# National Testing Agency

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

## B ARCH

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

## Mathematics Section A

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| **Section Id :** | 715505159 |
| **Section Number :** | 1 |

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

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

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

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

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

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

**Options :**

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

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

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

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

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

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

ମନେକର $R_1$ ଏବଂ $R_2$, $\mathbb{R}^2$ ଉପରେ ଦୁଇଟି ସମ୍ପର୍କ ଯାହାର ସଂଜ୍ଞା ଏହିପରି ।

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

$(a, b)\ R_2\ (c, d)$ ଯଦି $a + d \geq b + c$ . ତେବେ :

**Options :**

7155058081. $R_1$ ସଂକ୍ରମକ ଅଟେ କିନ୍ତୁ $R_2$ ସଂକ୍ରମକ ନୁହେଁ ।

7155058082. $R_2$ ସଂକ୍ରମକ ଅଟେ କିନ୍ତୁ $R_1$ ସଂକ୍ରମକ ନୁହେଁ ।

7155058083. ଉଭୟ $R_1$ ଏବଂ $R_2$ ସଂକ୍ରମକ ।

7155058084. $R_1, R_2$ ମଧ୍ୟରୁ କୌଣସି ସଂକ୍ରମକ ନୁହେଁ ।

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

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

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

**Options :**

7155058085. $1$

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

7155058087. $3$

7155058088. 9

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

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

ମନେକର ସମୀକରଣ $x^2 - 3x + 9 = 0$ ର $\alpha$ ଏବଂ $\beta$ ଦୁଇଟି ମୂଳ । ତେବେ $\left(\frac{\beta^{30}}{(9\alpha)^{10}} + \frac{\alpha^{30}}{(9\beta)^{10}}\right)^2$ ସମାନ :

**Options :**

7155058085. 1

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

7155058087. 3

7155058088. 9

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

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

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

**Options :**

7155058089. 1153

7155058090. 947

7155058091. 537

7155058092. 837

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

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

$z = 2 + 5i$, ପାଇଁ $2z^3 + 21z^2 - 58z + 4$ ର ପରମମାନ ଅଟେ :

**Options :**

7155058089. 1153

7155058090. 947

7155058091. 537

7155058092. 837

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

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

If the system of equations

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

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

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

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

**Options :**

7155058093. 27

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

7155058095. $9$

7155058096. $3$

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

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

ଯଦି ସମୀକରଣ

$$Kx-\sqrt{2}y+\sqrt{5}z=\sqrt{7}$$
$$\sqrt{5}x+\sqrt{3}y-\sqrt{2}z=\sqrt{11}$$
$$30x+(3\sqrt{15}-5\sqrt{6})y+(5\sqrt{15}-3\sqrt{10})z=5\sqrt{21}+3\sqrt{55}$$

ସମୂହ ମାନଙ୍କର ଅସଂଖ୍ୟ ସମାଧାନ ଅଛି, ତେବେ $K^2$ ଅଟେ :

**Options :**

7155058093. $27$

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

7155058095. $9$

7155058096. $3$

**Question Number : 5 Question Id : 7155052573 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

For $\alpha, \beta \in \mathbb{R}$, if the matrices $A = \begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}$, $B = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$ and $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ satisfy the equation $(A*B)*2I = 20I$, where $*$ is defined as $A*B = A^2 + B^2$, then $|\alpha\beta|$ is equal to :

**Options :**

7155058097. $2\sqrt{3}$

7155058098. $2\sqrt{2}$

7155058099. $4$

7155058100. $2$

**Question Number : 5 Question Id : 7155052573 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

$\alpha, \beta \in R$ ପାଇଁ ଯଦି ମାଟ୍ରିକ୍ସ $A=\begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}, B=\begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}, I=\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ ମାନେ ସମୀକରଣ $(A*B)*2I = 20I$ କୁ ସିଦ୍ଧ କରନ୍ତି, ଯେଉଁଠାରେ $A*B = A^2 + B^2$ । ତେବେ $|\alpha\beta|$ ର ମୂଲ୍ୟ ସମାନ :

**Options :**

7155058097. $2\sqrt{3}$

7155058098. $2\sqrt{2}$

7155058099. $4$

7155058100. $2$

**Question Number : 6 Question Id : 7155052574 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

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

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

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

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

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

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

$\frac{1}{1+1^2+1^4}+\frac{2}{1+2^2+2^4}+\frac{3}{1+3^2+3^4}+\ldots$ ଶ୍ରେଣୀଟିର ପ୍ରଥମ 11ଟି ପଦର ସମଷ୍ଟି ଅଟେ :

**Options :**

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

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

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

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

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

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

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

**Options :**

7155058105. $e$

7155058106. $e^3$

7155058107. $e^6$

7155058108. $e^9$

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

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

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

**Options :**

7155058105. $e$

7155058106. $e^3$

7155058107. $e^6$

7155058108. $e^9$

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

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

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

**Options :**

7155058109. 90

7155058110. 180

7155058111. 360

7155058112. 270

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

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

ମନେକର ବିନ୍ଦୁ Q(1,2,0) ର ରେଖା $\frac{x-5}{3}=\frac{y-12}{1}=\frac{z-10}{2}$ ରେ ପ୍ରତିବିମ୍ବ ବିନ୍ଦୁଟି $P(\alpha,\beta,\lambda)$ ଅଟେ। ତେବେ $(PQ)^2$ ସମାନ:

**Options :**

7155058109. 90

7155058110. 180

7155058111. 360

7155058112. 270

**Question Number : 9 Question Id : 7155052577 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058113. 8820

7155058114. 10584

7155058115. 1764

7155058116. 3515

**Question Number : 9 Question Id : 7155052577 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଗୋଟିଏ ବାକ୍ସର 7ଟି ନାଲି ଓ 9ଟି ଧଳା ବଲ ଅଛି, ତା ମଧ୍ୟରୁ 8ଟି ବଲ ବାଛିବା ଯେପରିକି ତା ମଧ୍ୟରେ ଅତିକମରେ 3ଟି ବଲ ପ୍ରତ୍ୟେକ ରଙ୍ଗର ଥିବ। ଏହିପରି 8ଟି ବଲ ବାଛି ବାହାର କରିବାର ଉପାୟ ସଂଖ୍ୟା ଅଟେ:

**Options :**

7155058113. 8820

7155058114. 10584

7155058115. 1764

7155058116. 3515

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

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

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

**Options :**

7155058117. 19

7155058118. $-19$

7155058119. 18

7155058120. $-21$

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

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

ମନେକର [t] ର ଅର୍ଥ ସବୁଠାରୁ ବଡ଼ ପୂର୍ଣ୍ଣସଂଖ୍ୟାକୁ ବୁଝାଏ । ଯଦି $\int_0^1 [1+x^2+x^4]dx = a$, ତେବେ $36a-25a^2+8a^3-a^4$ ର ମୂଲ୍ୟ ଅଟେ :

**Options :**

7155058117. 19

7155058118. $-19$

7155058119. $18$

7155058120. $-21$

**Question Number : 11 Question Id : 7155052579 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058121. $\sqrt{2}$

7155058122. $2$

7155058123. $2\sqrt{2}$

7155058124. $4$

**Question Number : 11 Question Id : 7155052579 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ମନେକର PL = 8 ଏକକ ଏବଂ QM = 2 ଏକକ ବିଶିଷ୍ଟ ଦୁଇଟି ସମାନ୍ତର ରେଖାଖଣ୍ଡ ଯେପରିକି ରେଖାଖଣ୍ଡ PM ଏବଂ QL ପରସ୍ପରକୁ ବିନ୍ଦୁ R ଠାରେ ଛେଦ କରନ୍ତି। ଯଦି ବିନ୍ଦୁ P, Q, R ମଧ୍ୟଦେଇ ଗତି କରୁଥିବା ଏକ ବୃତ୍ତ ପ୍ରତି PL ଏବଂ QM ସ୍ପର୍ଶକ ଅଟନ୍ତି, ତେବେ ଏହି ବୃତ୍ତର ବ୍ୟାସାର୍ଦ୍ଧ:

**Options :**

7155058121. $\sqrt{2}$

7155058122. $2$

7155058123. $2\sqrt{2}$

7155058124. $4$

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

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

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

**Options :**

7155058125. $117$

7155058126. $129$

7155058127. $131$

7155058128. $133$

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

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

$\alpha \in N$ ପାଇଁ ମନେକର PQR ଏକ ତ୍ରିଭୁଜ ଯାହାର ଦୁଇଟି ଶୀର୍ଷ ବିନ୍ଦୁ $P(2, 5)$ ଏବଂ $Q(\alpha, -11)$ ସ୍ଥିର । ଯଦି ବିନ୍ଦୁ R ରେଖା $l_1: 9x + 7y + \alpha = 0$ ଦେଇ ଗତି କରେ ତେବେ ତ୍ରିଭୁଜ PQR ର ଭରକେନ୍ଦ୍ର (ସେଣ୍ଟ୍ରଏଡ୍) ରେଖା $l_2$ ଦେଇ ଗତି କରିବ ଯାହା $l_1$ ଠାରୁ $\frac{20}{3\sqrt{130}}$ ଏକକ ଦୂରରେ ଅବସ୍ଥିତ । ଯଦି ରେଖା $l_2$ ଠାରୁ ବିନ୍ଦୁ Q ର ଦୂରତ୍ୱ $\frac{k}{3\sqrt{130}}$ ଅଟେ, ତେବେ k ର ମୂଲ୍ୟ ସମାନ :

**Options :**

7155058125. 117

7155058126. 129

7155058127. 131

7155058128. 133

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

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

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

**Options :**

7155058129. 12

7155058130. 30

7155058131. 24

7155058132. 48

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

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

ମାନେକର $A_i(x_i, y_i),\ i = 1,2,3$ ବିନ୍ଦୁମାନେ ବୃତ୍ତ $x^2 + y^2 = 10$ ଉପରିସ୍ଥ ବିନ୍ଦୁ ଯେପରିକି $A_1$ ପ୍ରଥମ ପାଦରେ ଏବଂ ଏହାର ବିନ୍ଦୁ $A_2$ ର $y$-ଅକ୍ଷ ଭିତ୍ତିକ ପ୍ରତିବିମ୍ବ । ଯଦି ପ୍ରତ୍ୟେକ ବିନ୍ଦୁ $A_2$ ଏବଂ $A_3$ ଠାରୁ $A_1$ ର ଦୂରତ୍ୱ 2 ହୁଏ,

ତେବେ $\Delta A_1A_2A_3$ ର 20 ଗୁଣା ଅଟେ :

**Options :**

7155058129. 12

7155058130. 30

7155058131. 24

7155058132. 48

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

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

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

**Options :**

7155058133. 5

7155058134. 7

7155058135. 9

7155058136. 11

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

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

$7^{89}$ କୁ 15 ଦ୍ୱାରା ଭାଗକଲେ ଭାଗଶେଷ ଅଟେ:

**Options :**

7155058133. 5

7155058134. 7

7155058135. 9

7155058136. 11

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

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

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

**Options :**

7155058137. 5

7155058138. 13

7155058139. 19

7155058140. 27

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

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଯଦି ସମତଳ $y = \alpha x - \beta y + \gamma$ ଟି ବିନ୍ଦୁ $(1, -1, 3)$ ମଧ୍ୟଦେଇ ଗତିକରି ଅନ୍ୟ ଦୁଇଟି ସମତଳ $2x + y + z = 1$ ଏବଂ $3x - 2y + 2z = 0$ ପ୍ରତି ଲମ୍ବ ହୁଏ, ତେବେ $\alpha + \beta + y$ ସମାନ :

**Options :**

7155058137. 5

7155058138. 13

7155058139. 19

7155058140. 27

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

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

Let $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}, \vec{b} = \hat{i} - \hat{j} + 2\hat{k}, \vec{c} = 2\hat{i} + \hat{j} - 4\hat{k}$ be three vectors. If $\vec{r}$ is the vector such that $\vec{r} \times \vec{a} = \left(\vec{b} + \vec{c}\right) \times \vec{a}$ and $\vec{r} \cdot \left(\vec{b} - \vec{c}\right) = 0$, then $\vec{r} \cdot \left(\hat{i} + \hat{j} - \hat{k}\right)$ is equal to :

**Options :**

7155058141. 3

7155058142. 4

7155058143. 5

7155058144. 6

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

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

ମନେକର $\vec{a}=\hat{i}+2\hat{j}+3\hat{k}, \vec{b}=\hat{i}-\hat{j}+2\hat{k}, \vec{c}=2\hat{i}+\hat{j}-4\hat{k}$ ତିନିଗୋଟି ଦିଶାଙ୍କ । ଯଦି $\vec{r}$ ଅନ୍ୟ ଏକ ଏପରି ଦିଶାଙ୍କ ଯେପରିକି $\vec{r}\times\vec{a}=\left(\vec{b}+\vec{c}\right)\times\vec{a}$ ଏବଂ $\vec{r}\cdot\left(\vec{b}-\vec{c}\right)=0$ ତେବେ $\vec{r}\cdot\left(\hat{i}+\hat{j}-\hat{k}\right)$ ସମାନ

**Options :**

7155058141. 3

7155058142. 4

7155058143. 5

7155058144. 6

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

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

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

**Options :**

7155058145. 0

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

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

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

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

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

ସମୀକରଣ $1+x+x^2+...+x^{118}$ ର ମୂଳ ମାନଙ୍କ ମଧ୍ୟରୁ ମନଇଚ୍ଛା ବଛାଯାଇଥିବା ଏକ ମୂଳ, ସମୀକରଣ $x^7=1$ କୁ ସିଦ୍ଧ କରେ, ତେବେ ସେ ମୂଳଟିକୁ ବାଛିବାର ସମ୍ଭାବ୍ୟତା ଅଟେ :

**Options :**

7155058145. $0$

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

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

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

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

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

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

**Options :**

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

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

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

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

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

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

ମନେକର $X$ ର ଦ୍ୱିପଦ ବଣ୍ଟନ $B(n,\beta)$ ଅଟେ। ଯଦି ଦ୍ୱିପଦ ବଣ୍ଟନର ମଧ୍ୟମାନ 3 ଏବଂ ଏହାର ପ୍ରସରଣ 2 ଅଟେ, ତେବେ $P(X < \frac{n}{4})$ ସମାନ :

**Options :**

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

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

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

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

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

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

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

**Options :**

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

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

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

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

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

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

ଫଳନ $f(x)=\cos^{-1}\left(\frac{x^2-3x+2}{x^2+2x-1}\right)$ ର ଡୋମେନ୍ $(x$ ଚଳର ମୂଲ୍ୟ ମାନେ$)$ ଅଟେ :

**Options :**

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

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

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

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

**Question Number : 20 Question Id : 7155052588 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which of the following statements is a tautology ?

**Options :**

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

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

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

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

**Question Number : 20 Question Id : 7155052588 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ନିମ୍ନ ଉକ୍ତିମାନଙ୍କ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ପୁନରୁକ୍ତି (ଧ୍ରୁବସତ୍ୟ) ?

**Options :**

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

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

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

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

# Mathematics Section B

| | |
|---|---|
| **Section Id :** | 715505160 |
| **Section Number :** | 2 |
| **Section type :** | Online |
| **Mandatory or Optional :** | Mandatory |

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

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ବକ୍ର $y + |x| = 3$ ଏବଂ $y = |x-1|$ ଦ୍ୱାରା ଆବଦ୍ଧ କ୍ଷେତ୍ରକୁ ବକ୍ର $y = x^2 + 1$, m : n ଅନୁପାତରେ ବିଭକ୍ତ କରେ, ଯେଉଁଠାରେ m ଓ n ପରସ୍ପର ମୌଳିକ m+n = _____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

30 ଟି ଏକା ପ୍ରକାରର କଲମକୁ 12 ଜଣ ଛାତ୍ରଙ୍କ ମଧ୍ୟରେ ବଣ୍ଟାଗଲା ଯେପରିକି ପ୍ରତ୍ୟେକ ଛାତ୍ର ଅତିକମ୍‌ରେ ଗୋଟିଏ କଲମ ପାଆନ୍ତି ଏବଂ ଠିକ୍ ଦୁଇଜଣ ଛାତ୍ର ଅତିକମ୍‌ରେ ଦୁଇଟି କଲମ ପାଆନ୍ତି । ତେବେ ଏହି ବଣ୍ଟନ ପ୍ରକାର ଅଟେ _____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ମନକର $\left(1+x^2-x^4\right)^{12}=\sum_{n=0}^{48} a_n x^n$ । ତେବେ $a_0+a_2+a_4+\ldots+a_{44}$ =_____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ଯଦି $7+10+16+25+37+...$ ଶ୍ରେଣୀଟିର ପ୍ରଥମ n ପଦର ସମଷ୍ଟିକୁ $S_n$ ବୋଲି ଲେଖାଯାଏ, ତେବେ $S_{30}-S_{20}$ =_____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

If [t] denotes the greatest integer $\leq$ t, then the number of points , at which the function $f(x)=\left[x+x^3\right]+\left|x-x^3\right|+\left|x+\frac{1}{2}\right|$ 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 : 7155052593 Question Type : SA Calculator : None**

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

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

ଯଦି [t] ର ଅର୍ଥ t ଏକ ସର୍ବାଧିକ ପୂର୍ଣ୍ଣ ସଂଖ୍ୟା ଯାହା t ଠାରୁ ସାନ ବା t ସହ ସମାନ, ତେବେ ଫଳନ

$f(x)=\left[x+x^3\right]+\left|x-x^3\right|+\left|x+\frac{1}{2}\right|$ ଟି ମୁକ୍ତ ଅନ୍ତରାଳ $(-10, 10)$, ମଧ୍ୟରେ ଅବକଳନୀୟ ହୋଇପାରୁନଥିବା ବିନ୍ଦୁମାନଙ୍କର ସଂଖ୍ୟା

ଅଟେ _____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ଯଦି $\int \frac{dx}{(3x^2+5)\sqrt{10x^2+7}} = -\frac{1}{\sqrt{580}} \log_e |f(x)| + C$ ହୋଇଥିଲେ C ର ମାନ ସ୍ଥିରାଙ୍କ, ତେବେ $f(0) =$ _____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ମନେକର ଉତ୍‌କେନ୍ଦ୍ର (ଏକ୍ସେଣ୍ଟ୍ରିସିଟି) $e\sqrt{5}$ ଏବଂ ଫୋକସ୍ ଦ୍ୱୟ $(1, 5), (1, -1)$ ଥିବା ହାଇପରବୋଲାର ସମୀକରଣ $x^2 - 2y^2 + ax + by + c = 0$ ଓ $|a + b + c| =$_____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ମନେକର $\alpha$ ର ଦୁଇଟି ପୃଥକ୍ ମୂଲ୍ୟ $\alpha_1, \alpha_2$ ଯେପରିକି ବିନ୍ଦୁ $(2, 4, 3)$ ଏବଂ ସମତଳ $3x + y + \alpha z + 10 = 0$ ମଧ୍ୟରେ ଦୂରତା $\sqrt{35}$ ଏକକ । ତେବେ $(\alpha_1, \alpha_2, 0)$, $(\alpha_2, \alpha_1, 0)$ ଏବଂ $\left(\frac{164}{13}, 5, 0\right)$ ଶୀର୍ଷବିନ୍ଦୁ ଥିବା ତ୍ରିଭୁଜର କ୍ଷେତ୍ରଫଳ ଅଟେ _____ ବର୍ଗ ଏକକ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

O ମୂଳବିନ୍ଦୁ, ମନେକର ଦିଶାଙ୍କ $\overrightarrow{OA}=-3\hat{i}+7\hat{j}+5\hat{k}, \overrightarrow{OB}=-5\hat{i}+7\hat{j}-3\hat{k}$ ଏବଂ $\overrightarrow{OC}=\hat{u}$ ଆୟତଘନର କ୍ଷେତ୍ରର ୩ ଟି ପାର୍ଶ୍ୱ, ଯେଉଁଠାରେ $\hat{u}$ , $xy$- ସମତଳ ଉପରେ ଅବସ୍ଥିତ ଏକକ ଦିଶାଙ୍କ । ଯଦି ଆୟତଘନର ସର୍ବାଧିକ ଘନଫଳ $2\sqrt{\alpha}$ ଅଟେ, ତେବେ $\alpha=$_____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

If the solution curve of the differential equation $\frac{x+y-2}{x+y-1}\frac{dy}{dx}=\frac{x+y+2}{x+y+1}, x+y>2$ passes through the points $\left(\sqrt{2},\sqrt{2}\right)$ and $(2,\alpha)$, then $2\alpha-\log_e\left(\frac{\alpha^2+4\alpha+2}{6}\right)$ is equal to _____ .

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

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

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

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

ଯଦି ଅବକଳ ସମୀକରଣ $\frac{x+y-2}{x+y-1}\frac{dy}{dx}=\frac{x+y+2}{x+y+1}, x+y>2$ ର ସମାଧାନ ବକ୍ର ବିନ୍ଦୁ $\left(\sqrt{2},\sqrt{2}\right)$ ଏବଂ $(2,\alpha)$ ମଧ୍ୟଦେଇ

ଗତିକରେ ତେବେ $2\alpha-\log_e\left(\frac{\alpha^2+4\alpha+2}{6}\right)=$ _____ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

# Aptitude Test

| | |
|---|---|
| **Section Id :** | 715505161 |
| **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 :** | 715505161 |
| **Question Shuffling Allowed :** | Yes |
| **Is Section Default? :** | null |

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

**Instruction Time : 0**

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

Adobe is a

**Options :**

7155058171. Type of cement

7155058172. Type of floor finish

7155058173. Type of paint

7155058174. Type of Brick

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

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

ଏଡବ ହେଲା:

**Options :**

7155058171. ଏକ ପ୍ରକାର ସିମେଣ୍ଟ

7155058172. ଏକ ପ୍ରକାର ଫ୍ଲୋର ଫିନିଶ

7155058173. ଏକ ପ୍ରକାର ରଙ୍ଗ

7155058174. ଏକ ପ୍ରକାର ଇଟା

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

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

Given below are two statements:

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

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

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

**Options :**

7155058175. Both Statement I and Statement II are correct

7155058176. Both Statement I and Statement II are incorrect

7155058177. Statement I is correct but statement II is incorrect

7155058178. Statement I is incorrect but statement II is correct

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

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

ତଳେ ଦୁଇଟି କଥନ ଦିଆଯାଇଛି:

I : ଚଣ୍ଡିଗଡ ସ୍ୱାଧୀନ ଭାରତର ପ୍ରଥମ ପ୍ଲାନ୍ଡ଼ ସିଟି

II : ଚଣ୍ଡିଗଡ ସିଟି ସ୍ୱିସ ଫ୍ରେଞ୍ଚ ବାସ୍ତୁକଳାବିଦଙ୍କ ଦ୍ୱାରା ଡିଜାଇନ ହୋଇଛି।

ଉପରୋକ୍ତ କଥନ ଗୁଡ଼ିକୁ ଧ୍ୟାନରେ ରଖି, ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ

**Options :**

7155058175. ଉଭୟ କଥନ I ଏବଂ କଥନ II ସଠିକ୍ ଅଟେ

7155058176. ଉଭୟ କଥନ I ଏବଂ କଥନ II ଭୁଲ ଅଟେ

7155058177. କଥନ I ସଠିକ୍ କିନ୍ତୁ କଥନ II ଭୁଲ ଅଟେ

7155058178. କଥନ I ଭୁଲ ଅଟେ କିନ୍ତୁ କଥନ II ସଠିକ୍ ଅଟେ

**Question Number : 33 Question Id : 7155052601 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Given below are two statements:

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

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

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

**Options :**

7155058179. Both Statement I and Statement II are correct

7155058180. Both Statement I and Statement II are incorrect

7155058181. Statement I is correct but statement II is incorrect

7155058182. Statement I is incorrect but statement II is correct

**Question Number : 33 Question Id : 7155052601 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ତଳେ ଦୁଇଟି କଥନ ଦିଆଯାଇଛି:

**I :** ଗ୍ଲାସ ର ତାପ ପ୍ରବାହତା ସ୍ୱଳ୍প ଅଟେ

**II :** ଗ୍ଲାସ ଅବଶୋଷଣ, ପ୍ରତିସରଣ ଏବଂ ଆଲୋକର ଟ୍ରାନସିଟ କରିପାରେ

ଉପରୋକ୍ତ କଥନ ଗୁଡ଼ିକୁ ଧ୍ୟାନରେ ରଖି, ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ

**Options :**

7155058179. ଉଭୟ କଥନ I ଏବଂ କଥନ II ସଠିକ୍ ଅଟେ

7155058180. ଉଭୟ କଥନ । ଏବଂ କଥନ ।। ଭୁଲ ଅଟେ

7155058181. କଥନ । ସଠିକ୍ କିନ୍ତୁ କଥନ ।। ଭୁଲ ଅଟେ

7155058182. କଥନ । ଭୁଲ ଅଟେ କିନ୍ତୁ କଥନ ।। ସଠିକ୍ ଅଟେ

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

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

Match List I with List II

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

Choose the correct answer from the options given below:

**Options :**

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

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

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

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

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

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

ତାଲିକା I ସହିତ ତାଲିକା II କୁ ମିଳାଅ

| LIST I | | LIST II | |
|---|---|---|---|
| A. | PMUY | I. | କୌଶଳ ବିକାଶ ଯୋଜନା |
| B. | PMAY | II. | ଜନ ଧନ ଯୋଜନା |
| C. | PMKVY | III. | ଉଜ୍ଜ୍ୱଳା ଯୋଜନା |
| D. | PMJDY | IV. | ଆୱାସ ଯୋଜନା |

ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ:

**Options :**

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

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

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

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

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

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

Match List I with List II

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

Choose the correct answer from the options given below:

**Options :**

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

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

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

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

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

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

ତାଲିକା । ସହିତ ତାଲିକା ॥ କୁ ମିଳାଅ

| ତାଲିକା I | | ତାଲିକା II | |
|---|---|---|---|
| A. | ସିପି କୁକରେଜା | I. | IIM ଅହମଦାବାଦ |
| B. | ଲୁଇସ ଆଇ କହନ | II. | ଜବାହରଲାଲ ନେହେରୁ ୟୁନିଭରସିଟି |
| C. | B.V ଦୋଶି | III. | IIT କାନପୁର |
| D. | ଅଚ୍ୟୁତ କନଭିଣ୍ଡେ | IV. | IIM ବେଙ୍ଗାଲୁରୁ |

ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ:

**Options :**

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

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

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

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

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

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

Which one of these is not a complimentary colour?

**Options :**

7155058191. Blue-Orange

7155058192. Red-Green

7155058193. Blue-Green

7155058194. Violet-Yellow

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

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

କେଉଁଟି ଏକ କମ୍ପ୍ଲିମେଣ୍ଟରୀ ରଙ୍ଗ ନୁହେଁ?

**Options :**

7155058191. ବ୍ଲୁ(ନୀଳ) - ଅରେଞ୍ଜ (କମଳା)

7155058192. ରେଡ୍-ଗ୍ରୀନ

7155058193. ବ୍ଲୁ-ଗ୍ରୀନ

7155058194. ବାଇଗଣି-ହଳଦିଆ

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

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

In which State of India, Robbers cave is situated:

**Options :**

7155058195. Himachal Pradesh

7155058196. Uttarakhand

7155058197. Uttar Pradesh

7155058198. Madhya Pradesh

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

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

ରବର୍ଘ ଗୁମ୍ଫା ଭାରତର କେଉଁ ରାଜ୍ୟରେ ସ୍ଥିତ:

**Options :**

7155058195. ହିମାଚଳ ପ୍ରଦେଶ

7155058196. ଉତ୍ତରାଖଣ୍ଡ

7155058197. ଉତ୍ତର ପ୍ରଦେଶ

7155058198. ମଧ୍ୟ ପ୍ରଦେଶ

**Question Number : 38 Question Id : 7155052606 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Choose the correct option among the following:

Petronas Tower is situated in:

**Options :**

7155058199. Paris

7155058200. Dubai

7155058201. Kuala Lumpur

7155058202. New York

**Question Number : 38 Question Id : 7155052606 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ସଠିକ୍ ବିକଳ୍ପଟି ବାଛ:

ପେଟ୍ରୋନା ଟାୱାର ରହିଛି

**Options :**

7155058199. ପ୍ୟାରିସ

7155058200. ଦୁବାଇ

7155058201. କୁଆଲାଲମପୁର

7155058202. ନ୍ୟୁୟର୍କ

**Question Number : 39 Question Id : 7155052607 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

The Konark Temple is located in which state?

**Options :**

7155058203. Madhya Pradesh

7155058204. Odisha

7155058205. Karnataka

7155058206. Rajasthan

**Question Number : 39 Question Id : 7155052607 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

କୋଣାର୍କ ମନ୍ଦିର କେଉଁ ରାଜ୍ୟରେ ସ୍ଥିତ:

**Options :**

7155058203. ମଧ୍ୟ ପ୍ରଦେଶ

7155058204. ଓଡ଼ିଶା

7155058205. କର୍ଣ୍ଣାଟକ

7155058206. ରାଜସ୍ଥାନ

**Question Number : 40 Question Id : 7155052608 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Who is the architect of the Lotus Temple?

**Options :**

7155058207. Louis I Kahn

7155058208. Mohse  Safdi

7155058209. Fariborz Sahba

7155058210. Richard Meyer

**Question Number : 40 Question Id : 7155052608 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଲୋଟସ ମନ୍ଦିରର ବାସ୍ତୁକଳା ବିତ୍ ହେଲେ:

**Options :**

7155058207. ଲୁଇସ ଆଇ କହନ

7155058208. ମୋହସେ ସାଫଦି

7155058209. ଫରିଦୋଜ ସହବା

7155058210. ରିଚାର୍ଡ ମେୟର

**Question Number : 41 Question Id : 7155052609 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058211. A dead Bearer

7155058212. A Dumb Waiter

7155058213. A Jockey Boy

7155058214. A push upper

**Question Number : 41 Question Id : 7155052609 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଏକ ଛୋଟ ଲୋଡ଼ ବୋହିବା ପାଇଁ ବ୍ୟବହୃତ ଛୋଟ ଲୋଫ୍ଟ କୁ କୁହାଯାଏ:

**Options :**

7155058211. ଏକ ଡେଡ ବିଅରର୍

7155058212. ଏକ ଡମ୍ବ ୱେଟର

7155058213. ଏକ ଜକି ବୟ

7155058214. ଏକ ପୁସ ଅପର

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

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

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

**Options :**

7155058215. Bhubaneshwar-Puri

7155058216. Puri-Cuttack

7155058217. Bhubaneshwar-Cuttack

7155058218. Bhubaneshwar-Rourkela

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

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

କାହାକୁ ସାଧାରଣତଃ ଓଡ଼ିଶାର "ଟ୍ୱିନ ସହର" କୁହାଯାଏ।

**Options :**

7155058215. ଭୁବନେଶ୍ୱର - ପୁରୀ

7155058216. ପୁରୀ - କଟକ

7155058217. ଭୁବନେଶ୍ୱର - କଟକ

7155058218. ଭୁବନେଶ୍ୱର - ରାଉରକେଲା

**Question Number : 43 Question Id : 7155052611 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058219. Mesopotamia-Harappa-Egyptian-Chinese

7155058220. Mesopotamia-Egyptian-Harappa-Chinese

7155058221. Mesopotamia-Chinese-Harappa-Egyptian

7155058222. Egyptian-Mesopotamia-Harappa-Sumerian

**Question Number : 43 Question Id : 7155052611 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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

ମଣିଷ ସଭ୍ୟତାର ଉପସ୍ଥିତି ଅନୁସାରେ ସଠିକ୍ କ୍ରମ ହେଲା:

**Options :**

7155058219. ମେସୋପଟାମିଆ - ହରପ୍ପା - ଇଜିପସିଅନ - ଚାଇନିଜ

7155058220. ମେସୋପଟାମିଆ - ଇଜିପସିଅନ - ହରପ୍ପା - ଚାଇନିଜ

7155058221. ମେସୋପଟାମିଆ - ଚାଇନିଜ - ହରପ୍ପା - ଇଜିପସିଅନ

7155058222. ଇଜିପସିଅନ - ମେସୋପଟାମିଆ - ହରପ୍ପା - ସୁମେରିଅ

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

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

Qutub-Minar in Delhi was built by:

**Options :**

7155058223. Shah Jahan

7155058224. Jahangir

7155058225. Akbar

7155058226. Qutub ud-din Aibak

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

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

ଦିଲ୍ଲୀର କୁତବ ମିନାର ଗଢା ହୋଇଛି:

**Options :**

7155058223. ଶାହଜହାନଙ୍କ ଦ୍ୱାରା

7155058224. ଜାହାଙ୍ଗିରଙ୍କ ଦ୍ୱାରା

7155058225. ଆକବରଙ୍କ ଦ୍ୱାରା

7155058226. କୁତୁବ-ଉଧ-ଦିନ-ଆଇବାକ

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

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

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

**Options :**

7155058227. North

7155058228. South

7155058229. East

7155058230. West

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

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

ଦକ୍ଷିଣ ଗୋଲାର୍ଦ୍ଧର କେଉଁ ଦିଗରେ ତୁମେ ଗ୍ଲେୟର ଫ୍ରି (ଡିଫ୍ୟୁଜଡ୍-ବିଲିନ) ଆଲୋକ ବର୍ଷ ତମାମ ପାଇବେ।

**Options :**

7155058227. ଉତ୍ତର

7155058228. ଦକ୍ଷିଣ

7155058229. ପୂର୍ବ

7155058230. ପଶ୍ଚିମ

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

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

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

**Options :**

7155058231. Raj Rewal

7155058232. Charles Correa

7155058233. Achyut Kanvinde

7155058234. Hafeez Contractor

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

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

ପ୍ରସିଦ୍ଧ ଜୟପୁର "ଜବାହର କଳା କେନ୍ଦ୍ର" ର ସ୍ଥାପକ ହେଲେ:

**Options :**

7155058231. ରାଜ ରେୱଲ

7155058232. ଚାର୍ଲସ କୋରିଆ

7155058233. ଅଚ୍ୟୁତ କାନଭିଣ୍ଡେ

7155058234. ହଫିଜ କଣ୍ଟ୍ରାକ୍ଟର

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

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

Dhajji-Dewari is a construction style popular predominantly in _____.

**Options :**

7155058235. Coastal Areas

7155058236. Plains

7155058237. Mountainous Region

7155058238. Desert Areas

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

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

"ଧଜି-ଦିୱାରି" ଏକ ଲୋକପ୍ରିୟ ନିର୍ମାଣ ଶୈଳୀ ଅଟେ _____ ର।

**Options :**

7155058235. ଉପକୂଳବର୍ତ୍ତୀ ଅଞ୍ଚଳର

7155058236. ସମତଳ ଅଞ୍ଚଳର

7155058237. ପାହାଡିଆ ଅଞ୍ଚଳର

7155058238. ମରୁଭୂମି ଅଞ୍ଚଳର

**Question Number : 48 Question Id : 7155052616 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Which stone is used for roofing in mountainous regions?

**Options :**

7155058239. Marble

7155058240. Granite

7155058241. Shale

7155058242. Sand Stone

**Question Number : 48 Question Id : 7155052616 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ପର୍ବତାଞ୍ଚଳରେ ଛାତ ପାଇଁ ପଥର ବିନିଯୋଗ ହୁଏ:

**Options :**

7155058239. ମାର୍ବଲ

7155058240. ଗ୍ରାନାଇଟ

7155058241. ଶେଲ

7155058242. (ବାଲି) ସେଣ୍ଡ ପଥର

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

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

Chandigarh is an example of which type of city planning.

**Options :**

7155058243. Radio Centric

7155058244. Grid-iron

7155058245. Linear

7155058246. Organic

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

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

ଚଣ୍ଡିଗଡ କେଉଁ ପ୍ରକାର ସହର ପ୍ଲାନିଂ ର ଉଦାହରଣ।

**Options :**

7155058243. ରେଡିଓ ସେଣ୍ଟ୍ରିକ

7155058244. ଗ୍ରୀଡ - ଆଇରନ

7155058245. ଲିନିଅର

7155058246. ଅରଗାନିକ

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

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

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

**Options :**

7155058247. Those facing North

7155058248. Those facing South

7155058249. Those facing East

7155058250. Those facing West

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

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

ଗୋଆ ସମୁଦ୍ରତଟରେ ଘର କରିଲେ, କେଉଁ ରୁମ ଗୁଡିକରୁ ସମୁଦ୍ରର ଅତିସୁନ୍ଦର (ବେଷ୍ଟ) ଭ୍ୟୁ ମିଳିବ।

**Options :**

7155058247. ଉତ୍ତର ମୁହାଁ

7155058248. ଦକ୍ଷିଣ ମୁହାଁ

7155058249. ପୂର୍ବ ମୁହାଁ

7155058250. ପଶ୍ଚିମ ମୁହାଁ

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

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

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

**Options :**

7155058251. B.V Doshi

7155058252. C.P Kukreja

7155058253. Raj Rewal

7155058254. Bimal Patel

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

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

"NIFT" ଜାତୀୟ ଫ୍ୟାସନ ଟେକ୍ନୋଲୋଜି ଅନୁଷ୍ଠାନର ଡିଜାଇନର ହେଲେ:

**Options :**

7155058251. ବି. ଭି. ଦୋଷି

7155058252. ସି. ପି. କୁକରେଜା

7155058253. ରାଜ ରେଲୱେ

7155058254. ବିମଲ ପଟେଲ

**Question Number : 52 Question Id : 7155052620 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Match List I with List II

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

Choose the correct answer from the options given below:

**Options :**

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

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

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

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

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

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

ତାଲିକା । ସହିତ ତାଲିକା ।। କୁ ମିଳାଅ

| ତାଲିକା I | | ତାଲିକା II | |
|---|---|---|---|
| A. |  | I. | ଏମ୍ପାୟାର ଷ୍ଟେଟ ବିଲଡିଙ୍ଗ |
| B. |  | II. | ହାଜିଆ ସୋଫିଆ |
| C. |  | III. | ସିଡନି ଅପେରା ହାଉସ |
| D. |  | IV. | କୋଲୋଜିଅମ |

ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ:

**Options :**

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

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

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

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

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

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

Match List I with List II

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

Choose the correct answer from the options given below:

**Options :**

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

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

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

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

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

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

ତାଲିକା । ସହିତ ତାଲିକା ।। କୁ ମିଳାଅ

| ତାଲିକା I | | ତାଲିକା II | |
|---|---|---|---|
| A. |  | I. | ଟେସଲା |
| B. |  | II. | ଫେରାରୀ |
| C. |  | III. | ପୋର୍ଚ |
| D. |  | IV. | ଟୋୟୋଟା |

ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ

**Options :**

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

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

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

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

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

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

Given below are two statements:

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

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

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

**Options :**

7155058263. Both Statement I and Statement II are correct

7155058264. Both Statement I and Statement II are incorrect

7155058265. Statement I is correct but statement II is incorrect

7155058266. Statement I is incorrect but statement II is correct

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

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

ତଳେ ଦୁଇଟି କଥନ ଦିଆଯାଇଛି:

**I:** ରେଡ, ବ୍ଲୁ ଏବଂ ୟୋଲୋ ରଙ୍ଗ ଚକ୍ରର ପ୍ରାଥମିକ ରଙ୍ଗ ଅଟନ୍ତି।

**II:** ଯେଉଁ ରଙ୍ଗ ସବୁ ପରସ୍ପରର ବିପରୀତରେ ସ୍ଥିତ (ରଙ୍ଗ ଚକ୍ରରେ) ସେମାନଙ୍କୁ ପରିପୂରକ ରଙ୍ଗ କୁହାଯାଏ।

ଉପରୋକ୍ତ କଥନ ଗୁଡ଼ିକୁ ଧ୍ୟାନରେ ରଖି, ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ

**Options :**

7155058263. ଉଭୟ କଥନ । ଏବଂ କଥନ ।। ସଠିକ୍ ଅଟେ

7155058264. ଉଭୟ କଥନ । ଏବଂ କଥନ ।। ଭୁଲ ଅଟେ

7155058265. କଥନ । ସଠିକ୍ କିନ୍ତୁ କଥନ ।। ଭୁଲ ଅଟେ

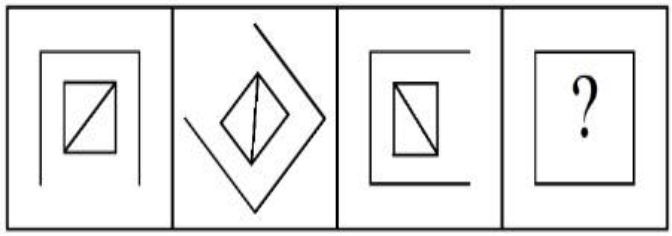
7155058266. କଥନ । ଭୁଲ ଅଟେ କିନ୍ତୁ କଥନ ।। ସଠିକ୍ ଅଟେ

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

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

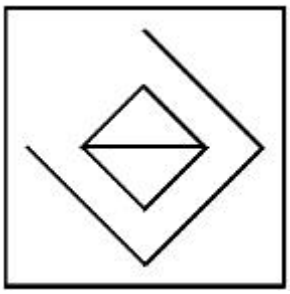
Following question consists of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.

PROBLEM FIGURES

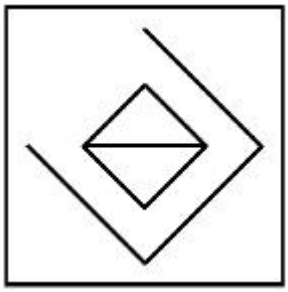


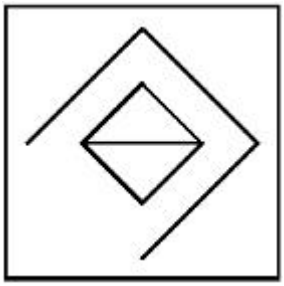

**Options :**

7155058267.



7155058268. 

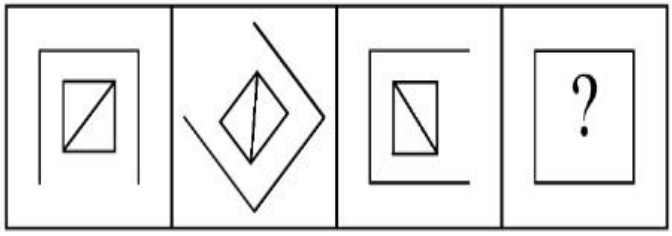
7155058269. 

7155058270. 

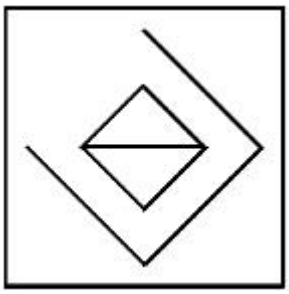
**Question Number : 55 Question Id : 7155052623 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

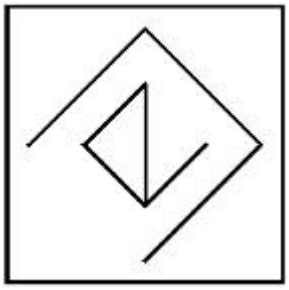
**Correct Marks : 4 Wrong Marks : 1**

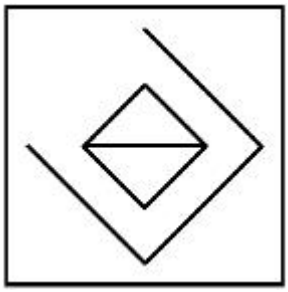
ନିମ୍ନୋକ୍ତ ପ୍ରଶ୍ନରେ ପ୍ରଶ୍ନ ଚିତ୍ର ତଥା ଉତ୍ତର ଚିତ୍ର ରହିଛି। ପ୍ରଶ୍ନଚିତ୍ରର ପ୍ୟାଟର୍ନ କୁ ପରିବର୍ତ୍ତିତ (କଣ୍ଟିନ୍ୟୁ) କରୁଥିବା ଉତ୍ତର ଚିତ୍ର ହେଲା:

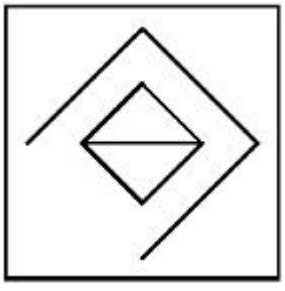



**Options :**

7155058267. 

7155058268. 

7155058269. 

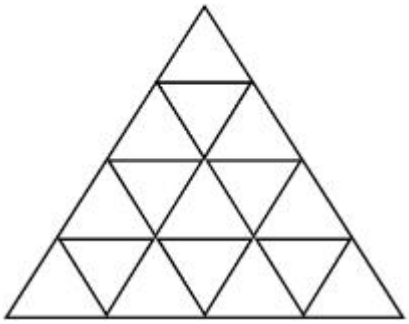
7155058270. 

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

**Instruction Time : 0**

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

How many triangles are there in given figure:-



**Options :**

7155058271. 26

7155058272. 25

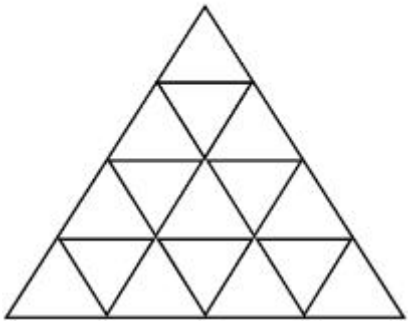
7155058273. 27

7155058274. 24

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

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

ଚିତ୍ରରେ କେତୋଟି ତ୍ରିଭୁଜ ରହିଛି:



**Options :**

7155058271. 26

7155058272. 25

7155058273. 27

7155058274. 24

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

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

Find the odd one out:-

7, 9, 25, 32, 43, 59

**Options :**

7155058275. 59

7155058276. 32

7155058277. 25

7155058278. 9

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

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

ବିସଙ୍ଗତ ସଂଖ୍ୟାଟି ହେଲା:

7, 9, 25, 32, 43, 59

**Options :**

7155058275. 59

7155058276. 32

7155058277. 25

7155058278. 9

**Question Number : 58 Question Id : 7155052626 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058279. 45.6 meter

7155058280. 50 meter

7155058281. 50.4 meter

7155058282. 51.6 meter

**Question Number : 58 Question Id : 7155052626 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଏକ ରିହାଇସି ବିଲଡିଙ୍ଗ ରେ 15 ଟି ଫ୍ଲୋର (ତଳ) ରହିଛି। ଗ୍ରାଉଣ୍ଡ ଫ୍ଲୋରର ଉଚ୍ଚତା 4.2 ମିଟର (ଦୈର୍ଘ୍ୟ ଏବଂ ସ୍ଲାବ ମୋଟେଇକୁ ମିଶାଇ)। ଅନ୍ୟ ସମସ୍ତ ଫ୍ଲୋର 4.2 ମିଟର ଉଚ୍ଚତାର (ସ୍ଲାବ ମୋଟେଇକୁ ମିଶାଇ)। ବିଲଡିଙ୍ଗର ସମଗ୍ର ଉଚ୍ଚତା (ଗ୍ରାଉଣ୍ଡ ରୁ ଟେରାସ ଯାଏ) ମିଟରରେ ହେବ:

**Options :**

7155058279. 45.6 ମିଟର

7155058280. 50 ମିଟର

7155058281. 50.4 ମିଟର

7155058282. 51.6 ମିଟର

**Question Number : 59 Question Id : 7155052627 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Identify the mirror image of the given word:-

SUCCESS

**Options :**

7155058283. SUCCESS

7155058284. SUCCESS

7155058285. SUCCESS

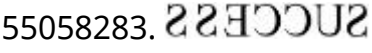
7155058286. SSECCUS

**Question Number : 59 Question Id : 7155052627 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଦିଆଯାଇଥିବା ଶବ୍ଦର ଦର୍ପଣ ପ୍ରତିବିମ୍ବ ହେଲା:


**Options :**

7155058283. 

7155058284. 

7155058285. SUCCESS

7155058286. SSECCUS

**Question Number : 60 Question Id : 7155052628 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058287. 0.7 km

7155058288. 7000 mm

7155058289. 7 km

7155058290. 70 meter

**Question Number : 60 Question Id : 7155052628 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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

ମ୍ୟାପ ର ସ୍କେଲ 1:1000 ଅଟେ। ଯଦି ଏକ କାର 'A' ବିନ୍ଦୁରୁ 'B' ବିନ୍ଦୁକୁ ମ୍ୟାପରେ ଗମନ କରେ, ତେବେ ପ୍ରକୃତରେ କାର କେତେ ଦୂରତା ଗମନ କରିଛି:

**Options :**

7155058287. 0.7 km

7155058288. 7000 mm

7155058289. 7 km

7155058290. 70 meter

**Question Number : 61 Question Id : 7155052629 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155058291. 8 meter × 4 meter

7155058292. 80 meter × 40 meter

7155058293. 8 centimeter × 4 centimeter

7155058294. 4 meter × 2 meter

**Question Number : 61 Question Id : 7155052629 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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

80 ମି. × 40 ମି. ଲ୍ୟାଣ୍ଡ ସାଇଜ ଘରର ଡିଜାଇନ ଯଦି 1:100 ସ୍କେଲ ରେ ଅଙ୍କାଯାଏ, ତେବେ ପେପର ଉପରେ ଲ୍ୟାଣ୍ଡ ସାଇଜ ହେବ:

**Options :**

7155058291. 8 ମି.× 4 ମି.

7155058292. 80 ମି. × 40 ମି.

7155058293. 8 ସେମି. × 4 ସେମି.

7155058294. 4 ମି. × 2 ମି.

**Question Number : 62 Question Id : 7155052630 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Find the missing number in given series.

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

**Options :**

7155058295. 523

7155058296. 521

7155058297. 524

7155058298. 520

**Question Number : 62 Question Id : 7155052630 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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

ସିରିଜରେ ମିସିଂ ନମ୍ବର ହେଲା:

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

**Options :**

7155058295. 523

7155058296. 521

7155058297. 524

7155058298. 520

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

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

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

**Options :**

7155058299. KVCMA

7155058300. KWCNB

7155058301. KUCLA

7155058302. KVCNA

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

**Instruction Time : 0**

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

ROMAN କୁ କୋଡ ଭାଷାରେ TQOCP ଲେଖିଲେ: ITALY କୋଡ ଭାଷାରେ ହେବ:

**Options :**

7155058299. KVCMA

7155058300. KWCNB

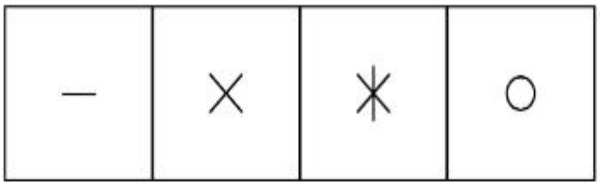
7155058301. KUCLA

7155058302. KVCNA

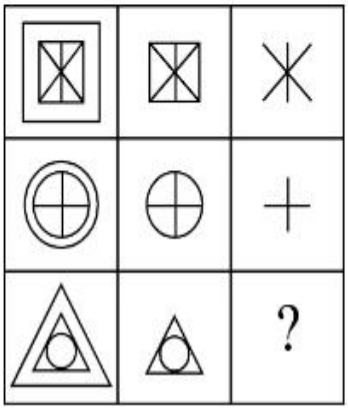
**Question Number : 64 Question Id : 7155052632 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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



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



**Options :**

7155058303. D

7155058304. C

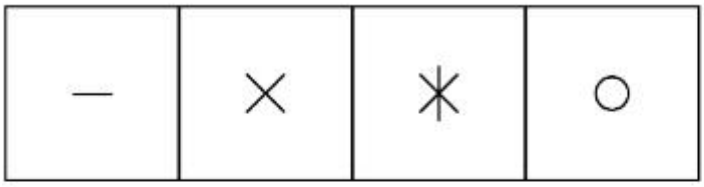
7155058305. B

7155058306. A

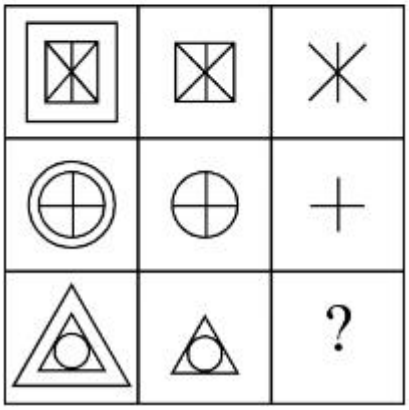
**Question Number : 64 Question Id : 7155052632 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ଖାଲି ବାକ୍ସରେ ପ୍ରଯୁଜ୍ୟ ଉପଯୁକ୍ତ ଚାରି ବିକଳ୍ପ ମଧ୍ୟରୁ ଉତ୍ତର ଚିତ୍ରଟି ହେଲା:



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



**Options :**

7155058303. D

7155058304. C

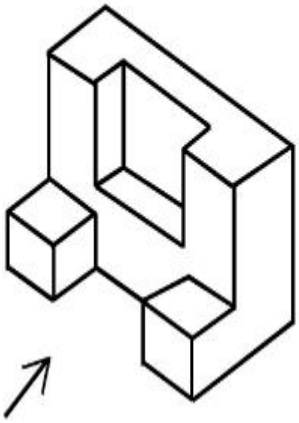
7155058305. B

7155058306. A

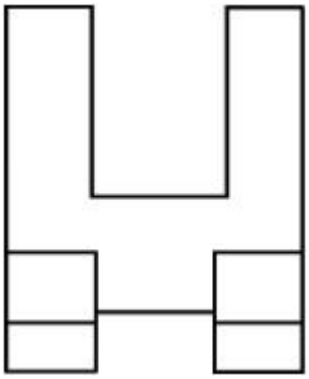
**Question Number : 65 Question Id : 7155052633 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

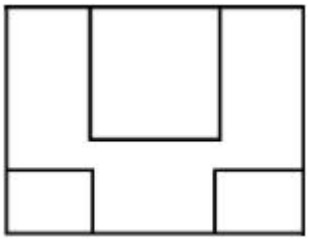
**Correct Marks : 4 Wrong Marks : 1**

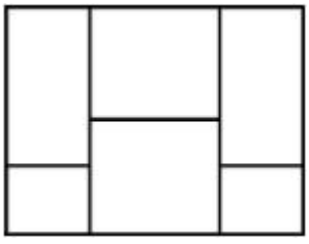
The 3D figure shows the view of an object. Looking in the direction of arrow, identify the most appropriate elevation from the given answer figures.

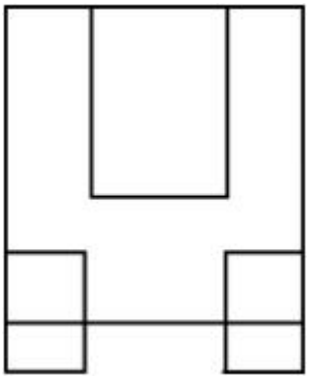


**Options :**

7155058307. 

7155058308. 

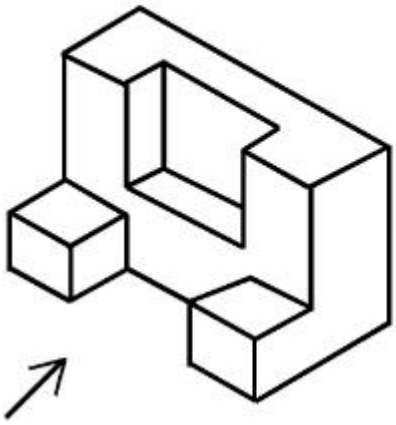
7155058309. 

7155058310. 

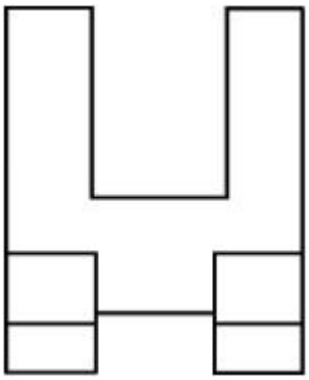
**Question Number : 65 Question Id : 7155052633 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

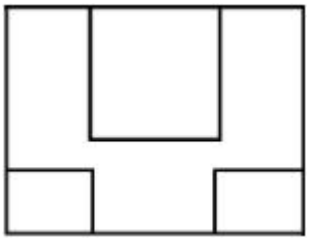
**Correct Marks : 4 Wrong Marks : 1**

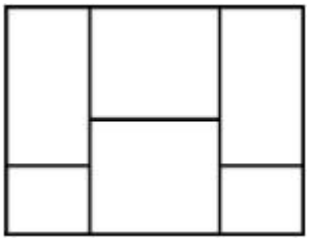
3D ଚିତ୍ର ବସ୍ତୁର ଭ୍ୟୁ ଦର୍ଶାଉଛି। ତୀର ଦିଗରେ ଦେଖିଲେ ଉପଯୁକ୍ତ ସମ୍ମୁଖ ଭ୍ୟୁ ହେବ:

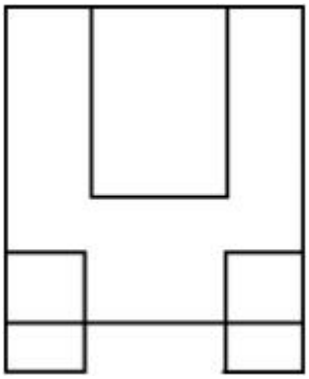


**Options :**

7155058307. 

7155058308. 

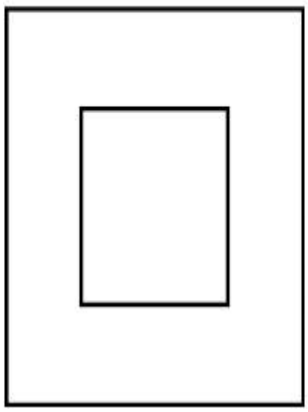
7155058309. 

7155058310. 

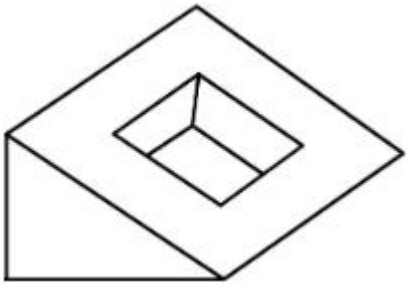
**Question Number : 66 Question Id : 7155052634 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

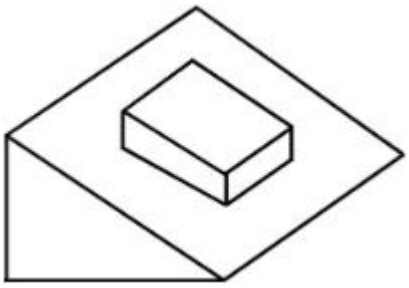
**Correct Marks : 4 Wrong Marks : 1**

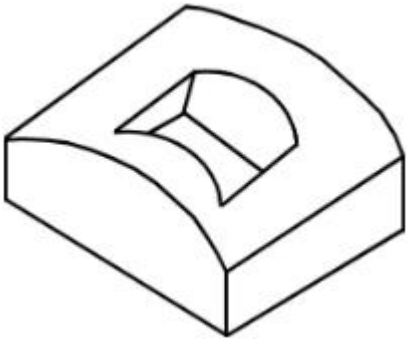
Question figure shows top view/ plan of an object. Identify the INCORRECT 3D view from the given answers figure.

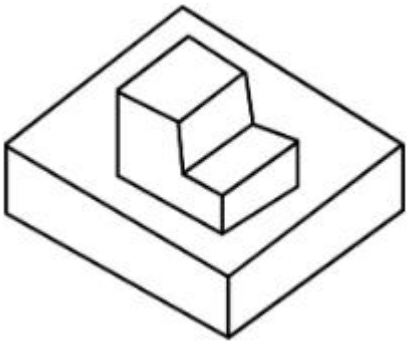


**Options :**

7155058311. 

7155058312. 

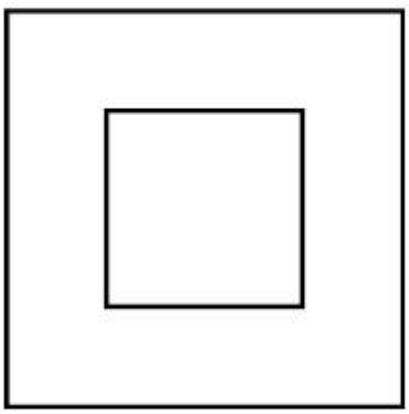
7155058313. 

7155058314. 

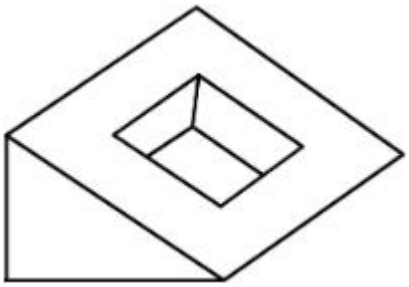
**Question Number : 66 Question Id : 7155052634 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

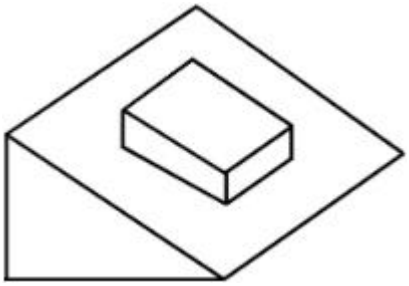
**Correct Marks : 4 Wrong Marks : 1**

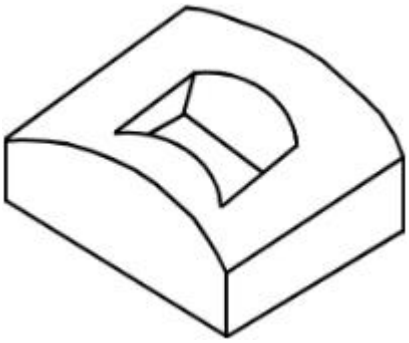
ପ୍ରଶ୍ନଚିତ୍ର ଟପ ଭ୍ୟୁ/ ପ୍ଲାନ ଦର୍ଶାଉଛି। ଭୁଲ 3D ଭ୍ୟୁ କୁ ଉତ୍ତର ଚିତ୍ର ମଧ୍ୟରୁ ଚୟନ କରନ୍ତୁ।

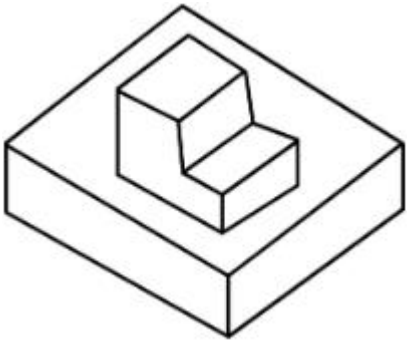


**Options :**

7155058311. 

7155058312. 

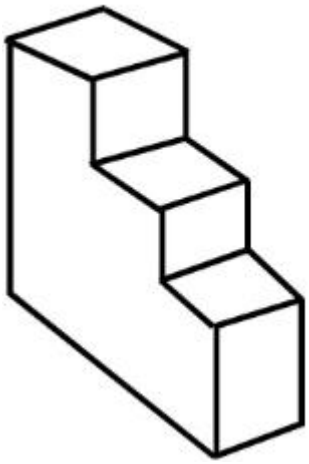
7155058313. 

7155058314. 

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

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

How many surfaces does the object have?



**Options :**

7155058315. 9

7155058316. 10

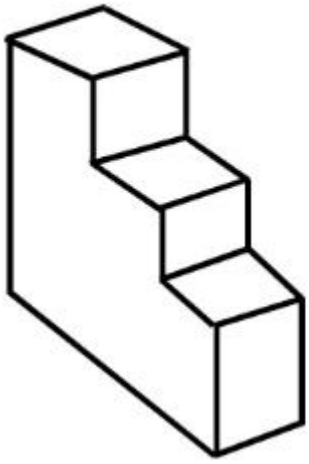
7155058317. 8

7155058318. 11

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

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

ଏହି ବସ୍ତୁର କେତୋଟି ପୃଷ୍ଠତଳ ରହିଛି।



**Options :**

7155058315. 9

7155058316. 10

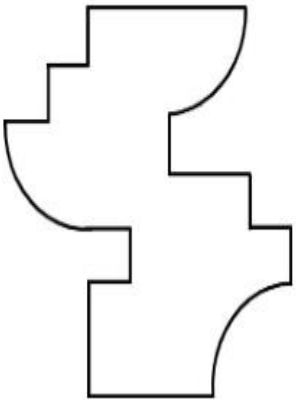
7155058317. 8

7155058318. 11

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

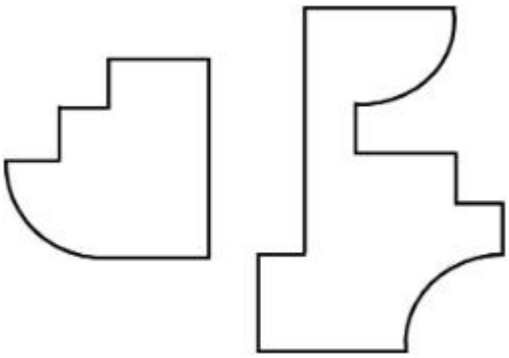
**Correct Marks : 4 Wrong Marks : 1**

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

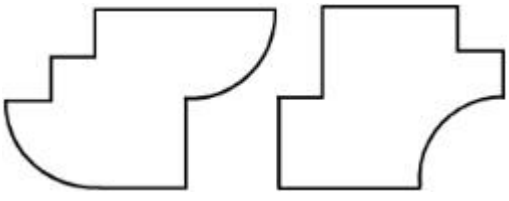


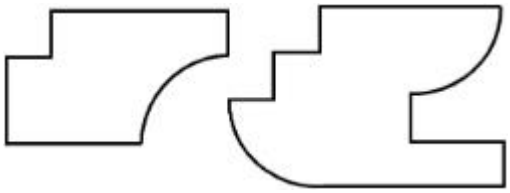
**Options :**

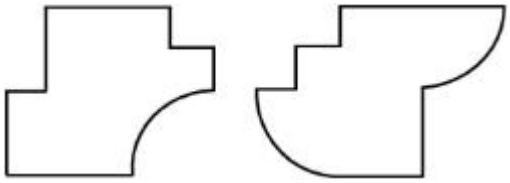
7155058319.



7155058320.



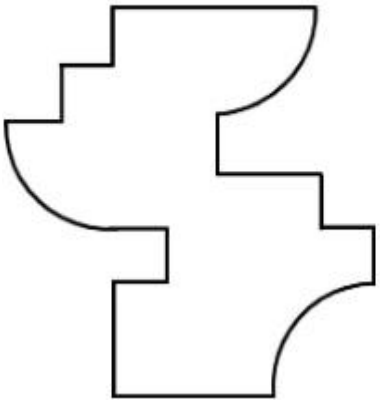
7155058321. 

7155058322. 

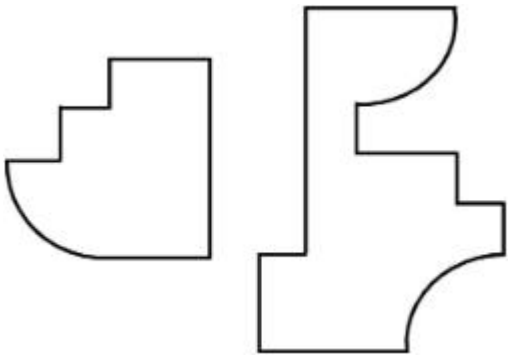
**Question Number : 68 Question Id : 7155052636 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

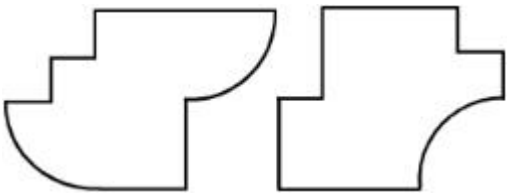
**Correct Marks : 4 Wrong Marks : 1**

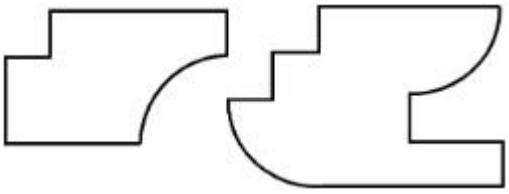
ଯଦି ପ୍ରଶ୍ନଚିତ୍ରକୁ ଦୁଇଭାଗ କରାଯାଏ, କେଉଁ ଉତ୍ତର ଚିତ୍ର ପ୍ରଶ୍ନଚିତ୍ରକୁ ପୂର୍ଣ୍ଣ କରିବ ବିନା ଅଭରଲାପିଂରେ:

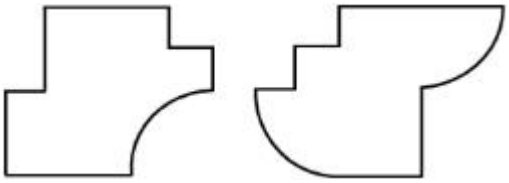


**Options :**

7155058319. 

7155058320. 

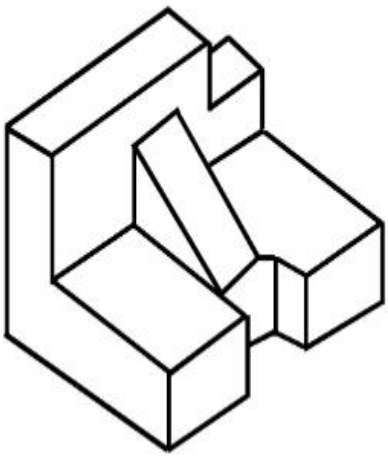
7155058321. 

7155058322. 

**Question Number : 69 Question Id : 7155052637 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

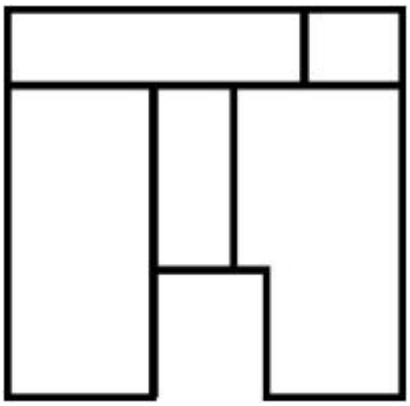
**Correct Marks : 4 Wrong Marks : 1**

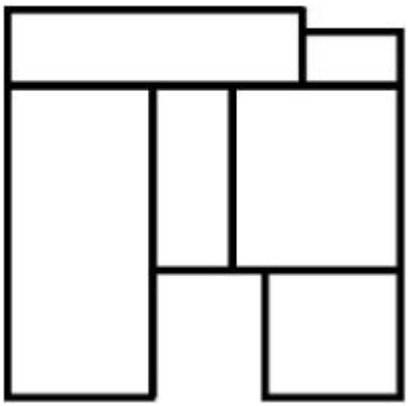
The 3D problem figure shows the view of an object. Identify its appropriate top view from the answer figures.

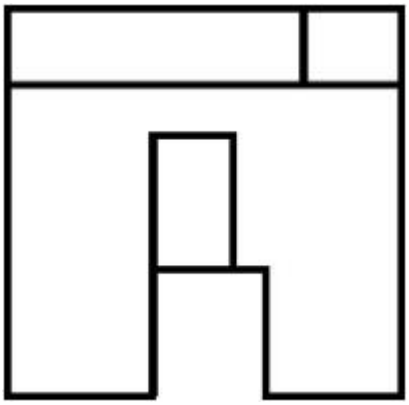


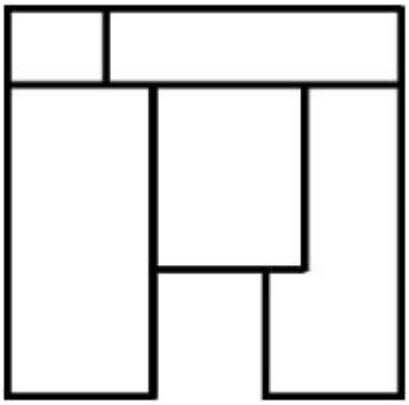
**Options :**

7155058323.



7155058324. 

7155058325. 

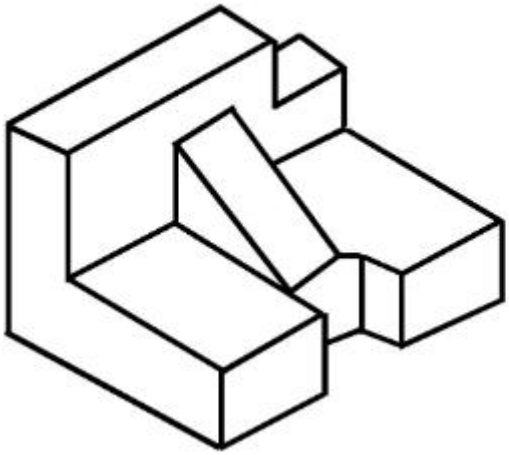
7155058326. 

**Question Number : 69 Question Id : 7155052637 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

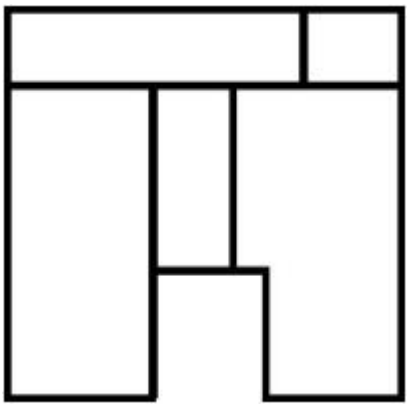
**Instruction Time : 0**

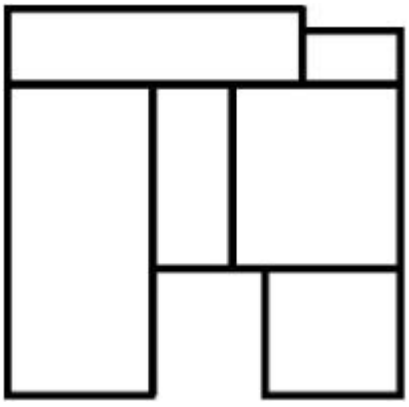
**Correct Marks : 4 Wrong Marks : 1**

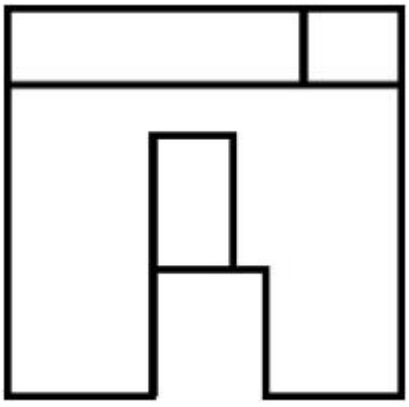
ଦସ୍ତୁର 3D ଭ୍ୟୁ ଦିଆଗଲା। ଉପଯୁକ୍ତ ଟପ ଭ୍ୟୁ ଟି ହେଲା:

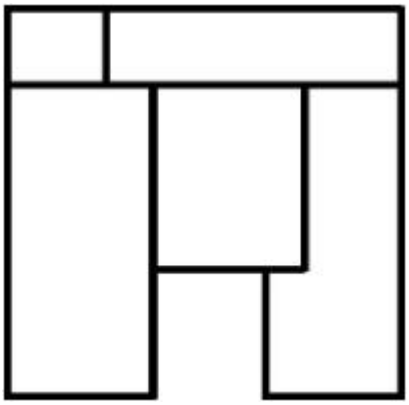


**Options :**

7155058323. 

7155058324. 

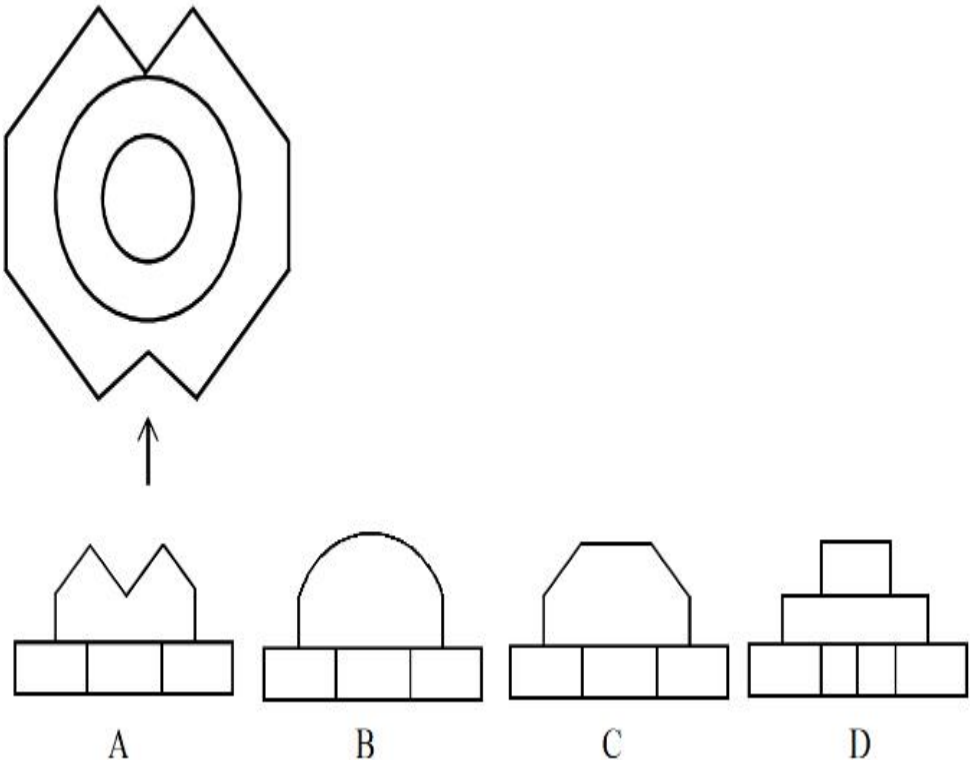
7155058325. 

7155058326. 

**Question Number : 70 Question Id : 7155052638 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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




**Options :**

7155058327. D

7155058328. A

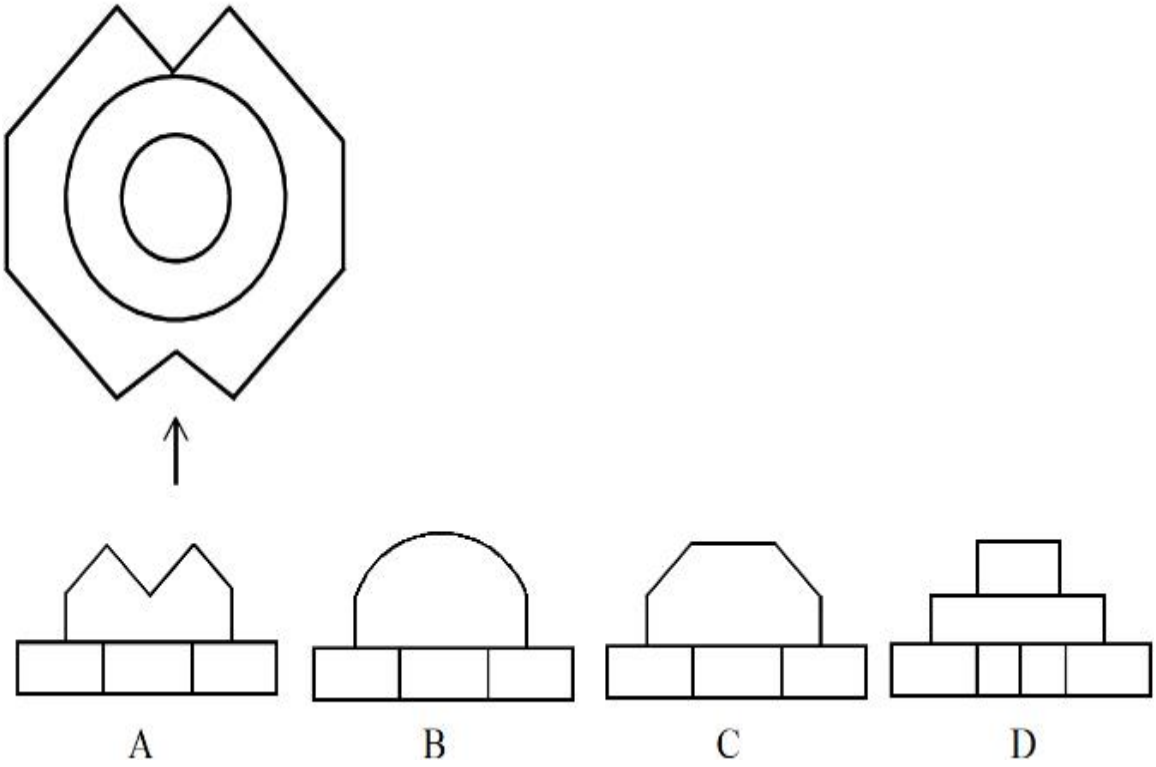
7155058329. B

7155058330. C

**Question Number : 70 Question Id : 7155052638 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ପ୍ଲାନ ବସ୍ତୁର ସଠିକ ସମ୍ମୁଖ ଭ୍ୟୁ ତୀର ଦିଗରୁ ହେବ:




**Options :**

7155058327. D

7155058328. A

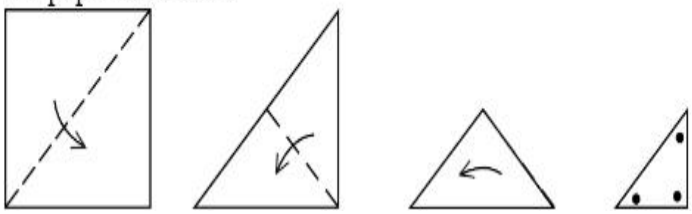
7155058329. B

7155058330. C

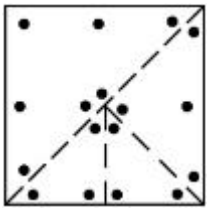
**Question Number : 71 Question Id : 7155052639 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

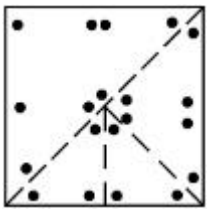
**Correct Marks : 4 Wrong Marks : 1**

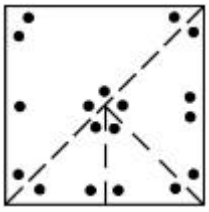
A paper is folded in a given pattern and it is cut at the end. Identify which pattern is formed when the paper is unfold.

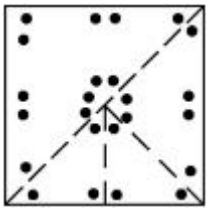


**Options :**

7155058331. 

7155058332. 

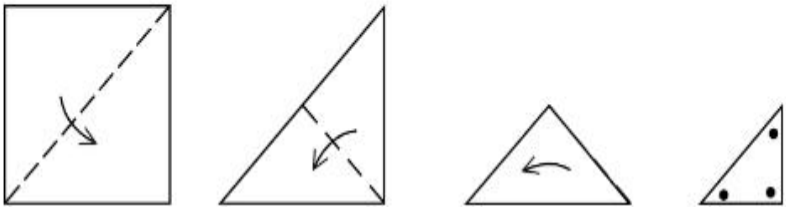
7155058333. 

7155058334. 

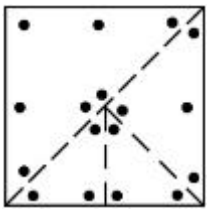
**Question Number : 71 Question Id : 7155052639 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

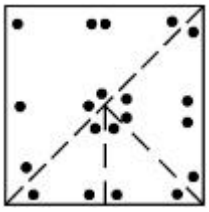
**Correct Marks : 4 Wrong Marks : 1**

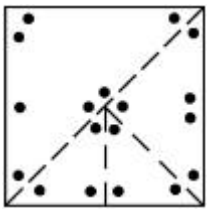
ପେପରକୁ ଫୋଲ୍ଡ କରାଗଲା ଦିଆଯାଇଥିବା କ୍ରମରେ ଏବଂ କଟାଗଲା। ଅନଫୋଲ୍ଡ କାଲେ କେଉଁ ପ୍ୟାଟର୍ନ ମିଳିବ:

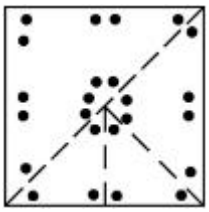


**Options :**

7155058331. 

7155058332. 

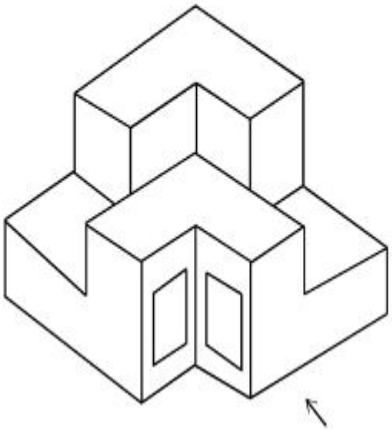
7155058333. 

7155058334. 

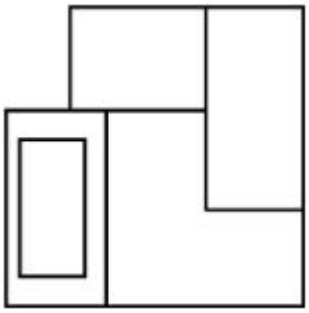
**Question Number : 72 Question Id : 7155052640 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

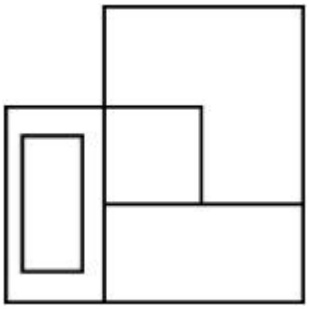
**Correct Marks : 4 Wrong Marks : 1**

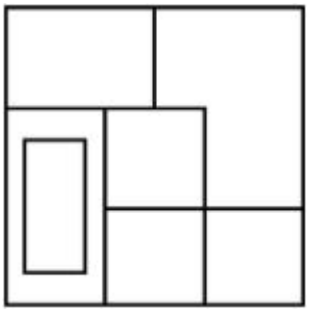
The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.

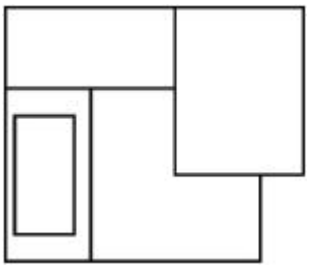


**Options :**

7155058335. 

7155058336. 

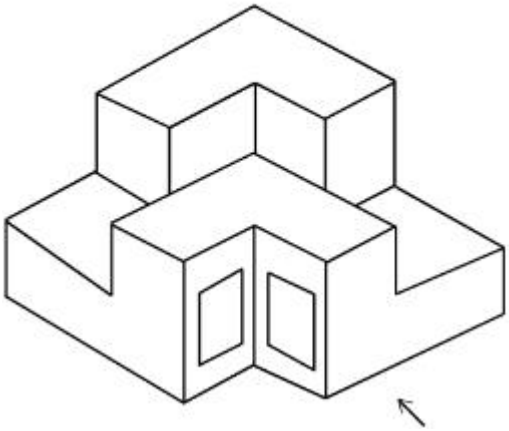
7155058337. 

7155058338. 

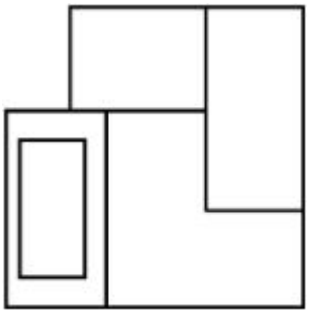
**Question Number : 72 Question Id : 7155052640 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

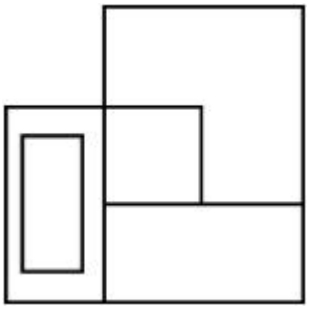
**Correct Marks : 4 Wrong Marks : 1**

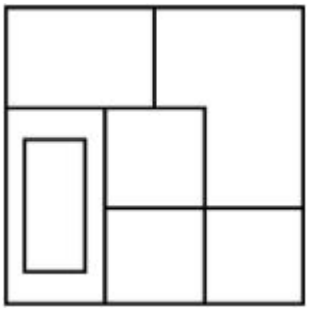
ପ୍ରଶ୍ନଚିତ୍ରରେ 3-D ଭ୍ୟୁ ଦିଆଯାଇଛି। ତୀର ଦିଗରୁ ଦେଖିଲେ ସଠିକ ଭ୍ୟୁ ହେବ:

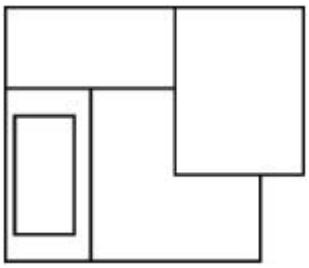


**Options :**

7155058335. 

7155058336. 

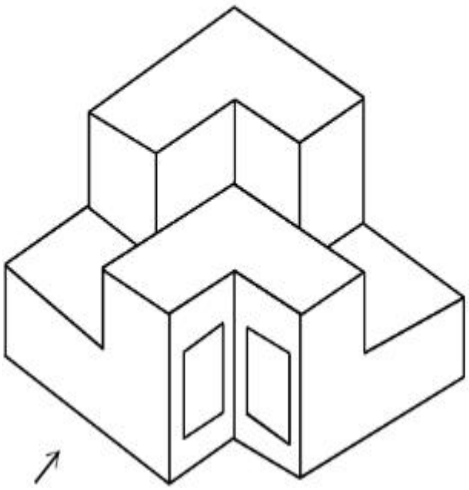
7155058337. 

7155058338. 

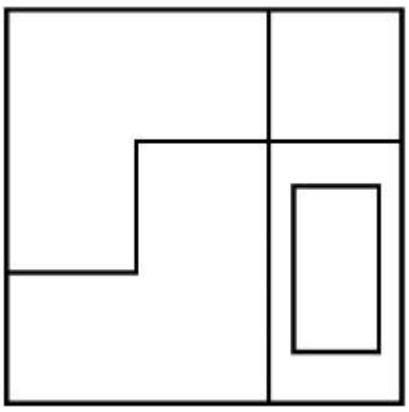
**Question Number : 73 Question Id : 7155052641 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

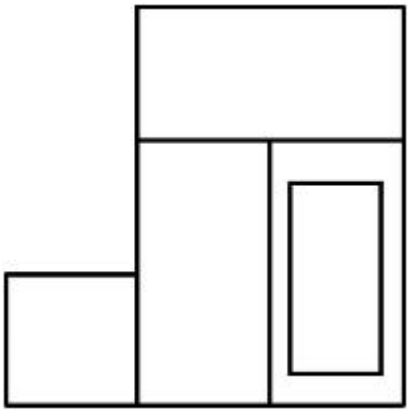
The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.

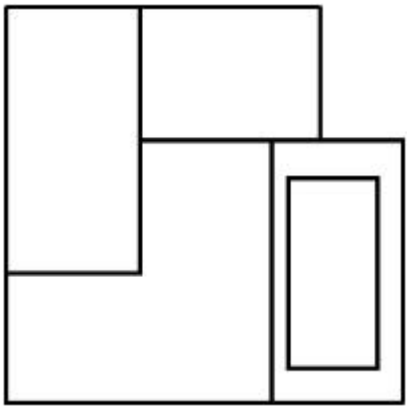


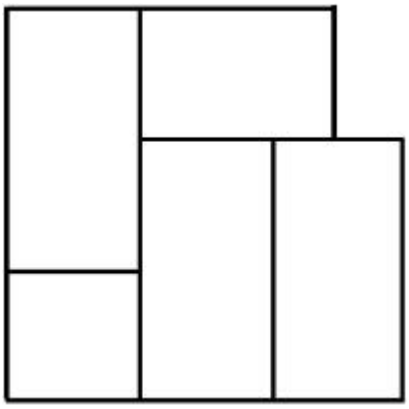
**Options :**

7155058339. 

7155058340.



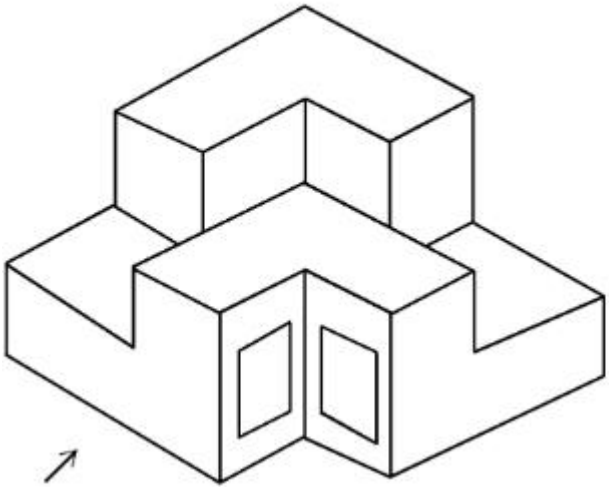
7155058341. 

7155058342. 

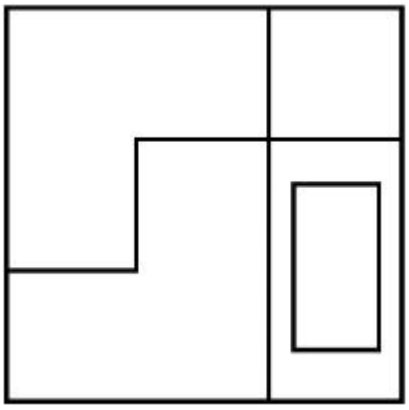
**Question Number : 73 Question Id : 7155052641 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

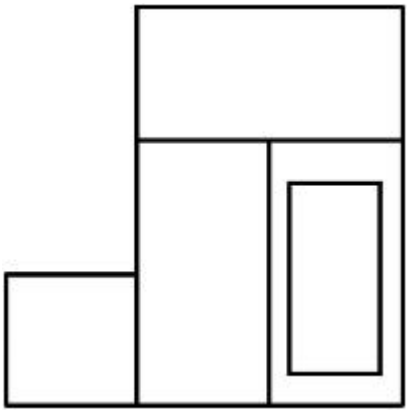
**Correct Marks : 4 Wrong Marks : 1**

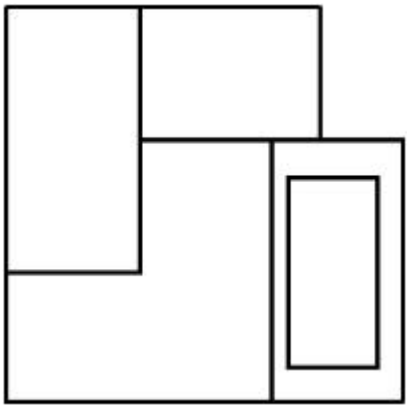
ପ୍ରଶ୍ନଚିତ୍ରରେ 3-D ଭ୍ୟୁ ଦିଆଯାଇଛି। ତୀର ଦିଗରୁ ଦେଖିଲେ ସଠିକ ଭ୍ୟୁ ହେବ:

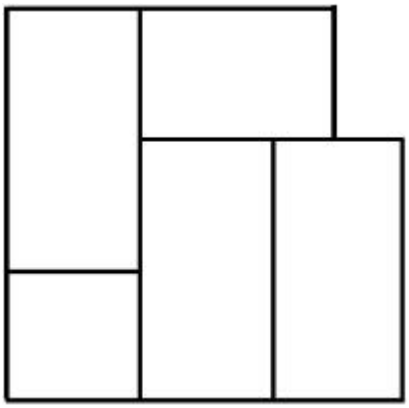


**Options :**

7155058339. 

7155058340. 

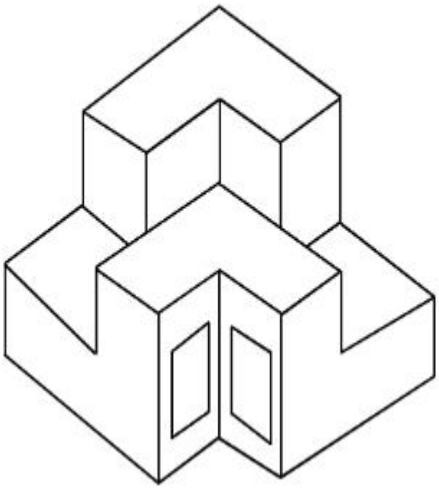
7155058341. 

7155058342. 

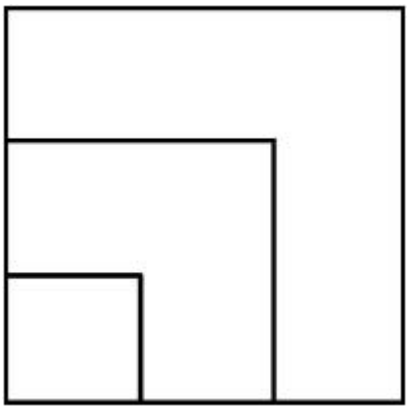
**Question Number : 74 Question Id : 7155052642 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

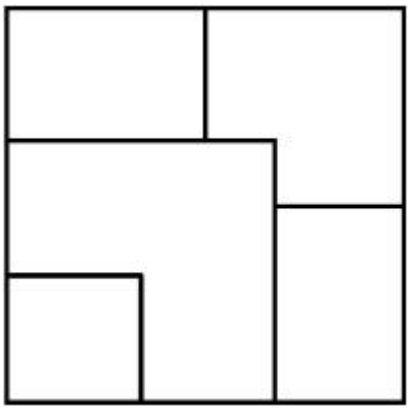
From the given options below, choose the correct plan of the 3-D object, when viewed from the top.

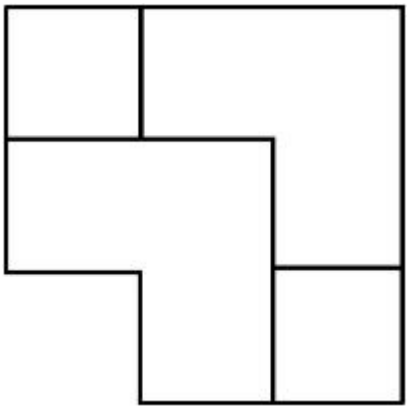


**Options :**

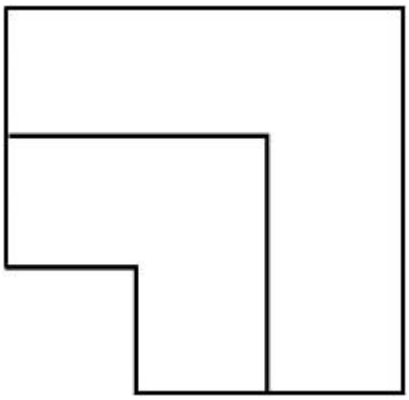
7155058343. 

7155058344.





7155058345.

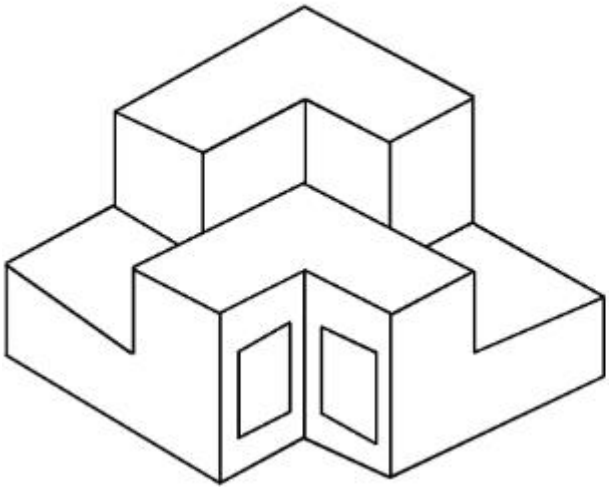


7155058346.

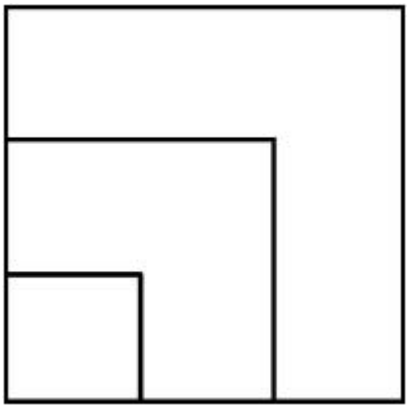
**Question Number : 74 Question Id : 7155052642 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

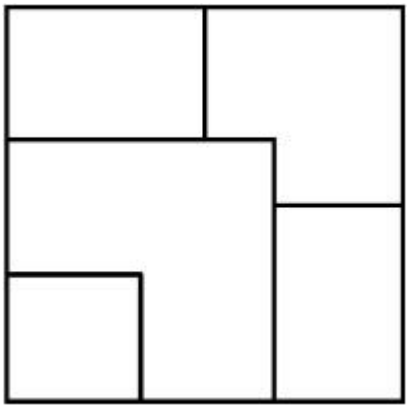
**Correct Marks : 4 Wrong Marks : 1**

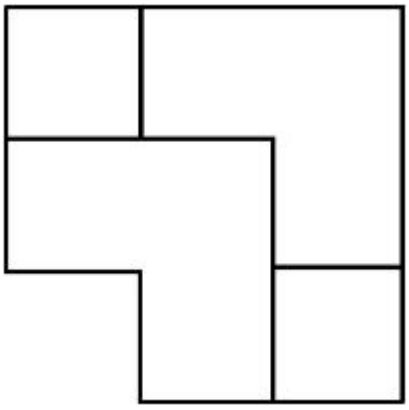
ଦିଆଯାଇଥିବା ବିକଳ୍ପ ମଧ୍ୟରୁ 3-D ବସ୍ତୁର ଉପଯୁକ୍ତ ଟପ ଭ୍ୟୁ ହେବ:

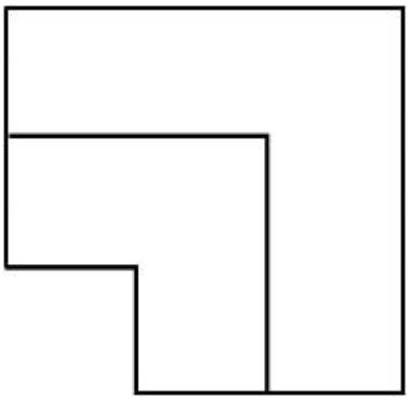


**Options :**

7155058343. 

7155058344. 

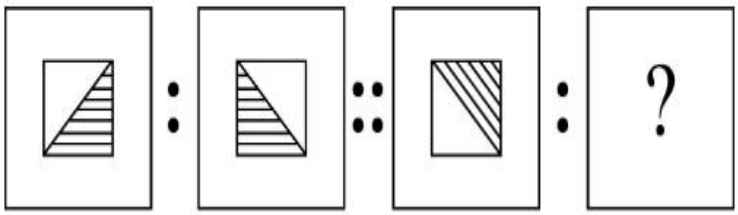
7155058345. 

7155058346. 

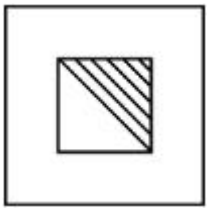
**Question Number : 75 Question Id : 7155052643 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

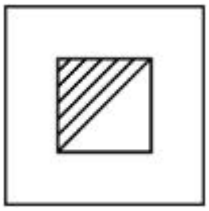
**Correct Marks : 4 Wrong Marks : 1**

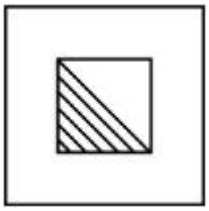
The second figure in the first part of the problem figures bears certain relationship to the first figure. Similarly, one of the figures of answer figures bears the same relationship to the first figure of the second part. Identify the correct option from the given answer figures.




**Options :**

7155058347. 

7155058348. 

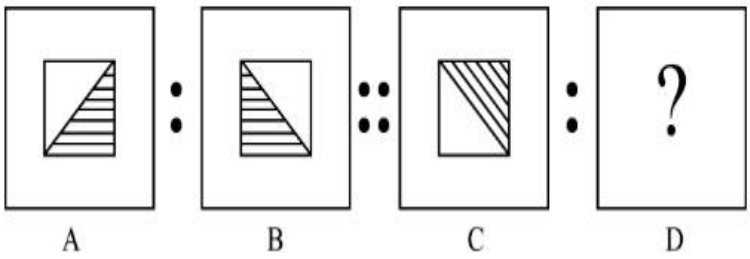
7155058349. 

7155058350. 

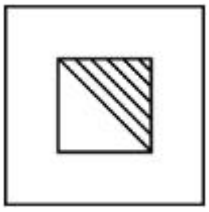
**Question Number : 75 Question Id : 7155052643 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

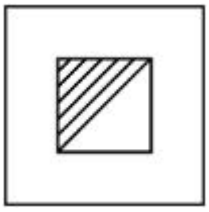
**Correct Marks : 4 Wrong Marks : 1**

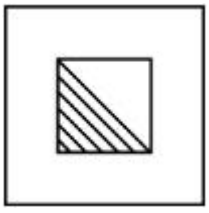
ପ୍ରଶ୍ନଚିତ୍ରରେ ଦ୍ୱିତୀୟ ଚିତ୍ରର ପ୍ରଥମ ସହ ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ସମ୍ପର୍କ ରହିଛି। ସେହିପ୍ରକାର ସମ୍ପର୍କ ଥିବା ତୃତୀୟ ପ୍ରଶ୍ନଚିତ୍ର ସହ ଉତ୍ତର ଚିତ୍ରଟି ହେଲା:




**Options :**

7155058347. 

7155058348. 

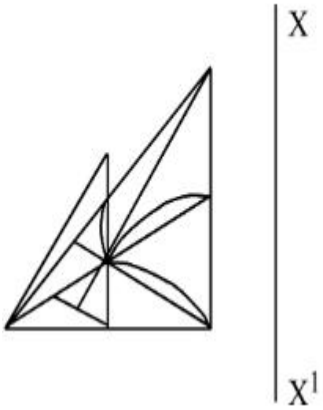
7155058349. 

7155058350.

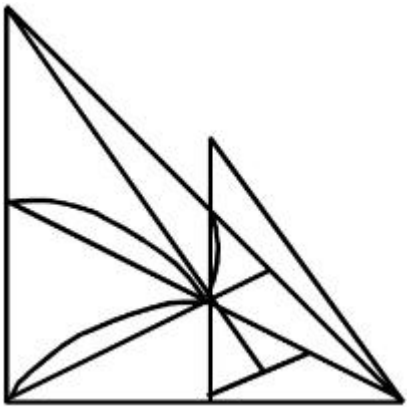
**Question Number : 76 Question Id : 7155052644 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

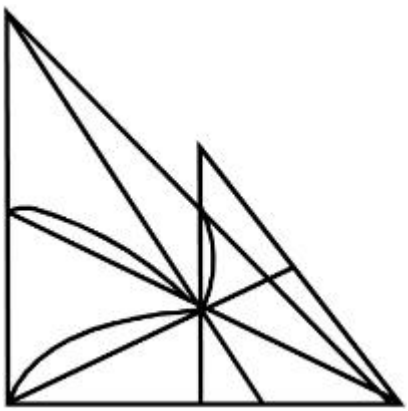
**Correct Marks : 4 Wrong Marks : 1**

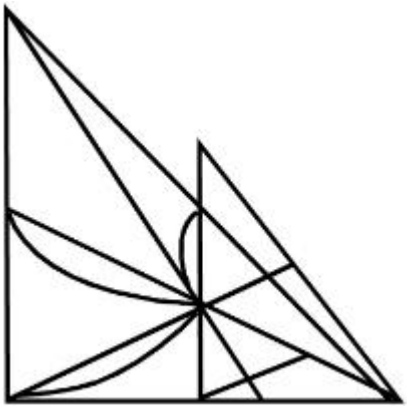
Identify the true mirror image of the figure amongst the answer figures with respect to X-X

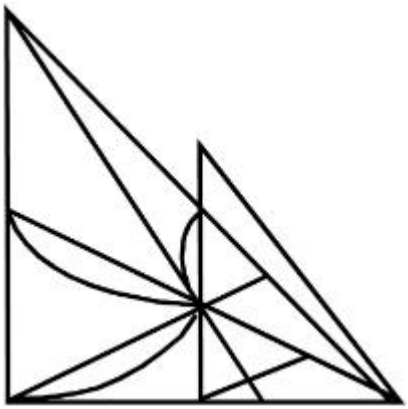



**Options :**

7155058351. 

7155058352. 

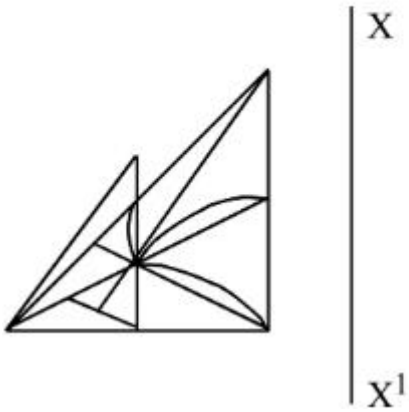
7155058353. 

7155058354. 

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

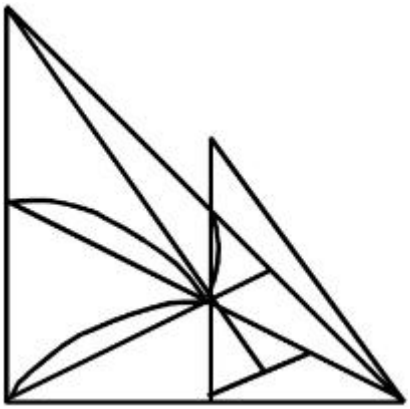
**Correct Marks : 4 Wrong Marks : 1**

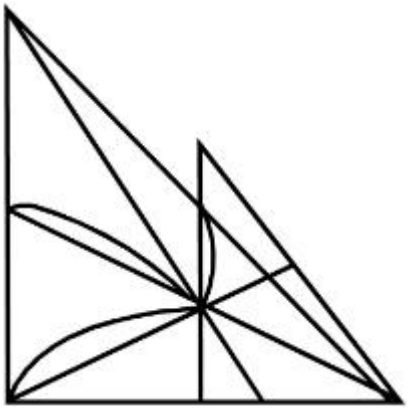
X-X ସାପେକ୍ଷରେ ସଠିକ ଦର୍ପଣ ପ୍ରତିବିମ୍ବ ହେଲା:

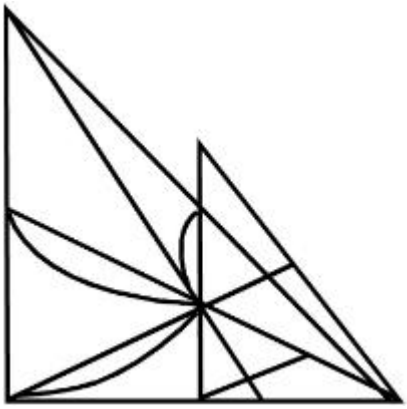


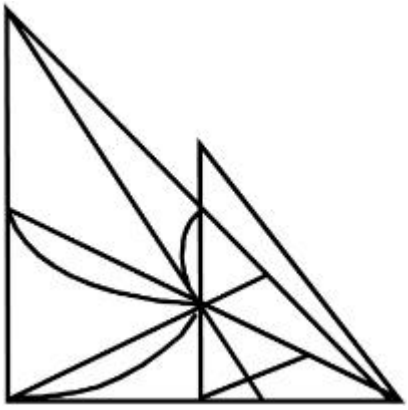

**Options :**

7155058351.



7155058352. 

7155058353. 

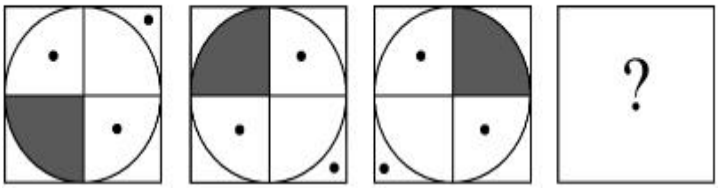
7155058354. 

**Question Number : 77 Question Id : 7155052645 Question Type : MCQ Option Shuffling : Yes Is**

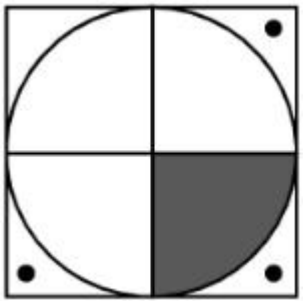
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

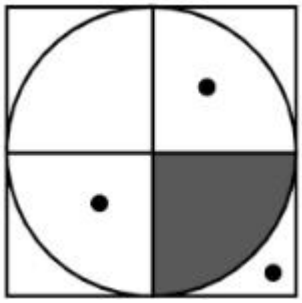
**Correct Marks : 4 Wrong Marks : 1**

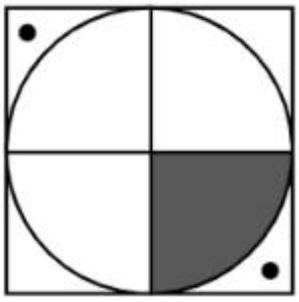
Choose the correct option amongst the answer figures which complete the series.

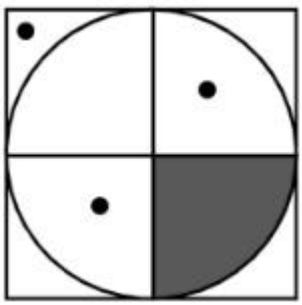



**Options :**

7155058355. 

7155058356. 

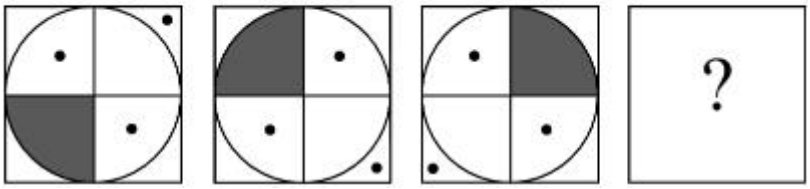
7155058357. 

7155058358. 

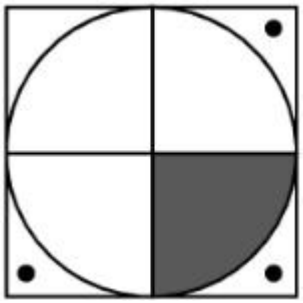
**Question Number : 77 Question Id : 7155052645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

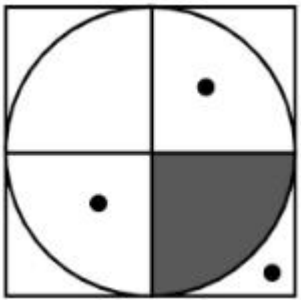
**Correct Marks : 4 Wrong Marks : 1**

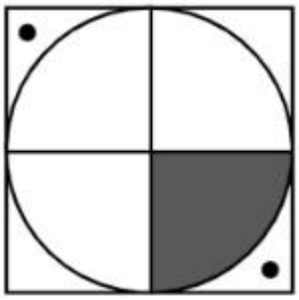
ସିରିଜକୁ ସଂପୂର୍ଣ୍ଣ କରୁଥିବା ଉତ୍ତର ଚିତ୍ରଟି ହେଲା:

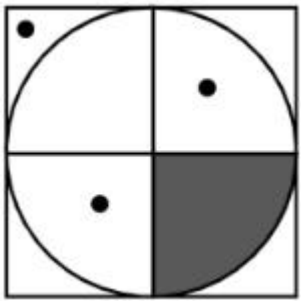



**Options :**

7155058355. 

7155058356. 

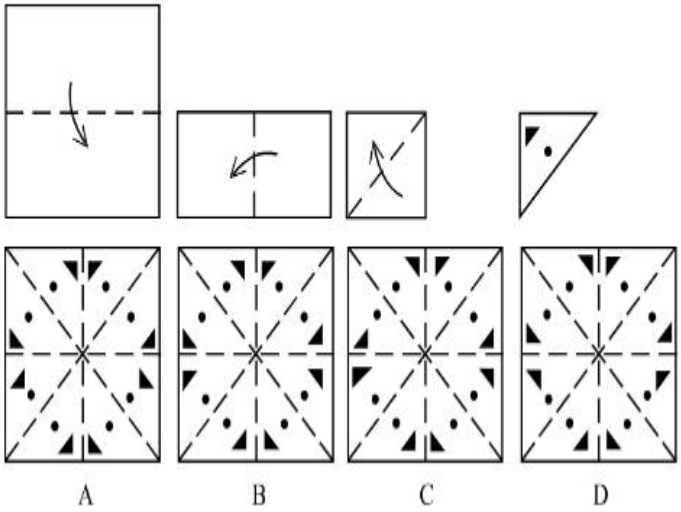
7155058357. 

7155058358. 

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

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

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




**Options :**

7155058359. B

7155058360. A

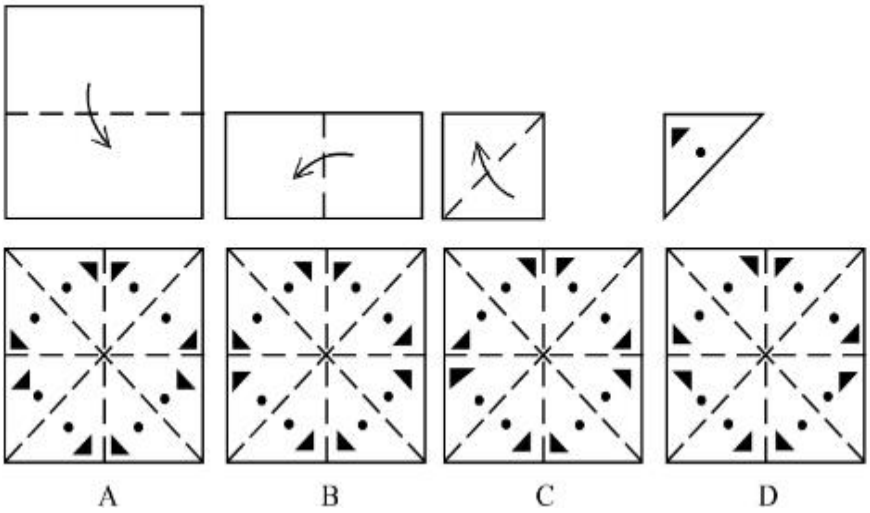
7155058361. D

7155058362. C

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

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

ପେପରକୁ ଫୋଲ୍ଡ କରାଗଲା ଦିଆଯାଇଥିବା କ୍ରମରେ ଏବଂ କଟାଗଲା। ଅନଫୋଲ୍ଡ କଲେ କେଉଁ ପ୍ୟାଟର୍ନ ମିଳିବ:




**Options :**

7155058359. B

7155058360. A

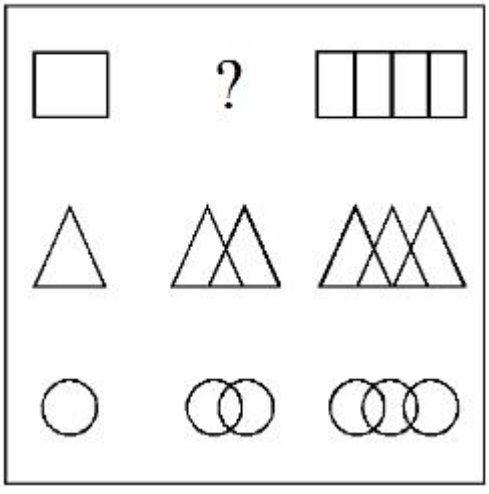
7155058361. D

7155058362. C

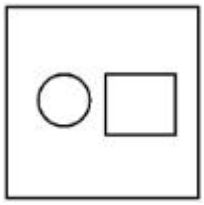
**Question Number : 79 Question Id : 7155052647 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

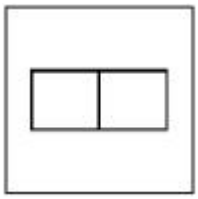
**Correct Marks : 4 Wrong Marks : 1**

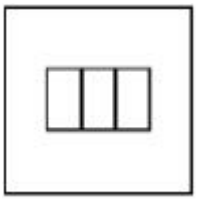
In the figure mentioned below find the missing series:-

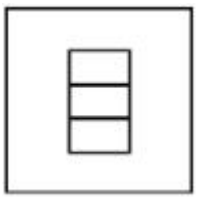


**Options :**

7155058363. 

7155058364. 

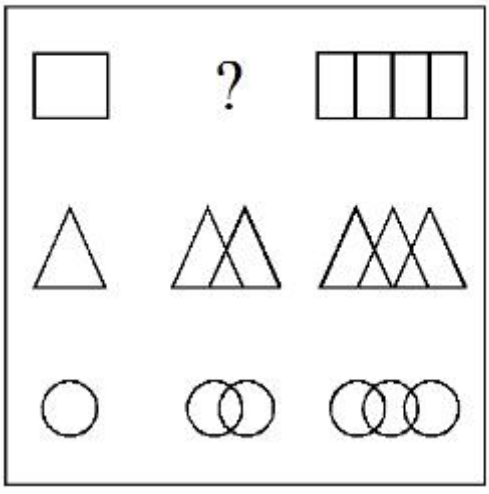
7155058365. 

7155058366. 

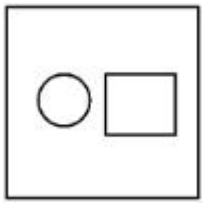
**Question Number : 79 Question Id : 7155052647 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

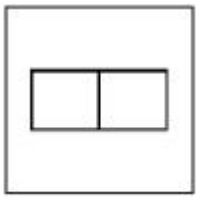
**Correct Marks : 4 Wrong Marks : 1**

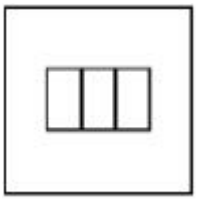
ଦିଆଯାଇଥିବା ଚିତ୍ରରୁ ମିସିଂ ସିରିଜଟି ହେଲା:

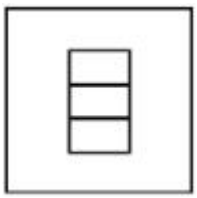


**Options :**

7155058363. 

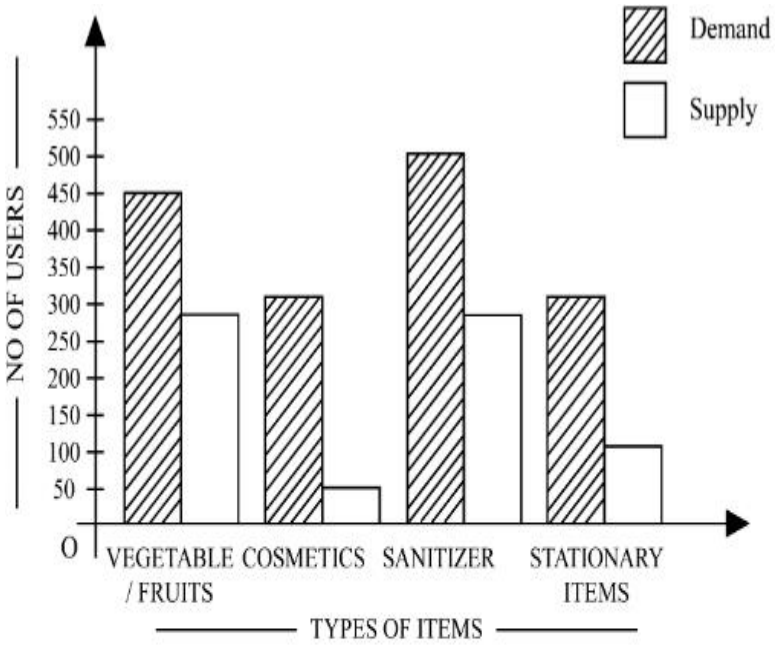
7155058364. 

7155058365. 

7155058366. 

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

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




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

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

Choose the correct answer from the options given below:-

**Options :**

7155058367. B and D only

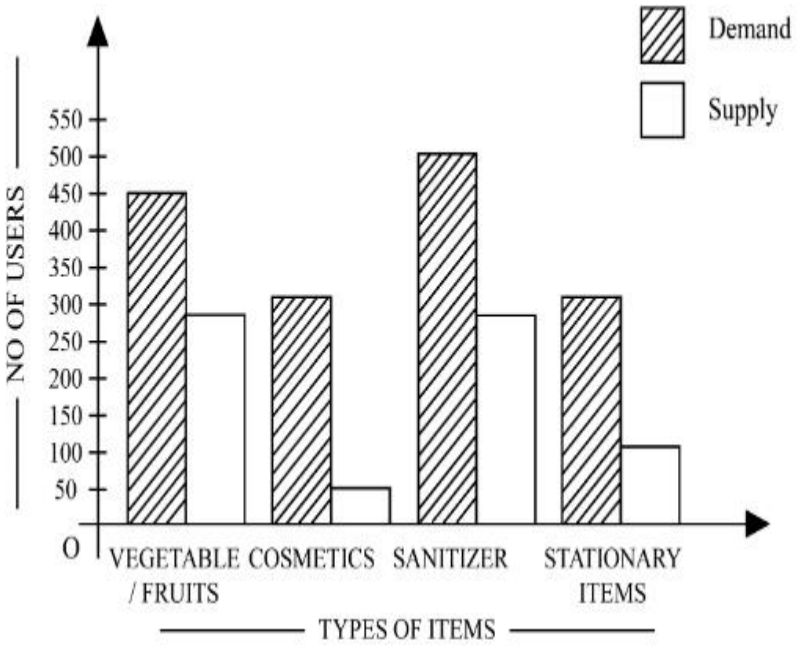
7155058368. A and B only

7155058369. A and C only

7155058370. B, C and D only

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

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




ବିଭିନ୍ନ ଆଇଟମ ପାଇଁ ସପ୍ତାହ ତଥା ଡିମାଣ୍ଡର ବିଭିନ୍ନ ଉପଭୋକ୍ତାଙ୍କ ଚିତ୍ର ଦିଆଯାଇଛି। ସେଗୁଡିକ ମଧ୍ୟରୁ କେଉଁଟି ସଠିକ?

A. ସାନିଟାଇଜର ମାତ୍ର 50% ଡିମାଣ୍ଡ ପୂରା କରୁଛି।

B. କସମେଟିକର ସପ୍ତାହ ସବୁଠୁ କମ ଅଟେ।

C. ସବୁ ମଧ୍ୟରୁ ଦୁଇ ଆଇଟମର ଡିମାଣ୍ଡ ଏକ ସମାନ ମାତ୍ର ସପ୍ତାହ ଭିନ୍ନ।

D. ସବୁ ମଧ୍ୟରୁ ଦୁଇ ଆଇଟମର ଡିମାଣ୍ଡ ସମାନ ତଥା ଡିମାଣ୍ଡ ମଧ୍ୟ ସମାନ।

ନିମ୍ନରେ ପ୍ରଦତ୍ତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଉତ୍ତର ବାଛନ୍ତୁ:

**Options :**

7155058367. କେବଳ B ଏବଂ D

7155058368. କେବଳ A ଏବଂ B

7155058369. କେବଳ A ଏବଂ C

7155058370. କେବଳ B, C ଏବଂ D

# Drawing

**Section Id :** 715505162

**Section Number :** 4

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

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

**Correct Marks : 50**

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

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

**Correct Marks : 50**

ପ୍ରଦତ୍ତ ଚିତ୍ରର ପ୍ରପୋସିଓନେଟ ଚିତ୍ର ଅଙ୍କନ କର । ତୁମ ପସନ୍ଦର କଳା ଧଳା ରେଣ୍ଡରିଙ୍ଗ କୌଶଳ ବ୍ୟବହାର କର ।

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

**Correct Marks : 50**

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

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

**Correct Marks : 50**

ମଟର ସାଇକେଲର ସାଧାରଣ 2D ଆକାର ବ୍ୟବହାର କର ଏବଂ ତୁମର ପସନ୍ଦର ଯେକୌଣସି ତିନୋଟି ରଙ୍ଗ ବ୍ୟବହାର କରି ତୁମ ପସନ୍ଦିତ ଏକ ଆକର୍ଷଣୀୟ 2D ସଂରଚନା ବ କମ୍ପୋଜିସନ ଗଠନ କର ।