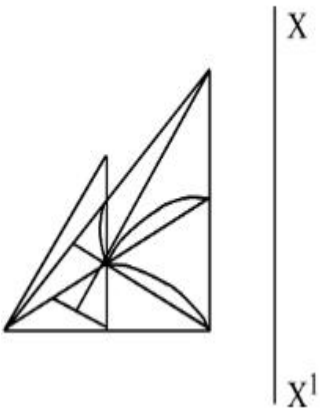
7155058640.



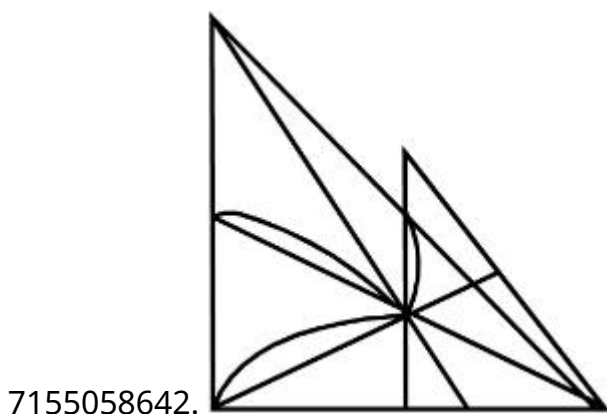
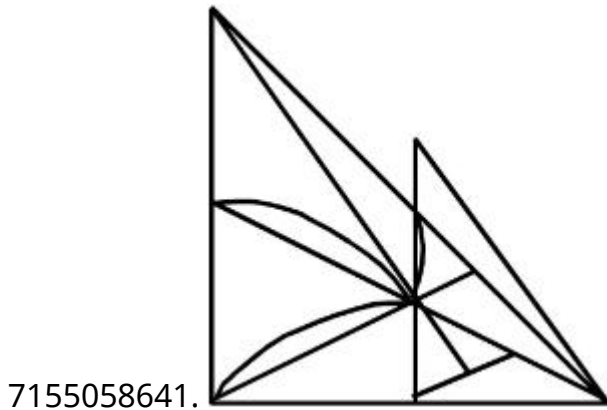
Question Number : 76 Question Id : 7155052726 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

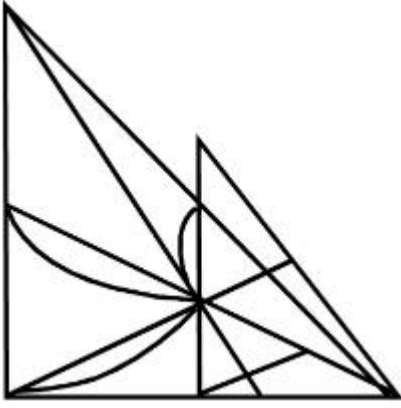
Identify the true mirror image of the figure amongst the answer figures with respect to X-X



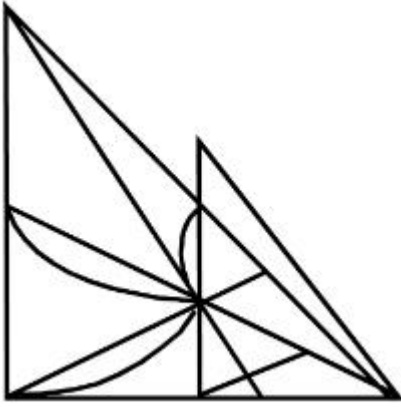
Options :



7155058643.



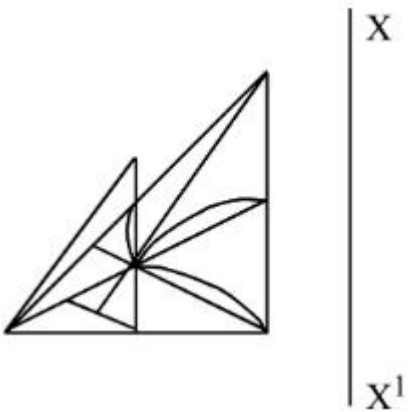
7155058644.



Question Number : 76 Question Id : 7155052726 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

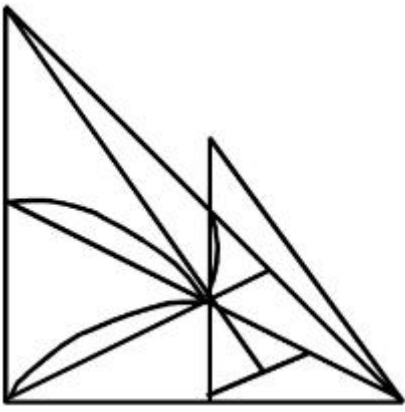
Correct Marks : 4 Wrong Marks : 1

X-X के आधार पर दिये गये चित्र का दर्पण प्रतिबिम्ब ज्ञात करें।

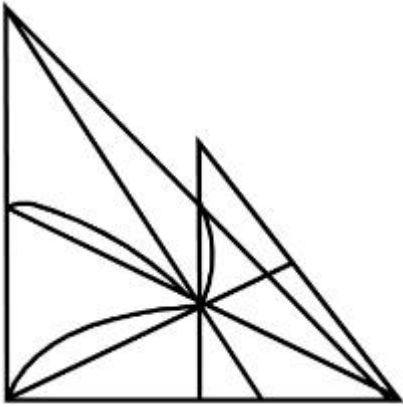


Options :

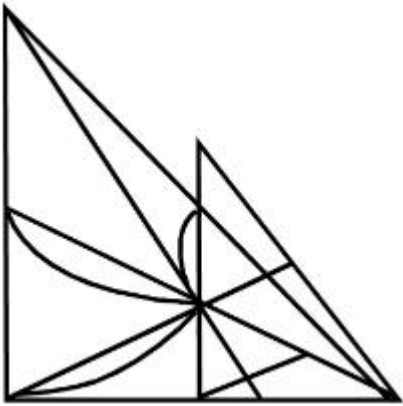
7155058641.



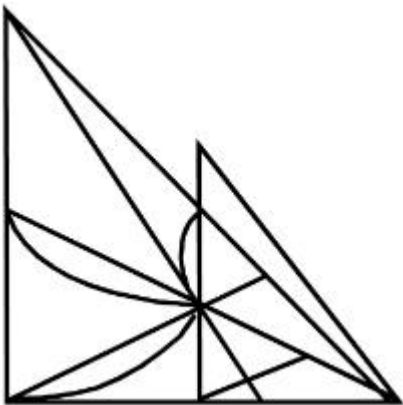
7155058642.



7155058643.



7155058644.

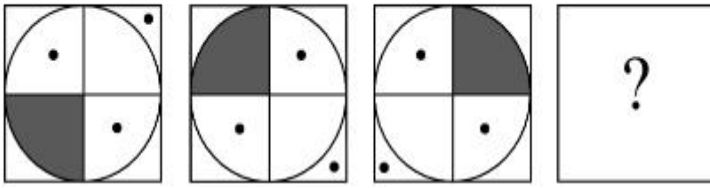


Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

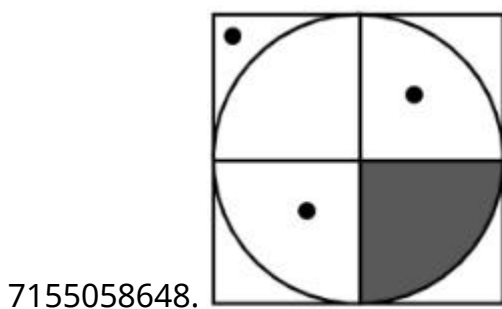
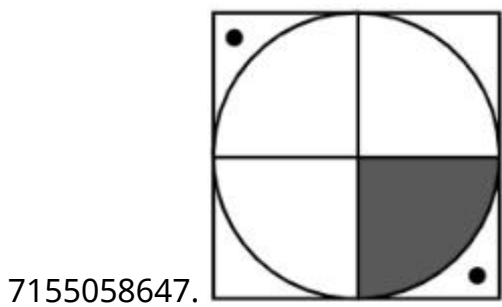
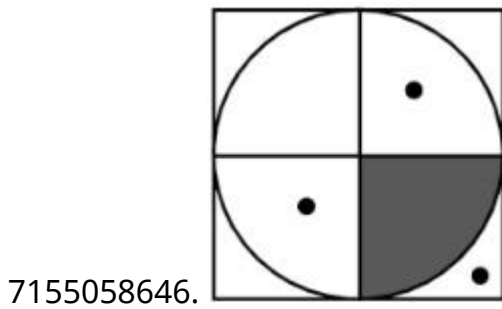
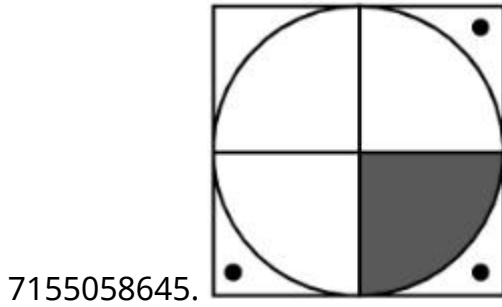
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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



Options :



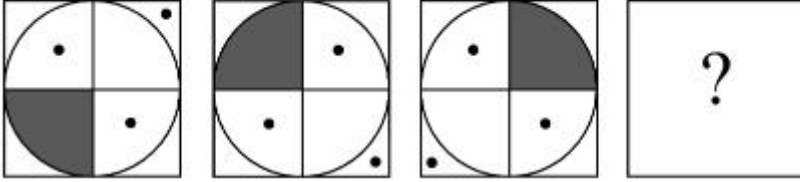
Question Number : 77 Question Id : 7155052727 Question Type : MCQ Option Shuffling : Yes Is

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

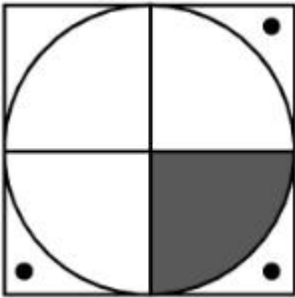
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

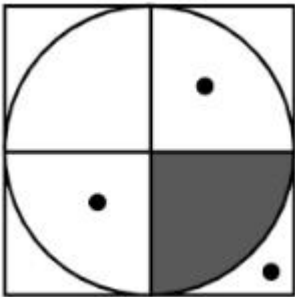
दिये गये विकल्पों में श्रृंखला को पूरा करने वाला विकल्प चुनें।



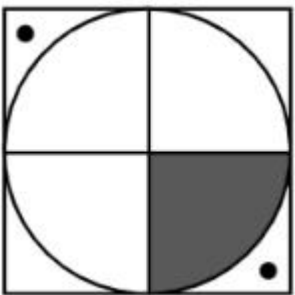
Options :



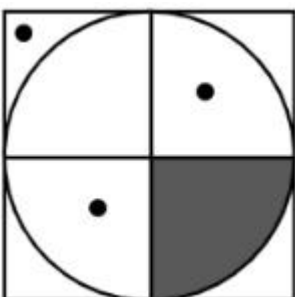
7155058645.



7155058646.



7155058647.

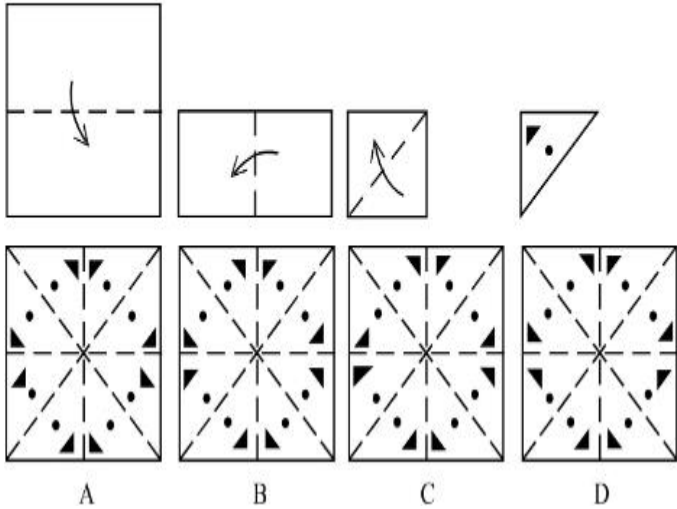


7155058648.

**Question Number : 78 Question Id : 7155052728 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 :**

7155058649. B

7155058650. A

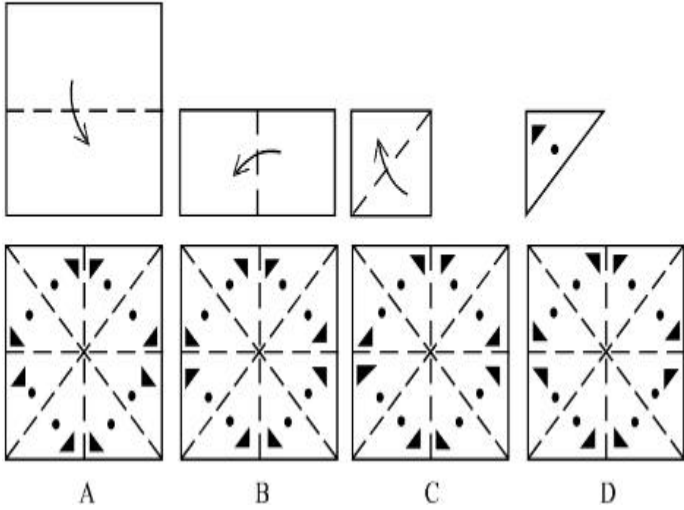
7155058651. D

7155058652. C

**Question Number : 78 Question Id : 7155052728 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**

पेपर को दी गई श्रृंखला में मोड़ा जाता है एवं उसे दिये गये चित्र की तरह काट दिया जाता है। पेपर खोलने पर कैसा दिखेगा दिये गये विकल्पों में चुनें।



**Options :**

7155058649. **B**

7155058650. **A**

7155058651. **D**

7155058652. **C**

**Question Number : 79 Question Id : 7155052729 Question Type : MCQ Option Shuffling : Yes Is**

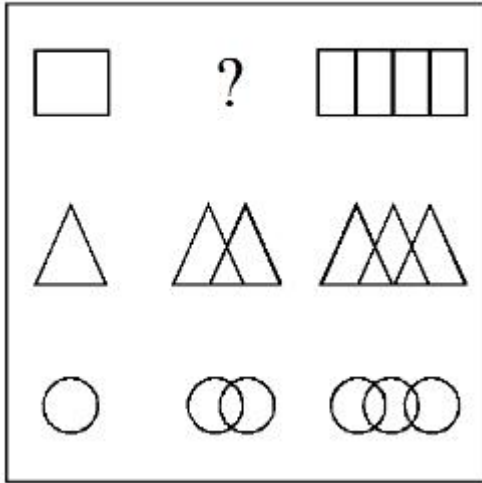
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

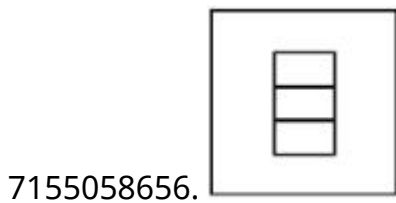
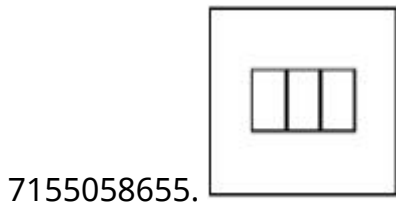
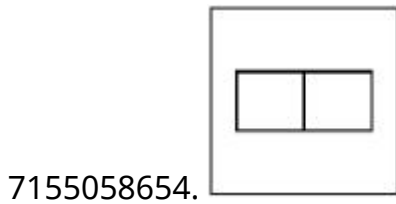
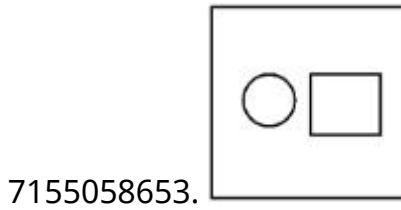
**Correct Marks : 4 Wrong Marks : 1**



In the figure mentioned below find the missing series:-

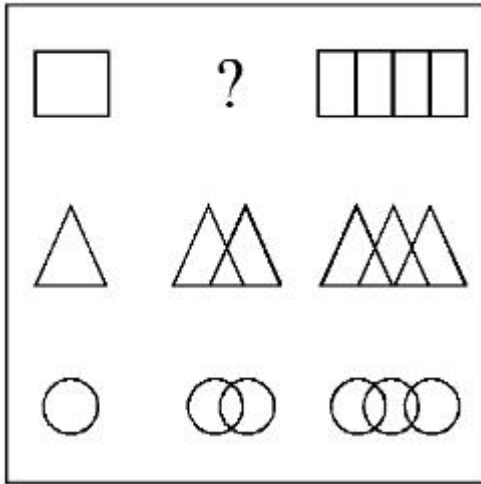


Options :

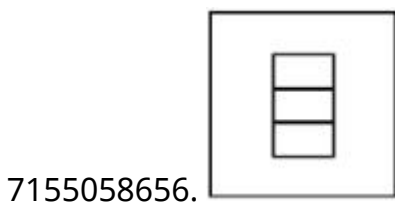
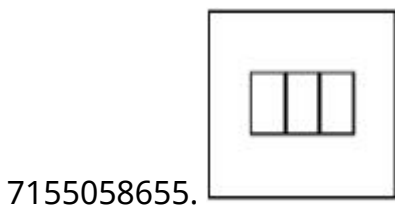
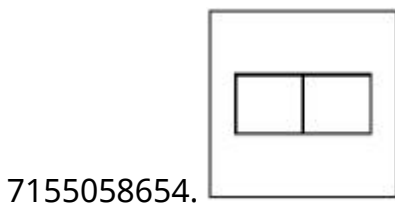
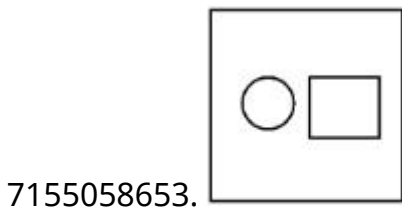


Question Number : 79 Question Id : 7155052729 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

प्रश्न में दिये गये खोये हुये श्रृंखला को, विकल्पों में से चुनें।

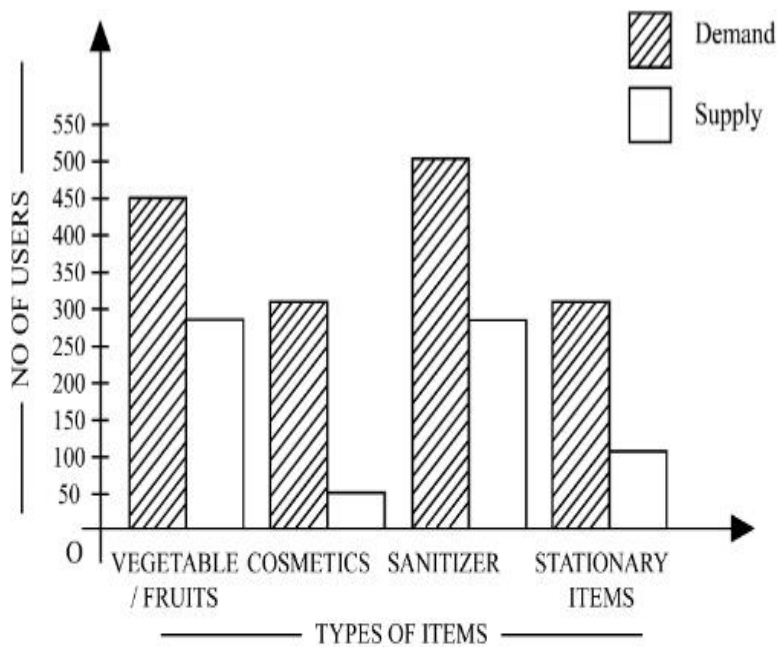


Options :



Question Number : 80 Question Id : 7155052730 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 :**

7155058657. B and D only

7155058658. A and B only

7155058659. A and C only

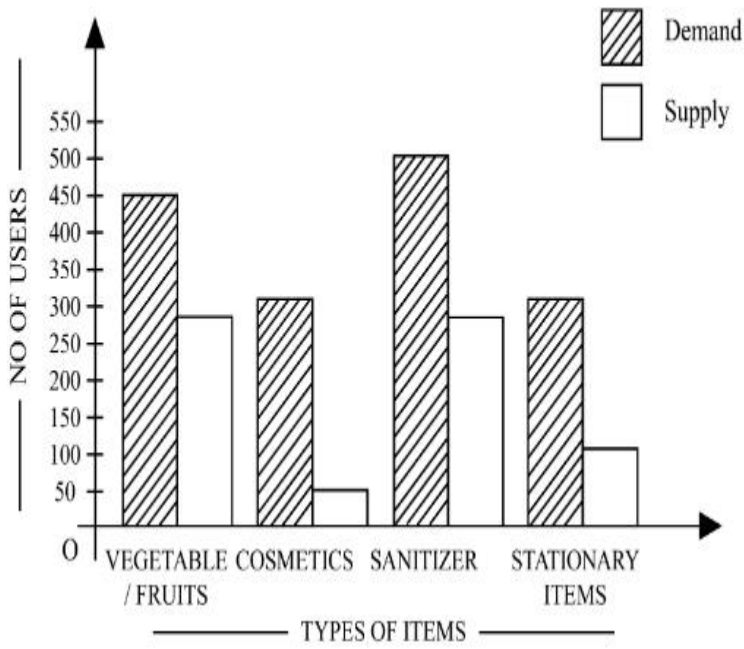
7155058660. B, C and D only

**Question Number : 80 Question Id : 7155052730 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**



दिया गया चित्र अलग-अलग वस्तुओं की अलग अलग उपभोक्ताओं के लिये माँग एवं आपूर्ति दर्शाता है। निम्न में कौन सा सही है?

- A. सेनिटाइजर केवल 50% माँग पूर्ति करता है।
- B. कॉस्मेटिक्स सबसे कम आपूर्ति है।
- C. सब में, दो वस्तुओं की एक ही माँग है परन्तु आपूर्ति अलग अलग है।
- D. सब में दो वस्तुओं की बराबर आपूर्ति है एवं दो की बराबर माँग है।

सही विकल्प चुनें।

**Options :**

7155058657. B एवं D केवल

7155058658. A एवं B केवल

7155058659. A एवं C केवल

7155058660. B, C एवं D केवल

## Planning

**Section Id :**

715505166

**Section Number :**

4

<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	25
<b>Number of Questions to be attempted :</b>	25
<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>	715505166
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 81 Question Id : 7155052731 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**

When a person cannot meet a minimum level of living standards compared to others in the same time and place, it is called :

**Options :**

7155058661. Poverty

7155058662. Abundance

7155058663. Adequacy

7155058664. Luxury

**Question Number : 81 Question Id : 7155052731 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**

जब कोई व्यक्ति एक ही समय एवं स्थान में दूसरो की तुलना में जीवन स्तर के न्यूनतम स्तर को पूरा नहीं कर पाता है। उसे कहते है:

**Options :**

7155058661. गरीबी

7155058662. प्रचुरता

7155058663. प्रयत्तिता

7155058664. विलासिता

**Question Number : 82 Question Id : 7155052732 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**

Acropolis in Greece is a/an:

**Options :**

7155058665. Court

7155058666. Citadel on a High Land

7155058667. Open Air Theatre

7155058668. Great Bath

**Question Number : 82 Question Id : 7155052732 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**

ग्रीस में ऐक्रोपोलीस क्या है?

**Options :**

7155058665. न्यायालय

7155058666. ऊँचाई पर बना किला

7155058667. खुली रंगशाला

7155058668. ग्रेट बाथ

**Question Number : 83 Question Id : 7155052733 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 Land-use map, identify the colour code used for recreational uses.

**Options :**

7155058669. Yellow

7155058670. Green

7155058671. Purple

7155058672. Blue

**Question Number : 83 Question Id : 7155052733 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**

भूमि उपयोग नकशे में, मनोरंजक भूमि के लिये उपयोग किया जाने वाला रंग पहचानिए-

**Options :**

7155058669. पीला

7155058670. हरा

7155058671. बैंगनी

7155058672. नीला

**Question Number : 84 Question Id : 7155052734 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**

**Statement I :** The plan of Delhi city is in the radial form.

**Statement II :** The plan of Delhi city is in the Grid Iron form.

In the light of the above statements, choose the *correct* answer from the options given below:

**Options :**

7155058673. Both Statement **I** and Statement **II** are true

7155058674. Both Statement **I** and Statement **II** are false

7155058675. Statement **I** is true but Statement **II** is false

7155058676. Statement **I** is false but Statement **II** is true

**Question Number : 84 Question Id : 7155052734 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**



**वाक्य I :** शहर दिल्ली का नक्शा रेडियल है।

**वाक्य II :** शहर दिल्ली का नक्शा ग्रिड आयरन है।

ऊपर दिये गये वाक्यों के अनुसार, नीचे दिये गये विकल्पों में से सही विकल्प चुनिए:

**Options :**

7155058673. दोनों वाक्य, **I** और **II** सत्य हैं।

7155058674. दोनों वाक्य **I** और वाक्य **II** असत्य हैं।

7155058675. वाक्य **I** सत्य है लेकिन वाक्य **II** असत्य है।

7155058676. वाक्य **I** असत्य है लेकिन वाक्य **II** सत्य है।

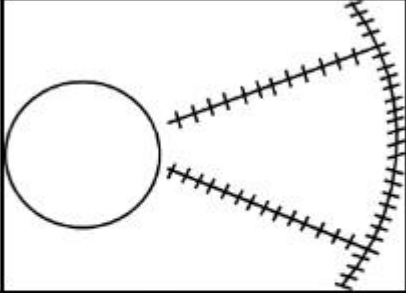
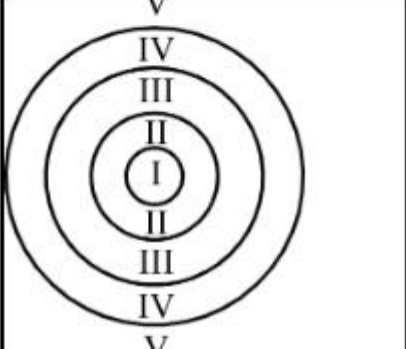
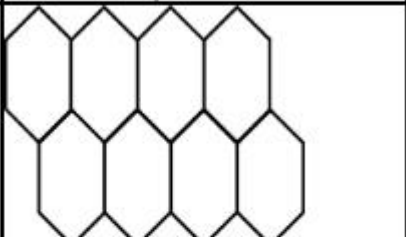
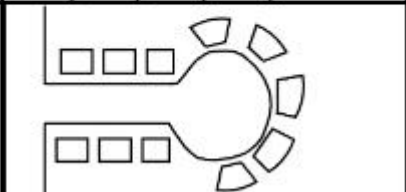
**Question Number : 85 Question Id : 7155052735 Question Type : MCQ Option Shuffling : Yes Is**

**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.	Christaller's concept
B.		II.	Garden City concept
C.		III.	Ernest Burgess
D.		IV.	Radburn concept

Choose the correct answer from the options given below:

**Options :**

7155058677. A-II, B-III, C-I, D-IV

7155058678. A-III, B-I, C-II, D-IV

7155058679. A-IV, B-III, C-I, D-II

7155058680. A-II, B-III, C-IV, D-I

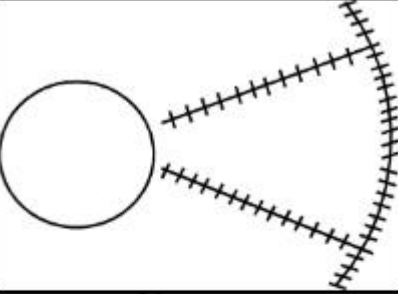
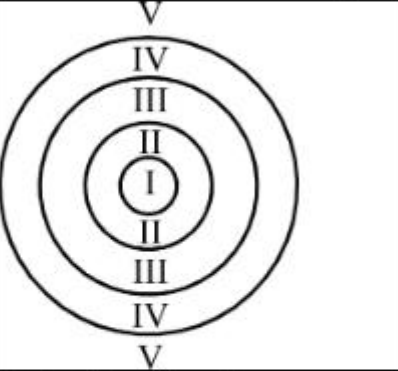
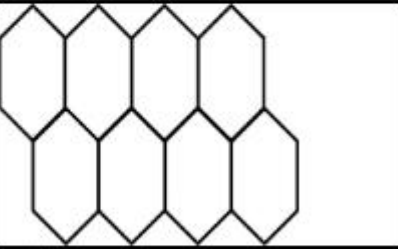
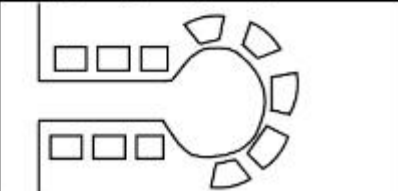
Question Number : 85 Question Id : 7155052735 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I एवं सूची II मिलायें-

LIST I		LIST II	
A.		I.	Christaller's concept
B.		II.	Garden City concept
C.		III.	Ernest Burgess
D.		IV.	Radburn concept

नीचे दिये गये विकल्पों में सही विकल्प चुनें:

Options :

7155058677. A-II, B-III, C-I, D-IV

7155058678. A-III, B-I, C-II, D-IV

7155058679. A-IV, B-III, C-I, D-II

7155058680. A-II, B-III, C-IV, D-I

Question Number : 86 Question Id : 7155052736 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.	Tower in the Park	I.	Sir Ebenezer Howards
B.	Neighbourhood Unit	II.	Le-Corbusier
C.	Garden City	III.	Clerence Perry
D.	Sector Model	IV.	Homer Hoyt

Choose the correct answer from the options given below:

Options :

7155058681. A-I, B-III, C-IV, D-II

7155058682. A-II, B-III, C-I, D-IV

7155058683. A-II, B-III, C-IV, D-I

7155058684. A-III, B-II, C-I, D-IV

Question Number : 86 Question Id : 7155052736 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

सूची I को सूची II से मिलायें -

सूची I		सूची II	
A.	टावर इन द पार्क	I.	सर एबेनजर हॉवर्ड
B.	नेबरहुड यूनिट	II.	ली-कॉर्बुज़ियर
C.	गार्डन सिटी	III.	क्लीरेन्स पेरी
D.	सेक्टर मॉडल	IV.	होमर

नीचे दिये गये विकल्पों में से सही विकल्प चुनें:

**Options :**

7155058681. A-I, B-III, C-IV, D-II

7155058682. A-II, B-III, C-I, D-IV

7155058683. A-II, B-III, C-IV, D-I

7155058684. A-III, B-II, C-I, D-IV

**Question Number : 87 Question Id : 7155052737 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.	1st Five Year Plan	I.	1969-1974
B.	4th Five Year Plan	II.	1951-1956
C.	8th Five Year Plan	III.	1992-1997
D.	11th Five Year Plan	IV.	2007-2012

Choose the correct answer from the options given below:

**Options :**

7155058685. A-I, B-II, C-III, D-IV

7155058686. A-II, B-I, C-III, D-IV

7155058687. A-II, B-III, C-IV, D-I

7155058688. A-II, B-I, C-IV, D-III

**Question Number : 87 Question Id : 7155052737 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**

सूची I को सूची II से मिलाइये

सूची I		सूची II	
A.	प्रथम पंच वर्षीय योजना	I.	1969-1974
B.	चौथा पंच वर्षीय योजना	II.	1951-1956
C.	आठवा पंच वर्षीय योजना	III.	1992-1997
D.	ग्यारहवां पंच वर्षीय	IV.	2007-2012

नीचे दिये गये विकल्पों में से सही विकल्प चुनें:

**Options :**

7155058685. A-I, B-II, C-III, D-IV

7155058686. A-II, B-I, C-III, D-IV

7155058687. A-II, B-III, C-IV, D-I

7155058688. A-II, B-I, C-IV, D-III

**Question Number : 88 Question Id : 7155052738 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.	Madurai	I.	Planned Hill city
B.	Aurovile	II.	Kadamba Vanam
C.	Lavasa	III.	Grid Iron
D.	Chandigarh	IV.	Matri Mandir

Choose the correct answer from the options given below:

**Options :**

7155058689. A-IV, B-I, C-II, D-III

7155058690. A-IV, B-II, C-I, D-III

7155058691. A-I, B-II, C-IV, D-III

7155058692. A-II, B-IV, C-I, D-III

**Question Number : 88 Question Id : 7155052738 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**

सूची I को सूची II से मिलाइये

सूची I		सूची II	
A.	मधुरई	I.	नियोजित पहाड़ी शहर
B.	ओरोविल	II.	कदम्बा वनम
C.	लवासा	III.	ग्रिड आयरन
D.	चण्डीगढ़	IV.	मैत्री मन्दिर

नीचे दिये विकल्पों में सही विकल्प चुनें:

**Options :**

7155058689. A-IV, B-I, C-II, D-III

7155058690. A-IV, B-II, C-I, D-III

7155058691. A-I, B-II, C-IV, D-III

7155058692. A-II, B-IV, C-I, D-III

**Question Number : 89 Question Id : 7155052739 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 article is related to Panchayati Raj ?

**Options :**

7155058693. Article 243

7155058694. Article 324

7155058695. Article 124

7155058696. Article 73

**Question Number : 89 Question Id : 7155052739 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**

नीचे दिये गये अनुच्छेदों में से कौन पंचायती राज से संबन्धित है-

**Options :**

7155058693. अनुच्छेद 243

7155058694. अनुच्छेद 324

7155058695. अनुच्छेद 124

7155058696. अनुच्छेद 73

**Question Number : 90 Question Id : 7155052740 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 acres is 1 hectare?



**Options :**

7155058697. 2.47

7155058698. 3.47

7155058699. 4.47

7155058700. 5.47

**Question Number : 90 Question Id : 7155052740 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 हेक्टेयर में कितने एकड़ होते हैं?

**Options :**

7155058697. 2.47

7155058698. 3.47

7155058699. 4.47

7155058700. 5.47

**Question Number : 91 Question Id : 7155052741 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**

What is the full form of the NITI ?

**Options :**

7155058701. National Institute for Transforming India

7155058702. National Industry for Technology India

7155058703. National Industry for Transforming India

7155058704. National Industrial Technical Institute

**Question Number : 91 Question Id : 7155052741 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**

NITI का पूर्ण रूप क्या है?

**Options :**

7155058701. नेशनल इंस्टिट्यूट फॉर ट्रांसफॉर्मिंग इंडिया

7155058702. नेशनल इनडस्ट्री फॉर टेक्नोलॉजी इंडिया

7155058703. नेशनल इनडस्ट्री फॉर ट्रांसफॉर्मिंग इंडिया

7155058704. नेशनल इन्डस्ट्रियल टेक्निकल इंस्टिट्यूट

**Question Number : 92 Question Id : 7155052742 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 term "Conurbation" was coined by ?

**Options :**

7155058705. Kevin Lynch

7155058706. Patrick Geddes

7155058707. Ebenezer Howard

7155058708. Lewis Mumford

**Question Number : 92 Question Id : 7155052742 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**

द टर्म "Conurbation" किसके द्वारा गया था?

**Options :**

7155058705. केविन लिंग

7155058706. पैट्रिक गेड्स

7155058707. ऐबेनज़र हॉवर्ड

7155058708. लुईस ममफॉर्ड

**Question Number : 93 Question Id : 7155052743 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 planner of Durgapur city?

**Options :**

7155058709. Le Corbusier

7155058710. Ebenezer Howard

7155058711. Joseph Allen Stein

7155058712. Charles Correa

**Question Number : 93 Question Id : 7155052743 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**

दुर्गापुर शहर का नियोजक कौन है?

**Options :**

7155058709. ली- कॉर्बीज़ियर

7155058710. रोबेनज़र हॉवर्ड

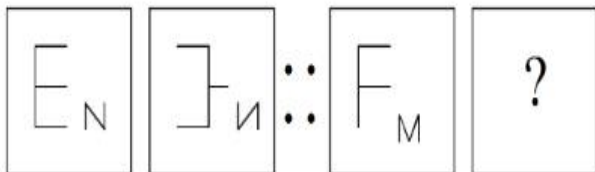
7155058711. जोसेफ एलिन स्टीन

7155058712. चार्ल्स कोरिया

**Question Number : 94 Question Id : 7155052744 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

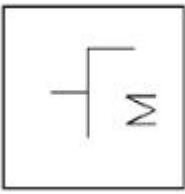
**Correct Marks : 4 Wrong Marks : 1**

In problem figures, A and B have certain relation. Identify which one of the answer figures will have similar relation between C and D?

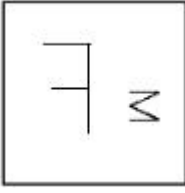


**Options :**

7155058713.



7155058714.



7155058715.



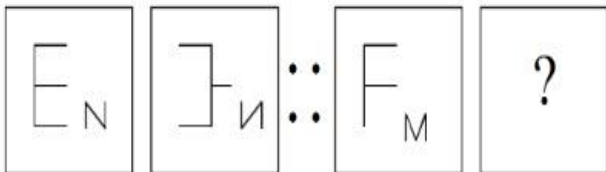
7155058716.



**Question Number : 94 Question Id : 7155052744 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

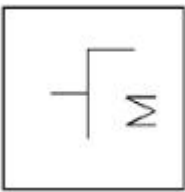
**Correct Marks : 4 Wrong Marks : 1**

समस्या चित्र में, A और B के बीच में एक सम्बन्ध है। दिये गये उत्तर विकल्पों में स एवं D के बीच समान सम्बन्ध चुनिये-

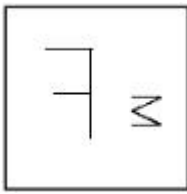


**Options :**

7155058713.



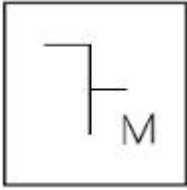
7155058714.



7155058715.



7155058716.



**Question Number : 95 Question Id : 7155052745 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 Housing Development Finance Corporation Limited (HDFC) was founded in:

**Options :**

7155058717. 1947

7155058718. 1961

7155058719. 1977

7155058720. 1981

**Question Number : 95 Question Id : 7155052745 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**

द हाउजिंग डवलपमेंट फाइनेंट कॉरपोरेशन लिमिटेड (एच डी एफ सी) किस वर्ष में स्थापित हुआ?

**Options :**

7155058717. 1947

7155058718. 1961

7155058719. 1977

7155058720. 1981

**Question Number : 96 Question Id : 7155052746 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**

An essential feature of federal government is:

**Options :**

7155058721. Centralisation of Powers

7155058722. Division of Powers between various levels

7155058723. Opposition

7155058724. Unwritten Constitution

**Question Number : 96 Question Id : 7155052746 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**

संघीय सरकार (फ़ेडरल गवर्नमेंट) की विशेषता है-

**Options :**

7155058721. सत्ता को केन्द्रीकरण

7155058722. विभिन्न स्तरों के बीच शक्ति विभाजन

7155058723. विरोध

7155058724. अलिखित संविधान

**Question Number : 97 Question Id : 7155052747 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 is not a public sector bank?

**Options :**

7155058725. ICICI

7155058726. State Bank of India

7155058727. Indian Bank

7155058728. Canara Bank

**Question Number : 97 Question Id : 7155052747 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**

नीचे दिये गये विकल्पों में कौन सार्वजनिक क्षेत्र बैंक (पब्लिक सेक्टर बैंक) नहीं है?

**Options :**



7155058725. आई सी आई सी आई

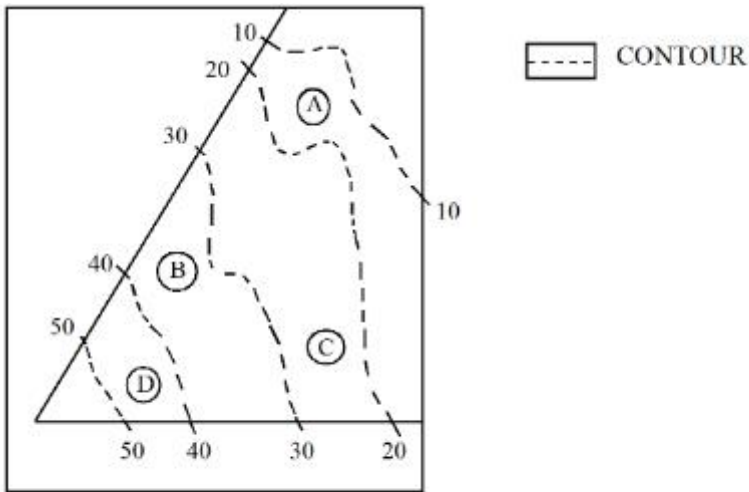
7155058726. स्टेट बैंक ऑफ इंडिया

7155058727. इण्डियन बैंक

7155058728. कैनरा बैंक

**Question Number : 98 Question Id : 7155052748 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 given diagram, the location of D on the site is:

**Options :**

7155058729. 30-40

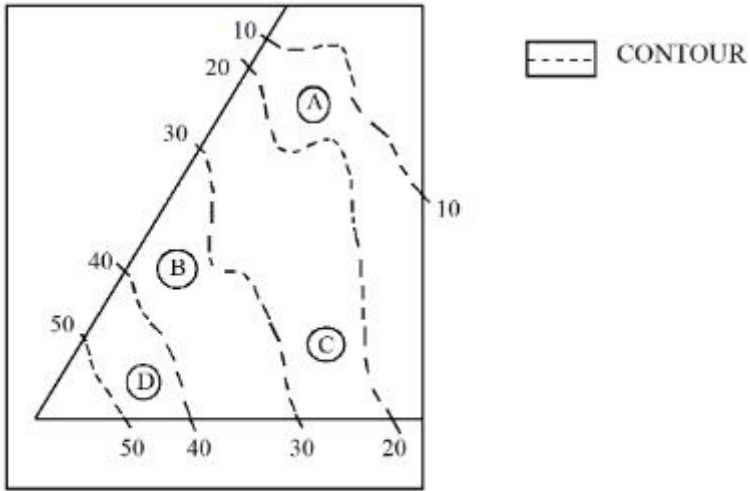
7155058730. 40-50

7155058731. 10-20

7155058732. 20-30

Question Number : 98 Question Id : 7155052748 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



दिये गये चित्र में, D का स्थान क्या है?

Options :

7155058729. 30-40

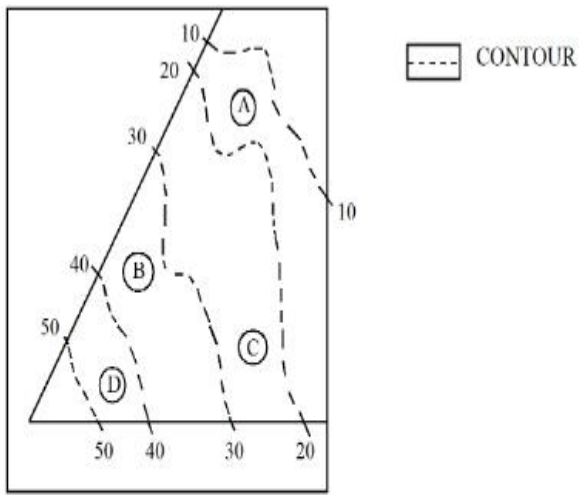
7155058730. 40-50

7155058731. 10-20

7155058732. 20-30

Question Number : 99 Question Id : 7155052749 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



**Statement I:** In the given diagram, the location of B is higher than C

**Statement II:** In the given diagram, the location of A is lower than C

In the light of the above statements, choose the *correct* answer from the options given below:

**Options :**

7155058733. Both Statement **I** and Statement **II** are true

7155058734. Both Statement **I** and Statement **II** are false

7155058735. Statement **I** is true but Statement **II** is false

7155058736. Statement **I** is false but Statement **II** is true

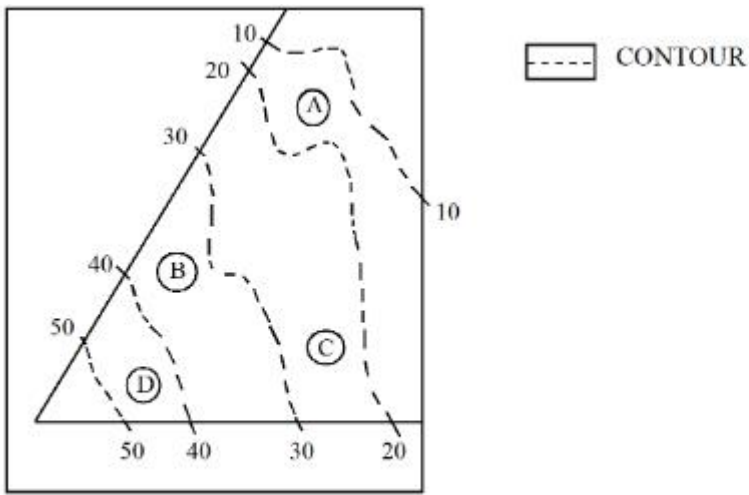
**Question Number : 99 Question Id : 7155052749 Question Type : MCQ Option Shuffling : Yes Is**

**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 given diagram, the location of the A lies on which contour ?

**Options :**

7155058737. 20-30

7155058738. 30-40

7155058739. 10-20

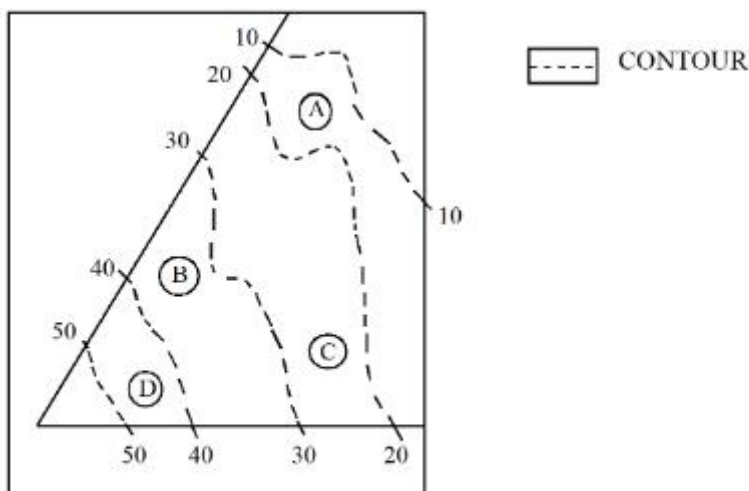
7155058740. 40-50

**Question Number : 100 Question Id : 7155052750 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**



दिये गये चित्र में, A का स्थान कौन से समोच्च (कोंटूर) पर है?

**Options :**

7155058737. 20-30

7155058738. 30-40

7155058739. 10-20

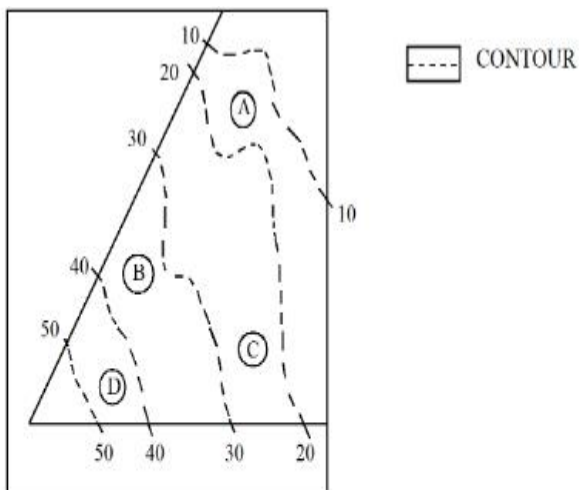
7155058740. 40-50

**Question Number : 101 Question Id : 7155052751 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**



**Statement I:** 'A' is located at the lowest point of the site.

**Statement II:** 'A' is located at a lower point than 'B' on the site.

In the light of the above statements, choose the *correct* answer from the options given below:

**Options :**

7155058741. Both Statement **I** and Statement **II** are true

7155058742. Both Statement **I** and Statement **II** are false

7155058743. Statement **I** is true but Statement **II** is false

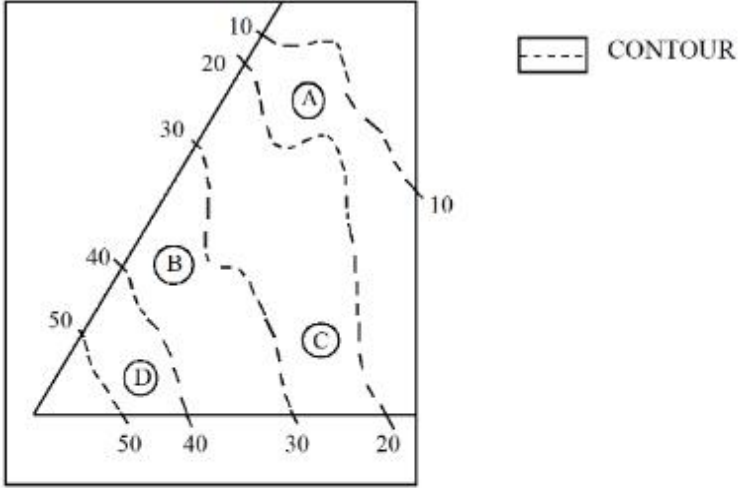
7155058744. Statement **I** is false but Statement **II** is true

Question Number : 101 Question Id : 7155052751 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



कथन **I**: 'A' साइट के सबसे निचले बिंदु पर है।

कथन **II**: 'A' साइट पर 'B' से भी नीचे स्थित है।

ऊपर दिये गये कथन के अनुसार, नीचे दिये गये विकल्पों में सही विकल्प चुनिए।

Options :

7155058741. दोनों कथन **I** एवं कथन **II** सत्य है।

7155058742. दोनों कथन **I** एवं कथन **II** असत्य है।

7155058743. कथन **I** सत्य है। परन्तु कथन **II** असत्य है।

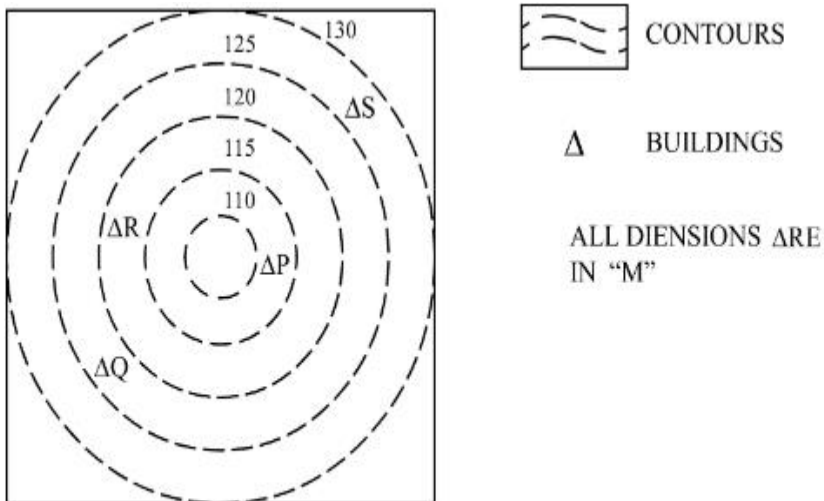
7155058744. कथन **I** असत्य है परन्तु कथन **II** सत्य है।

Question Number : 102 Question Id : 7155052752 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 given diagram, how many contour levels are present in between "P" and "S"

**Options :**

7155058745. 2

7155058746. 3

7155058747. 1

7155058748. 4

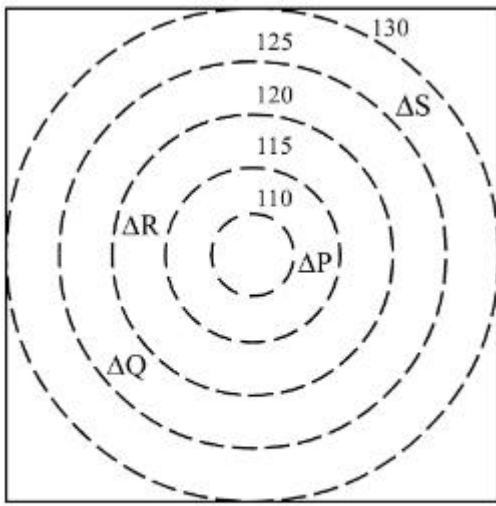
**Question Number : 102 Question Id : 7155052752 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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





CONTOURS



BUILDINGS

ALL DIENSIONS ARE  
IN "M"

दिये गये चित्र में, "P" और "S" के बीच में कितने समोघ स्तर है?

**Options :**

7155058745. 2

7155058746. 3

7155058747. 1

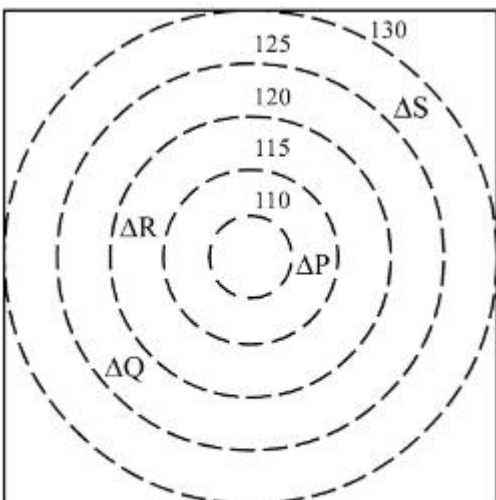
7155058748. 4

**Question Number : 103 Question Id : 7155052753 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**



CONTOURS



BUILDINGS

ALL DIENSIONS ARE  
IN "M"

In the given diagram, "S" is higher than \_\_\_\_\_ meter from "R"

**Options :**

7155058749. 5

7155058750. 10

7155058751. 25

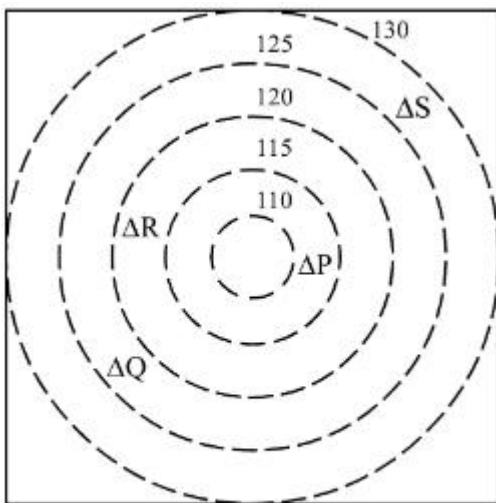
7155058752. 15


**Question Number : 103 Question Id : 7155052753 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**



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

दिये गये चित्र में, "S" \_\_\_\_\_ मीटर, R से ऊँचा है?

**Options :**

7155058749. 5

7155058750. 10

7155058751. 25

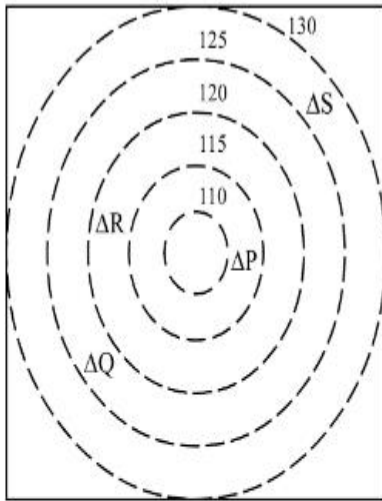
7155058752. 15

Question Number : 104 Question Id : 7155052754 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



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

Based on the given diagram:

**Statement I** : "R" is higher than "P" and "Q"

**Statement II** : "S" is higher than "P", "Q" and "R"

In the light of the above statements, choose the *correct* answer from the options given below:

**Options :**

7155058753. Both Statement **I** and Statement **II** are true

7155058754. Both Statement **I** and Statement **II** are false

7155058755. Statement **I** is true but Statement **II** is false

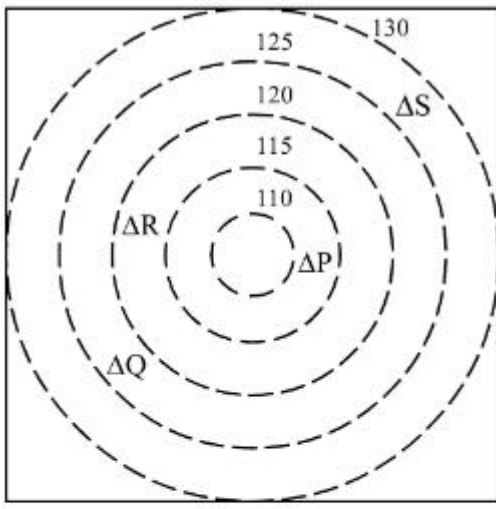
7155058756. Statement **I** is false but Statement **II** is true

Question Number : 104 Question Id : 7155052754 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



CONTOURS



BUILDINGS

ALL DIENSIONS ARE  
IN "M"

दिये गये चित्र के आधार पर:

**कथन I :** बिंदु "R", "P" व "Q" से ऊँचा है।

**कथन II :** बिंदु "S", "P", "Q" व "R" से ऊँचा है।

ऊपर दिये गये कथनों के आधार पर सही विकल्प चुनें।

**Options :**

7155058753. दोनों कथन I एवं कथन II सत्य है।

7155058754. दोनों कथन I एवं कथन II असत्य है।

7155058755. कथन I सत्य है एवं कथन II असत्य है।

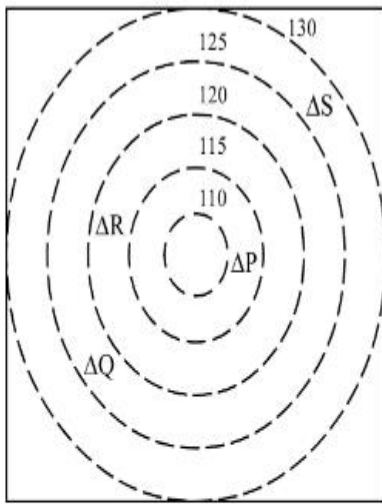
7155058756. कथन I असत्य है एवं कथन II सत्य है।

**Question Number : 105 Question Id : 7155052755 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**



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

Based on the given diagram:

**Statement I :** "P" is located at a height of 110 M

**Statement II :** "Q" is located 5 M lower than "S"

In the light of the above statements, choose the *correct* answer from the options given below:

**Options :**

7155058757. Both Statement **I** and Statement **II** are true

7155058758. Both Statement **I** and Statement **II** are false

7155058759. Statement **I** is true but Statement **II** is false

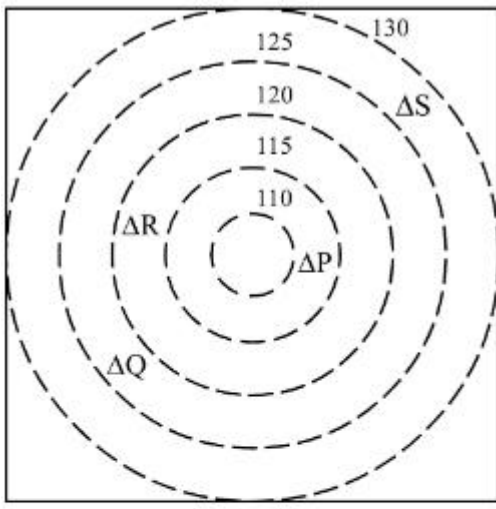
7155058760. Statement **I** is false but Statement **II** is true

**Question Number : 105 Question Id : 7155052755 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**



CONTOURS



BUILDINGS

ALL DIENSIONS ARE  
IN "M"

दिये गये चित्र के आधार पर:

**कथन I :** "P", 110 M की ऊँचाई पर स्थित है।

**कथन II :** "Q", "S" से 5 M की नीचाई पर स्थित है।

ऊपर दिये गये कथनों के आधार पर सही विकल्प चुने-

**Options :**

7155058757. दोनों कथन I एवं कथन II सत्य है।

7155058758. दोनों कथन I एवं कथन II असत्य है।

7155058759. कथन I असत्य है एवं कथन II सत्य है।

7155058760. कथन I असत्य है एवं कथन II सत्य है।

## Drawing

<b>Section Id :</b>	715505167
<b>Section Number :</b>	5
<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>	715505167
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 106 Question Id : 7155052756 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 : 106 Question Id : 7155052756 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 50**

दिये गये संदर्भ प्रतिमा के सट्टे रेखाचित्र बनाएं। अपने पसंद के श्वेत कृष्ण प्रस्तुतीकरण के तंत्र का उपयोग कीजिए।



**Question Number : 107 Question Id : 7155052757 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 : 107 Question Id : 7155052757 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**



**Time : 0**

**Correct Marks : 50**

मोटर साइकिल में मिलने वाले 2D आकारों का प्रयोग करके अपनी पसंद की 2D रचना का निर्माण कीजिए, अपनी पसंद के किन्हीं तीन रंगों का उपयोग करके उसे रंग दीजिए।