

# National Testing Agency

<b>Question Paper Name :</b>	B PLANNING 28th Jan 2023 Shift 2
<b>Subject Name :</b>	B PLANNING
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<b>Duration :</b>	180
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<b>Display Marks:</b>	Yes

## B PLANNING

<b>Group Number :</b>	1
<b>Group Id :</b>	71550528
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	400
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## Mathematics Section A

<b>Section Id :</b>	715505155
<b>Section Number :</b>	1

<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	715505155
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 7155052464 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057691.  $R_1$  is transitive but  $R_2$  is not transitive

7155057692.  $R_2$  is transitive but  $R_1$  is not transitive

7155057693. Both  $R_1$  and  $R_2$  are transitive

7155057694. Neither  $R_1$  nor  $R_2$  is transitive

Question Number : 1 Question Id : 7155052464 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ધારો કે  $R_1$  અને  $R_2$  એ  $\mathbb{R}^2$  પર વ્યાખ્યાયિત બે સંબંધો છે જેથી તો :

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

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

Options :

7155057691.  $R_1$  પરંપરિત છે પરંતુ  $R_2$  પરંપરિત નથી.

7155057692.  $R_2$  પરંપરિત છે પરંતુ  $R_1$  પરંપરિત નથી.

7155057693.  $R_1$  અને  $R_2$  બંને પરંપરિત છે.

7155057694.  $R_1$  કે  $R_2$  કોઈપણ પરંપરિત નથી.

Question Number : 2 Question Id : 7155052465 Question Type : MCQ Option Shuffling : Yes 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 :

7155057695. 1

7155057696.  $\frac{1}{9}$

7155057697. 3

7155057698. 9

**Question Number : 2 Question Id : 7155052465 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ધારો કે  $\alpha$  અને  $\beta$  એ બહુપદી  $x^2 - 3x + 9 = 0$ . નાં બે બીજા છે. તો  $\left( \frac{\beta^{30}}{(9\alpha)^{10}} + \frac{\alpha^{30}}{(9\beta)^{10}} \right)^2 = \underline{\hspace{2cm}}$ .

**Options :**

7155057695. 1

7155057696.  $\frac{1}{9}$

7155057697. 3

7155057698. 9

**Question Number : 3 Question Id : 7155052466 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057699. 1153

7155057700. 947

7155057701. 537

7155057702. 837

**Question Number : 3 Question Id : 7155052466 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

$z = 2 + 5i$  માટે,  $2z^3 + 21z^2 - 58z + 4$  નો મૂલ્ય \_\_\_\_\_ છે.

**Options :**

7155057699. 1153

7155057700. 947

7155057701. 537

7155057702. 837

**Question Number : 4 Question Id : 7155052467 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057703. 27

7155057704.  $\frac{1}{3}$

7155057705. 9

7155057706. 3

**Question Number : 4 Question Id : 7155052467 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

જો સમીકરણ સંહિતિ

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

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

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

ને અસંખ્યા ઉકેલો હોય, તો  $k^2 =$  \_\_\_\_\_.

**Options :**

7155057703. 27

7155057704.  $\frac{1}{3}$

7155057705. 9

7155057706. 3

**Question Number : 5 Question Id : 7155052468 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057707.  $2\sqrt{3}$

7155057708.  $2\sqrt{2}$

7155057709. 4

7155057710. 2

**Question Number : 5 Question Id : 7155052468 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

$\alpha, \beta \in \mathbb{R}$  માટે, જો શ્રેણિકો  $A = \begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}$ ,  $B = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$  અને  $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$  એ સમીકરણ  $(A*B)*2I = 20I$  નું સમાધાન કરે, જ્યાં  $*$  એ  $A*B = A^2 + B^2$  વડે વ્યાખ્યાયિત હોય, તો  $|\alpha\beta|$  \_\_\_\_\_.

**Options :**

7155057707.  $2\sqrt{3}$

7155057708.  $2\sqrt{2}$

7155057709. 4

7155057710. 2

Question Number : 6 Question Id : 7155052469 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

Options :

7155057711.  $\frac{61}{133}$

7155057712.  $\frac{66}{133}$

7155057713.  $\frac{16}{33}$

7155057714.  $\frac{33}{67}$

Question Number : 6 Question Id : 7155052469 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

શ્રેણી  $\frac{1}{1+1^2+1^4} + \frac{2}{1+2^2+2^4} + \frac{3}{1+3^2+3^4} + \dots$  નાં પ્રથમ અઘ્યાર પદોનો સરવાળો \_\_\_\_\_ છે.

Options :

7155057711.  $\frac{61}{133}$

7155057712.  $\frac{66}{133}$

7155057713.  $\frac{16}{33}$



**Question Number : 7 Question Id : 7155052470 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

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

**Options :**

7155057715. e

7155057716.  $e^3$

7155057717.  $e^6$

7155057718.  $e^9$

**Question Number : 7 Question Id : 7155052470 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

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

**Options :**

7155057715. e

7155057716.  $e^3$

7155057717.  $e^6$

7155057718. e<sup>9</sup>

**Question Number : 8 Question Id : 7155052471 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057719. 90

7155057720. 180

7155057721. 360

7155057722. 270

**Question Number : 8 Question Id : 7155052471 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ધારો કે  $P(\alpha, \beta, \lambda)$  એ બિંદુ  $Q(1, 2, 0)$  નું રેખા  $\frac{x-5}{3} = \frac{y-12}{1} = \frac{z-10}{2}$  પરનું પ્રતિબિંબ છે. તો  $(PQ)^2 =$  \_\_\_\_\_ .

**Options :**

7155057719. 90

7155057720. 180

7155057721. 360

7155057722. 270

**Question Number : 9 Question Id : 7155052472 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057723. 8820

7155057724. 10584

7155057725. 1764

7155057726. 3515

**Question Number : 9 Question Id : 7155052472 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

એક પેટીમાં 7 લાલ અને 9 સફેદ દડાઓ છે. 8 કાઢવામાં આવે ત્યારે ઓછામાં ઓછા ત્રણ દડા પ્રત્યેક રંગના હોય તેવી રીતો ની સંખ્યા \_\_\_\_\_ છે.

**Options :**

7155057723. 8820

7155057724. 10584

7155057725. 1764

7155057726. 3515

**Question Number : 10 Question Id : 7155052473 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057727. 19

7155057728. -19

7155057729. 18

7155057730. -21

**Question Number : 10 Question Id : 7155052473 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ધારો કે  $[t]$  એ મહત્તમ પૂર્ણાંક વિધેય દર્શાવે છે. જો  $\int_0^1 [1+x^2+x^4] dx = a$ , હોય, તો  $36a - 25a^2 + 8a^3 - a^4$

**Options :**

7155057727. 19

7155057728. -19

7155057729. 18

7155057730. -21

**Question Number : 11 Question Id : 7155052474 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057731.  $\sqrt{2}$

7155057732. 2

7155057733.  $2\sqrt{2}$

7155057734. 4

**Question Number : 11 Question Id : 7155052474 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ધારોકે  $PL = 8$  એકમ અને  $QM = 2$  એકમ એ બે એવા સમાંતર રેખા ખંડો છે, કે જેથી રેખા ખંડો  $PM$  અને  $QL$  એ બિંદુ  $R$  પર છેદે છે. જો  $PL$  અને  $QM$ , એ બિંદુઓ  $P, Q, R$  માંથી પસાર થતા વર્તુળ નાં સ્પર્શકો હોય; તો આ વર્તુળની ત્રિજ્યા \_\_\_\_\_ છે.

**Options :**

7155057731.  $\sqrt{2}$

7155057732. 2

7155057733.  $2\sqrt{2}$

7155057734. 4

**Question Number : 12 Question Id : 7155052475 Question Type : MCQ Option Shuffling : Yes 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  $a \in \mathbb{N}$ , let PQR be a triangle with two fixed vertices P(2, 5) and Q(a, -11). If the point R moves on the line  $l_1: 9x + 7y + a = 0$ , 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 :**

7155057735. 117

7155057736. 129

7155057737. 131

7155057738. 133

**Question Number : 12 Question Id : 7155052475 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

કોઈક  $a \in \mathbb{N}$ , માટે, ધારો કે PQR એ બે નિશ્ચિત શિરોબિંદુઓ P(2, 5) અને Q(a, -11) વાળો એક ત્રિકોણ છે. જો બિંદુ R એ રેખા  $l_1: 9x + 7y + a = 0$  પર ખસે, તો  $\Delta PQR$  નું મધ્યકેન્દ્ર એ  $l_1$  થી  $\frac{20}{3\sqrt{130}}$  એકમ અંતરે સમાંતર હોય તેવી રેખા  $l_2$  પર ખસે છે. જો  $l_2$  થી બિંદુ Q નું અંતર  $\frac{k}{3\sqrt{130}}$  હોય, તો k નું મૂલ્ય \_\_\_\_\_ છે.

**Options :**

7155057735. 117

7155057736. 129

7155057737. 131

7155057738. 133

**Question Number : 13 Question Id : 7155052476 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

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

**Options :**

7155057739. 12

7155057740. 30

7155057741. 24

7155057742. 48

**Question Number : 13 Question Id : 7155052476 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

ધારો કે  $A_i(x_i, y_i)$ ,  $i=1,2,3$  એ વર્તુળ  $x^2+y^2=10$  પરના એવા બિંદુઓ છે કે જેથી  $A_1$  પ્રથમ ચરણમાં આવેલ છે અને તે, બિંદુ  $A_2$  નું  $y$ - અક્ષને સાપેક્ષ પ્રતિબિંબ છે. જો બિંદુઓ  $A_2$  અને  $A_3$  પૈકીના દરેક થી બિંદુ  $A_1$  નું અંતર 2 હોય, તો  $\Delta A_1A_2A_3$  નાં ક્ષેત્રફળ નું 20 ઘણું \_\_\_\_\_ થશે.

**Options :**

7155057739. 12

7155057740. 30

7155057741. 24

7155057742. 48

**Question Number : 14 Question Id : 7155052477 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057743. 5

7155057744. 7

7155057745. 9

7155057746. 11

**Question Number : 14 Question Id : 7155052477 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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



7<sup>89</sup> ને 15 વડે ભાગતાં મળતી શેષ \_\_\_\_\_ છે .

**Options :**

7155057743. 5

7155057744. 7

7155057745. 9

7155057746. 11

**Question Number : 15 Question Id : 7155052478 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057747. 5

7155057748. 13

7155057749. 19

7155057750. 27

**Question Number : 15 Question Id : 7155052478 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

જો બિંદુ(1, -1, 3) માંથી પસાર થતું સમતલ  $y = \alpha x - \beta y + \gamma z$  એ, સમતલો  $2x + y + z = 1$  અને  $3x - 2y + 2z = 0$  બંને ને લંબ હોય, તો  $\alpha + \beta + \gamma =$  \_\_\_\_\_.

**Options :**

7155057747. 5

7155057748. 13

7155057749. 19

7155057750. 27

**Question Number : 16 Question Id : 7155052479 Question Type : MCQ Option Shuffling : Yes 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  $\vec{r} \times \vec{a} = (\vec{b} + \vec{c}) \times \vec{a}$  and  $\vec{r} \cdot (\vec{b} - \vec{c}) = 0$ , then  $\vec{r} \cdot (\hat{i} + \hat{j} - \hat{k})$  is equal to :

**Options :**

7155057751. 3

7155057752. 4

7155057753. 5

7155057754. 6

**Question Number : 16 Question Id : 7155052479 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ધારો કે  $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$ ,  $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$ ,  $\vec{c} = 2\hat{i} + \hat{j} - 4\hat{k}$  એ ત્રણ સદિશો છે. જો  $\vec{r}$  એ એવો સદિશ હોય કે જેથી  $\vec{r} \times \vec{a} = (\vec{b} + \vec{c}) \times \vec{a}$  અને  $\vec{r} \cdot (\vec{b} - \vec{c}) = 0$  હોય, તો  $\vec{r} \cdot (\hat{i} + \hat{j} - \hat{k}) = \underline{\hspace{2cm}}$ .

**Options :**

7155057751. 3

7155057752. 4

7155057753. 5

7155057754. 6

**Question Number : 17 Question Id : 7155052480 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

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

**Options :**

7155057755. 0

7155057756.  $\frac{1}{59}$

7155057757.  $\frac{3}{59}$

7155057758.  $\frac{7}{118}$

**Question Number : 17 Question Id : 7155052480 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

સમીકરણ  $1 + x + x^2 + \dots + x^{118} = 0$  નું એક યાદચ્છિક રીતે પસંદ કરેલ બીજ, સમીકરણ  $x^7 = 1$  નું સમાધાન કરે, તેની સંભાવના \_\_\_\_\_ છે.

**Options :**

7155057755. 0

7155057756.  $\frac{1}{59}$

7155057757.  $\frac{3}{59}$

7155057758.  $\frac{7}{118}$

**Question Number : 18 Question Id : 7155052481 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057759.  $\frac{29 \times 2^8}{3^9}$

7155057760.  $\frac{25 \times 2^9}{3^9}$

7155057761.  $\frac{163}{3^9}$

7155057762.  $\frac{835}{3^9}$

**Question Number : 18 Question Id : 7155052481 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ધારો કે X નું દ્વિપદી વિતરણ  $B(n, p)$  છે. જો તેનું મધ્યક 3 અને વિચરણ 2 હોય, તો  $P(X < \frac{n}{4}) =$

\_\_\_\_\_.

**Options :**

7155057759.  $\frac{29 \times 2^8}{3^9}$

7155057760.  $\frac{25 \times 2^9}{3^9}$

7155057761.  $\frac{163}{3^9}$

7155057762.  $\frac{835}{3^9}$

**Question Number : 19 Question Id : 7155052482 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057763.  $\left(\sqrt{2}-1, \frac{3}{5}\right]$

7155057764.

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

$$7155057765. \mathbb{R} - \{-\sqrt{2} - 1, \sqrt{2} - 1\}$$

$$7155057766. (-\infty, -1 - \sqrt{2}) \cup (\sqrt{2} - 1, \infty)$$

**Question Number : 19 Question Id : 7155052482 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

વિધેય  $f(x) = \cos^{-1}\left(\frac{x^2 - 3x + 2}{x^2 + 2x - 1}\right)$  નો પ્રદેશ \_\_\_\_\_ છે.

**Options :**

$$7155057763. \left(\sqrt{2} - 1, \frac{3}{5}\right]$$

$$7155057764. \left[\frac{3}{5}, \infty\right)$$

$$7155057765. \mathbb{R} - \{-\sqrt{2} - 1, \sqrt{2} - 1\}$$

$$7155057766. (-\infty, -1 - \sqrt{2}) \cup (\sqrt{2} - 1, \infty)$$

**Question Number : 20 Question Id : 7155052483 Question Type : MCQ Option Shuffling : Yes 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 :**

$$7155057767. ((p \Rightarrow q) \vee p) \Rightarrow q$$

7155057768.  $((p \wedge q) \Rightarrow p) \Rightarrow q$

7155057769.  $((p \wedge q) \wedge (\sim q)) \Rightarrow p$

7155057770.  $((p \Rightarrow q) \vee p) \Rightarrow p$

**Question Number : 20 Question Id : 7155052483 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચેના વિધાનો પૈકી કયું નિત્યસત્ય છે ?

**Options :**

7155057767.  $((p \Rightarrow q) \vee p) \Rightarrow q$

7155057768.  $((p \wedge q) \Rightarrow p) \Rightarrow q$

7155057769.  $((p \wedge q) \wedge (\sim q)) \Rightarrow p$

7155057770.  $((p \Rightarrow q) \vee p) \Rightarrow p$

## Mathematics Section B

<b>Section Id :</b>	715505156
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	5
<b>Section Marks :</b>	20

**Enable Mark as Answered Mark for Review and**

Yes

**Clear Response :**

**Maximum Instruction Time :**

0

**Sub-Section Number :**

1

**Sub-Section Id :**

715505156

**Question Shuffling Allowed :**

Yes

**Is Section Default? :**

null

**Question Number : 21 Question Id : 7155052484 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 : 7155052484 Question Type : SA Calculator : None**

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

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

વક્ર  $y = x^2 + 1$  એ વક્રો  $y + |x| = 3$  અને  $y = |x-1|$  દ્વારા ઘેરાયેલ ક્ષેત્રનું  $m:n$  ના ગુણોત્તરમાં વિભાજન કરે છે, જ્યાં  $m$  અને  $n$  પરસ્પર અવિભાજ્ય છે. તો  $m+n =$  \_\_\_\_\_ .

**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 : 7155052485 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 : 7155052485 Question Type : SA Calculator : None**

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

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

પ્રત્યેક વિદ્યાર્થીને ઓછામાં ઓછી એક પેન મળે. અને બરાબર બે વિદ્યાર્થીઓ ને ઓછામાં ઓછા બે પેન મળે તે રીતે 30 એકસમાન પેનને 12 વિદ્યાર્થીઓમાં વહેંચી શકાય તેવી રીતોની સંખ્યા \_\_\_\_\_ છે.

**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 : 7155052486 Question Type : SA Calculator : None**

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number : 23 Question Id : 7155052486 Question Type : SA Calculator : None**

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number : 24 Question Id : 7155052487 Question Type : SA Calculator : None**

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

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number :** 24 **Question Id :** 7155052487 **Question Type :** SA **Calculator :** None

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

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

જો  $S_n$  એ શ્રેણી  $7+10+16+25+37+\dots$  ના પ્રથમ  $n$  પદોનો સરવાળો દર્શાવે, તો  $S_{30}-S_{20} = \underline{\hspace{2cm}}$ .

**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 :** 7155052488 **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  $\underline{\hspace{2cm}}$ .

**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 : 7155052488 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

જો  $[t]$  એ મહત્તમ પૂર્ણાંક  $\leq t$  દર્શાવે, તો વિવૃત્ત અંતરાલ  $(-10, 10)$  માં વિધેય  $f(x) = [x+x^3] + |x-x^3| + \left|x + \frac{1}{2}\right|$  જ્યાં વિકલનીય ન હોય તેવા બિંદુઓની સંખ્યા \_\_\_\_\_ છે.

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 : 7155052489 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 : 7155052489 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

જો  $\int \frac{dx}{(3x^2+5)\sqrt{10x^2+7}} = -\frac{1}{\sqrt{580}} \log_e |f(x)| + C$  જ્યાં C સ્વૈર અચળ છે, તો  $f(0) =$  \_\_\_\_\_ .

**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 :** 7155052490 **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 :** 7155052490 **Question Type :** SA **Calculator :** None

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

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

જેની નાભિઓ  $(1, 5)$ ,  $(1, -1)$  અને ઉત્કેન્દ્રતા  $\sqrt{3}$  હોય તેવા અતિવલયનું સમીકરણ  $x^2 - 2y^2 + ax + by + c = 0$  છે. તો  $|a + b + c| =$  \_\_\_\_\_.

**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 : 7155052491 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  $a$  such that the distance between the point  $(2, 4, 3)$  and the plane  $3x + y + az + 10 = 0$  is  $\sqrt{35}$  units. Then the area of the triangle with vertices  $(\alpha_1, \alpha_2, 0)$ ,  $(\alpha_2, \alpha_1, 0)$  and  $(\frac{164}{13}, 5, 0)$  is \_\_\_\_\_ unit<sup>2</sup>.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

10 to 12

**Question Number : 28 Question Id : 7155052491 Question Type : SA Calculator : None**

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

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

ધારો કે  $\alpha_1, \alpha_2$  એ  $a$  ની એવી કિંમતો છે કે જેથી બિંદુ  $(2, 4, 3)$  અને સમતલ  $3x + y + az + 10 = 0$  વચ્ચેનું અંતર  $\sqrt{35}$  એકમ થાય. તો જેના શિરોબિંદુઓ  $(\alpha_1, \alpha_2, 0)$ ,  $(\alpha_2, \alpha_1, 0)$  અને  $(\frac{164}{13}, 5, 0)$  હોય તેવા ત્રિકોણનું ક્ષેત્રફળ \_\_\_\_\_ એકમ<sup>2</sup> છે.

**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 : 7155052492 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

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

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

10 to 12

Question Number : 29 Question Id : 7155052492 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

ધારો કે O ઉગમબિંદુ છે અને સદિશો  $\overrightarrow{OA} = -3\hat{i} + 7\hat{j} + 5\hat{k}$ ,  $\overrightarrow{OB} = -5\hat{i} + 7\hat{j} - 3\hat{k}$  એ  $\overrightarrow{OC} = \hat{u}$  એ એક સમાંતર ફલકની ત્રણ બાજુઓ દર્શાવે છે, જ્યાં  $\hat{u}$  એ  $xy$  સમતલમાં એક એકમ સદિશ છે. જો આ સમાંતર ફલકનું મહત્તમ ઘનફળ  $2\sqrt{\alpha}$  હોય, તો  $\alpha =$  \_\_\_\_\_.

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 : 7155052493 Question Type : SA Calculator : None

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

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

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

**Response Type : Numeric**

**Evaluation Required For SA : Yes**

**Show Word Count : Yes**

**Answers Type : Range**

**Text Areas : PlainText**

**Possible Answers :**

10 to 12

**Question Number : 30 Question Id : 7155052493 Question Type : SA Calculator : None**

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

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

જો વિકલ સમીકરણ  $\frac{x+y-2}{x+y-1} \frac{dy}{dx} = \frac{x+y+2}{x+y+1}$ ,  $x+y > 2$  નો ઉકેલ વક્ર બિંદુઓ  $(\sqrt{2}, \sqrt{2})$  અને  $(2, \alpha)$  માંથી પસાર થાય, તો  $2\alpha - \log_e\left(\frac{\alpha^2 + 4\alpha + 2}{6}\right) =$  \_\_\_\_\_.

**Response Type : Numeric**

**Evaluation Required For SA : Yes**

**Show Word Count : Yes**

**Answers Type : Range**

**Text Areas : PlainText**

**Possible Answers :**

10 to 12



**Section Id :** 715505157  
**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 :** 715505157  
**Question Shuffling Allowed :** Yes  
**Is Section Default? :** null

**Question Number : 31 Question Id : 7155052494 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057781. Type of cement

7155057782. Type of floor finish

7155057783. Type of paint

7155057784. Type of Brick

**Question Number : 31 Question Id : 7155052494 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

એડોબ એ

**Options :**

7155057781. સિમેન્ટનો પ્રકાર

7155057782. ફ્લોર ફિનીશનો પ્રકાર

7155057783. રંગનો પ્રકાર

7155057784. ઈંટનો પ્રકાર

**Question Number : 32 Question Id : 7155052495 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057785. Both Statement I and Statement II are correct

7155057786. Both Statement I and Statement II are incorrect

7155057787. Statement I is correct but statement II is incorrect

7155057788. Statement I is incorrect but statement II is correct

**Question Number : 32 Question Id : 7155052495 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે બે વિધાનો આપેલા છે.

**વિધાન I :** ચંદીગઢ એ સ્વતંત્ર ભારતું સૌ પ્રથમ આયોજીત શહેર છે.

**વિધાન II :** ચંદીગઢ શહેરની રૂપરેખા સ્વીઝ-ફ્રેન્ચ યોજકે ઘડી છે.

ઉપર આપેલા વિધાનો માટે નીચે આપેલા જવાબ માંથી યોગ્ય જવાબ આપો.

**Options :**

7155057785. બંને વિધાન I અને વિધાન II સાચા છે.

7155057786. બંને વિધાન I અને વિધાન II ખોટા છે.

7155057787. વિધાન I સાચું છે. પણ વિધાન II ખોટું છે.

7155057788. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

**Question Number : 33 Question Id : 7155052496 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057789. Both Statement I and Statement II are correct

7155057790. Both Statement I and Statement II are incorrect

7155057791. Statement I is correct but statement II is incorrect

7155057792. Statement I is incorrect but statement II is correct

**Question Number : 33 Question Id : 7155052496 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે આપેલા બે વિધાનો છે.

**વિધાનો I :** કાંચ નીચી ઉષ્મા વાહકતા ધરાવે છે.

**વિધાનો II :** કાંચ પ્રકાશને શોષે છે, પ્રત્યાવર્તન (refract) અને પરિવહન કરે છે.

ઉપર આપેલા વિધાનોની દૃષ્ટિએ નીચે આપેલા વિકલ્પો માંથી યોગ્ય જવાબ પસંદ કરો.

**Options :**

7155057789. બંને વિધાન I અને વિધાન II સાચા છે.

7155057790. બંને વિધાન I અને વિધાન II ખોટા છે.

7155057791. વિધાન I સાચું છે. પણ વિધાન II ખોટું છે.

7155057792. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

**Question Number : 34 Question Id : 7155052497 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057793. A-I, B-III, C-II, D-IV

7155057794. A-III, B-IV, C-I, D-II

7155057795. A-IV, B-II, C-III, D-I

7155057796. A-IV, B-III, C-I, D-II

**Question Number : 34 Question Id : 7155052497 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ II	
A.	PMUY	I.	કૌશલ વિકાસ યોજના
B.	PMAY	II.	જન ધન યોજના
C.	PMKVY	III.	ઉજ્જવલા યોજના
D.	PMJDY	IV.	આવાસ યોજના

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155057793. A-I, B-III, C-II, D-IV

7155057794. A-III, B-IV, C-I, D-II

7155057795. A-IV, B-II, C-III, D-I

7155057796. A-IV, B-III, C-I, D-II

**Question Number : 35 Question Id : 7155052498 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057797. A-IV, B-II, C-I, D-III

7155057798. A-III, B-I, C-II, D-IV

7155057799. A-II, B-I, C-IV, D-III

7155057800. A-I, B-IV, C-III, D-II

**Question Number : 35 Question Id : 7155052498 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ 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

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155057797. A-IV, B-II, C-I, D-III

7155057798. A-III, B-I, C-II, D-IV

7155057799. A-II, B-I, C-IV, D-III

7155057800. A-I, B-IV, C-III, D-II

**Question Number : 36 Question Id : 7155052499 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057801. Blue-Orange

7155057802. Red-Green

7155057803. Blue-Green

7155057804. Violet-Yellow

**Question Number : 36 Question Id : 7155052499 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે આપેલા માંથી કયો રંગ પૂરક રંગ નથી ?

**Options :**

7155057801. વાદળી - નારંગી (કેસરી)

7155057802. લાલ-લીલો

7155057803. વાદળી-લીલો

7155057804. જાંબલી-પીળો

**Question Number : 37 Question Id : 7155052500 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057805. Himachal Pradesh

7155057806. Uttarakhand

7155057807. Uttar Pradesh

7155057808. Madhya Pradesh

**Question Number : 37 Question Id : 7155052500 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**



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

ભારતના કયાં રાજ્યમાં રોબર્સ ગુફા સ્થિત છે ?

**Options :**

7155057805. હિમાચલ પ્રદેશ

7155057806. ઉત્તરાખંડ

7155057807. ઉત્તર પ્રદેશ

7155057808. મધ્ય પ્રદેશ

**Question Number : 38 Question Id : 7155052501 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057809. Paris

7155057810. Dubai

7155057811. Kuala Lumpur

7155057812. New York

**Question Number : 38 Question Id : 7155052501 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે આપેલા વિકલ્પો માંથી સાચો જવાબ પસંદ કરો.  
પેટ્રોનાઝ ટાવર ક્યાં સ્થિત છે ?

**Options :**

7155057809. પેરિસ

7155057810. દુબઈ

7155057811. કુઆલા લમ્પુર

7155057812. ન્યુયોર્ક

**Question Number : 39 Question Id : 7155052502 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057813. Madhya Pradesh

7155057814. Odisha

7155057815. Karnataka

7155057816. Rajasthan

**Question Number : 39 Question Id : 7155052502 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

કોણાર્ક મંદિર ક્યાં રાજ્યમાં સ્થિત છે ?

**Options :**

7155057813. मध्य प्रदेश

7155057814. ओडीशा

7155057815. कर्णाटक

7155057816. राजस्थान

**Question Number : 40 Question Id : 7155052503 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057817. Louis I Kahn

7155057818. Mohse Safdi

7155057819. Fariborz Sahba

7155057820. Richard Meyer

**Question Number : 40 Question Id : 7155052503 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

લોટસ મંદિરના યોજક (આર્કિટેક) કોણ છે ?

**Options :**

7155057817. લુઈ આઈ કાન

7155057818. મોશે સફદાઈ Mohse Safdi

7155057819. ફરીબોર્જ સહબા

7155057820. રિચર્ડ મેયર

**Question Number : 41 Question Id : 7155052504 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057821. A dead Bearer

7155057822. A Dumb Waiter

7155057823. A Jockey Boy

7155057824. A push upper

**Question Number : 41 Question Id : 7155052504 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

ઓછા વજન વાળા સામાનને લઈ જવા માટે વપરાતી નાની લિફ્ટને શું કહેવામાં આવે છે ?

**Options :**

7155057821. A dead Bearer

7155057822. A Dumb Waiter

7155057823. A Jockey Boy

7155057824. A push upper

**Question Number : 42 Question Id : 7155052505 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057825. Bhubaneshwar-Puri

7155057826. Puri-Cuttack

7155057827. Bhubaneshwar-Cuttack

7155057828. Bhubaneshwar-Rourkela

**Question Number : 42 Question Id : 7155052505 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે આપેલા માંથી કોને ઓડિશાના 'ટવીન સીટીઝ' ('twin cities') તરીકે ઓળખવામાં આવે છે ?

**Options :**

7155057825. ભુવનેશ્વર - પૂરી

7155057826. પુરી-કટક

7155057827. ભુવનેશ્વર - કટક

7155057828. ભુવનેશ્વર - રાઉરકેલા

**Question Number : 43 Question Id : 7155052506 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057829. Mesopotamia-Harappa-Egyptian-Chinese

7155057830. Mesopotamia-Egyptian-Harappa-Chinese

7155057831. Mesopotamia-Chinese-Harappa-Egyptian

7155057832. Egyptian-Mesopotamia-Harappa-Sumerian

**Question Number : 43 Question Id : 7155052506 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

તેમના અસ્તિત્વના સંદર્ભમાં માનવ સંસ્કૃતિઓનો સાચો ઘટનાક્રમ કયો છે ?

**Options :**

7155057829. મેસોપોટેમીયા-હડપ્પા-ઇજિપ્શીયન-ચાઇનીઝ

7155057830. મેસોપોટેમીયા-ઇજિપ્શીયન-હડપ્પા-ચાઇનીઝ

7155057831. મેસોપોટેમીયા-ચાઇનીઝ-હડપ્પા-ઇજિપ્શીયન

7155057832. ઇજિપ્શીયન-મેસોપોટેમીયા-હડપ્પા-સુમેરિયન

**Question Number : 44 Question Id : 7155052507 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057833. Shah Jahan

7155057834. Jahangir

7155057835. Akbar

7155057836. Qutub ud-din Aibak

**Question Number : 44 Question Id : 7155052507 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

દિલ્હી સ્થિત કુતુબ મિનાર કોના દ્વારા નિર્મિત કરવા માં આવ્યું હતું ?

**Options :**

7155057833. શાહજહાં

7155057834. જહાંગીર

7155057835. અકબર

7155057836. કુતુબ - ઉદ્દીન એબક

**Question Number : 45 Question Id : 7155052508 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057837. North

7155057838. South

7155057839. East

7155057840. West

**Question Number : 45 Question Id : 7155052508 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

દક્ષિણ ગોળાર્ધમાં તમે આખું વર્ષ કઈ દિશામાં ઝવેર મુક્ત પ્રકાશ (ઝાંખો) મેળવશો ?

**Options :**

7155057837. ઉત્તર

7155057838. દક્ષિણ

7155057839. પૂર્વ

7155057840. પશ્ચિમ



**Question Number : 46 Question Id : 7155052509 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057841. Raj Rewal

7155057842. Charles Correa

7155057843. Achyut Kanvinde

7155057844. Hafeez Contractor

**Question Number : 46 Question Id : 7155052509 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

જયપૂર સ્થિત પ્રખ્યાત "જવાહરલાલ કલા કોમ્પ્લેક્સ"ના યોજક કોણ હતા ?

**Options :**

7155057841. રાજ રેવલ

7155057842. ચાર્લ્સ કોરિયા

7155057843. અચ્યુત કાનવિન્દે

7155057844. હાફીઝ કોન્ટ્રાક્ટર

**Question Number : 47 Question Id : 7155052510 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057845. Coastal Areas

7155057846. Plains

7155057847. Mountainous Region

7155057848. Desert Areas

**Question Number : 47 Question Id : 7155052510 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

એક બાંધકામ શૈલી ધજજી-દેવરી (Dhajji-Dewari) જે મુખ્યત્વે જ્યાં જોવા મળે છે તે \_\_\_\_\_.

**Options :**

7155057845. દરિયા કાઠાના વિસ્તારો

7155057846. મેદાનો

7155057847. પર્વતીય વિસ્તાર

7155057848. રણ વિસ્તારો

**Question Number : 48 Question Id : 7155052511 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057849. Marble

7155057850. Granite

7155057851. Shale

7155057852. Sand Stone

**Question Number : 48 Question Id : 7155052511 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

પર્વતીય પ્રદેશોમાં છત માટે કયાં પથ્થરનો ઉપયોગ થાય છે ?

**Options :**

7155057849. માર્બલ

7155057850. ગ્રેનાઈટ

7155057851. શૈલ

7155057852. સેન્ડ સ્ટોન

**Question Number : 49 Question Id : 7155052512 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057853. Radio Centric

7155057854. Grid-iron

7155057855. Linear

7155057856. Organic

**Question Number : 49 Question Id : 7155052512 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

ચંદીગઢ એ કયાં પ્રકારનું શહેર આયોજનનું ઉદાહરણ છે ?

**Options :**

7155057853. રેડિયો સેન્ટ્રીક

7155057854. ગ્રીડ-આયર્ન

7155057855. રેખીય/ લીનિયર

7155057856. ઓર્ગેનિક

**Question Number : 50 Question Id : 7155052513 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057857. Those facing North

7155057858. Those facing South

7155057859. Those facing East

7155057860. Those facing West

**Question Number : 50 Question Id : 7155052513 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

જો તમારે ગોવાના દરિયાકિનારે બાંધકામ કરવાનું હોય તો, ક્યાં ખંડમાંથી સમુદ્રનો શ્રેષ્ઠ નજારો જોવા મળશે ?

**Options :**

7155057857. જેનું મૂખ ઉત્તર તરફ હોય

7155057858. જેનું મૂખ દક્ષિણ તરફ હોય

7155057859. જેનું મૂખ પૂર્વ તરફ હોય

7155057860. જેનું મૂખ પશ્ચિમ તરફ હોય

**Question Number : 51 Question Id : 7155052514 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057861. B.V Doshi

7155057862. C.P Kukreja

7155057863. Raj Rewal

7155057864. Bimal Patel

**Question Number : 51 Question Id : 7155052514 Question Type : MCQ Option Shuffling : Yes 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 એ કોના દ્વારા સંચાલિત આવેલ છે ?

**Options :**

7155057861. બી. વી દોશી

7155057862. સી. પી કુકરેજા





7155057863. રાજ રેવાલ

7155057864. બીમલ પટેલ

**Question Number : 52 Question Id : 7155052515 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057865. A-II, B-I, C-IV, D-III

7155057866. A-I, B-III, C-IV, D-II





7155057867. A-I, B-II, C-III, D-IV

7155057868. A-IV, B-III, C-II, D-I

Question Number : 52 Question Id : 7155052515 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ II	
A.		I.	એમ્પાયર સ્ટેટ બિલ્ડિંગ
B.		II.	હાગિયા સોફિયા
C.		III.	સિડની ઓપેરા હાઉસ
D.		IV.	કોલોસીયમ

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

Options :

7155057865. A-II, B-I, C-IV, D-III

7155057866. A-I, B-III, C-IV, D-II







7155057867. A-I, B-II, C-III, D-IV

7155057868. A-IV, B-III, C-II, D-I

**Question Number : 53 Question Id : 7155052516 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057869. A-IV, B-I, C-II, D-III

7155057870. A-II, B-III, C-I, D-IV





7155057871. A-III, B-II, C-I, D-IV

7155057872. A-IV, B-III, C-II, D-I

Question Number : 53 Question Id : 7155052516 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ II	
A.		I.	ટેસ્લા
B.		II.	ફેરારી
C.		III.	પોર્શ
D.		IV.	ટોયોટા

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

Options :

7155057869. A-IV, B-I, C-II, D-III

7155057870. A-II, B-III, C-I, D-IV

7155057871. A-III, B-II, C-I, D-IV

7155057872. A-IV, B-III, C-II, D-I

**Question Number : 54 Question Id : 7155052517 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057873. Both Statement I and Statement II are correct

7155057874. Both Statement I and Statement II are incorrect

7155057875. Statement I is correct but statement II is incorrect

7155057876. Statement I is incorrect but statement II is correct

**Question Number : 54 Question Id : 7155052517 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે બે વિધાનો આપેલા છે.

**વિધાન I :** લાલ, વાદળી અને પીળો રંગ ચક્રના પ્રાથમિક રંગો છે.

**વિધાન II :** રંગ ચક્રમાં એક બીજાની વિરુદ્ધ સ્થિત થયેલા રંગોને પૂરક રંગો તરીકે ઓળખવામાં આવે છે.

ઉપર આપેલા વિધાનોના સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155057873. બંને વિધાન I અને વિધાન II સાચા છે.

7155057874. બંને વિધાન I અને વિધાન II ખોટા છે.

7155057875. વિધાન I સાચું છે. પણ વિધાન II ખોટું છે.

7155057876. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

**Question Number : 55 Question Id : 7155052518 Question Type : MCQ Option Shuffling : Yes Is**

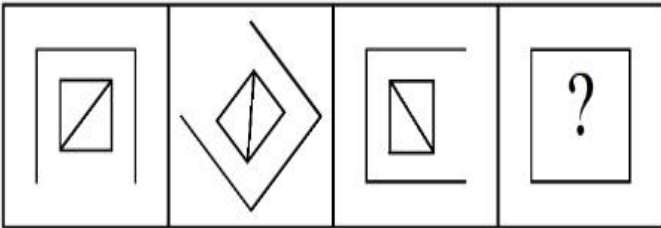
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

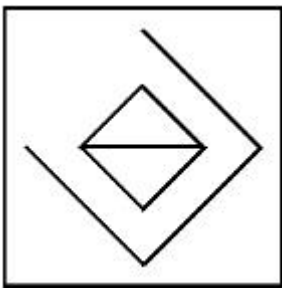
**Correct Marks : 4 Wrong Marks : 1**

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

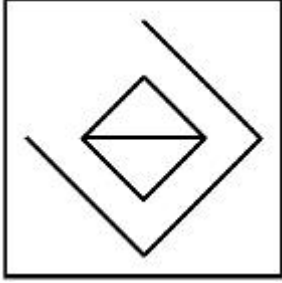
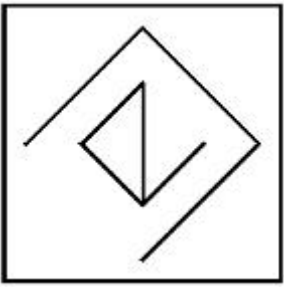


**Options :**

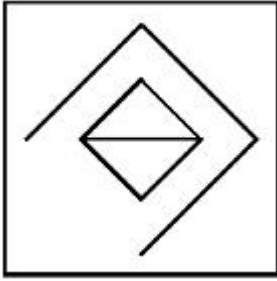


7155057877.

7155057878.



7155057879.



7155057880.

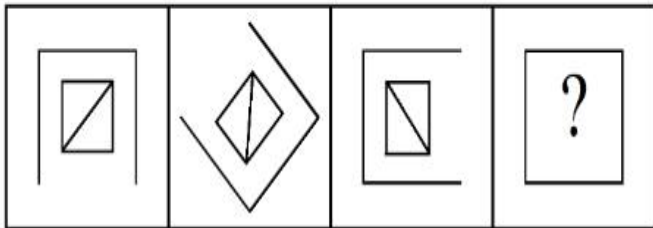
**Question Number : 55 Question Id : 7155052518 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

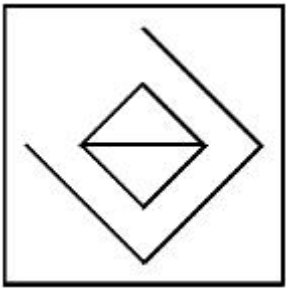
**Correct Marks : 4 Wrong Marks : 1**

નીચે આપેલા પ્રશ્નો સમસ્યાપૂર્ણ આકૃતિ ધરાવે છે જેમના જવાબો નીચે જવાબની આકૃતિઓ માં આપેલા છે. જવાબ આકૃતિ માંથી તેવી આકૃતિ પસંદ કરો જે પ્રશ્ન માં આપેલી આકૃતિ ને આગળ ચાલું રાખતું હોય.

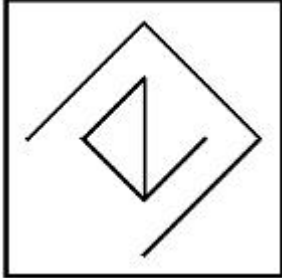


**Options :**

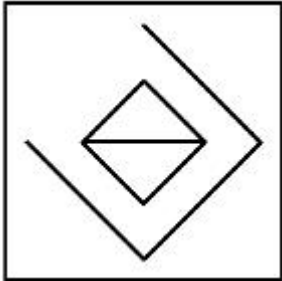
7155057877.



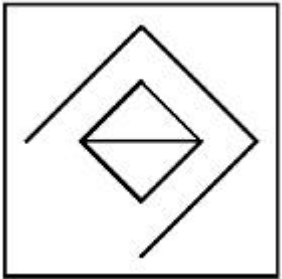
7155057878.



7155057879.



7155057880.



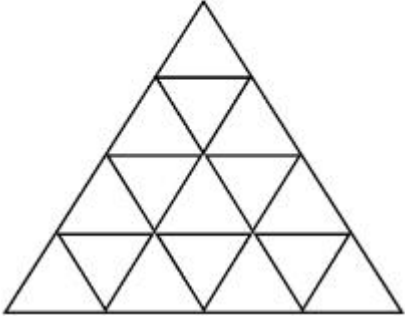
**Question Number : 56 Question Id : 7155052519 Question Type : MCQ Option Shuffling : Yes Is**

**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 :**

7155057881. 26

7155057882. 25

7155057883. 27

7155057884. 24

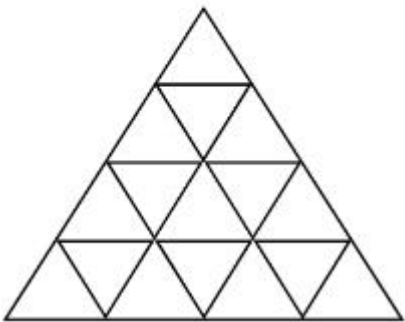
**Question Number : 56 Question Id : 7155052519 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે આપેલી આકૃતિમાં કેટલા ત્રિકોણો છે ?



**Options :**

7155057881. 26

7155057882. 25

7155057883. 27

7155057884. 24

**Question Number : 57 Question Id : 7155052520 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057885. 59

7155057886. 32

7155057887. 25

7155057888. 9

**Question Number : 57 Question Id : 7155052520 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

વિચિત્ર છે તેને શોધો.

7, 9, 25, 32, 43, 59

**Options :**

7155057885. 59

7155057886. 32



7155057887. 25

7155057888. 9

**Question Number : 58 Question Id : 7155052521 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057889. 45.6 meter

7155057890. 50 meter

7155057891. 50.4 meter

7155057892. 51.6 meter

**Question Number : 58 Question Id : 7155052521 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

એર રેસિડેન્શિયલ બિલ્ડિંગમાં (રહેણાંક ભવન) 15 માળ ધરાવે છે. ભોયતળિયાની ઉંચાઈ 4.2 મીટર (લંબાઈ અને સ્લેબની જાડાઈ સહિત) છે. બાકીના તમામ માળ 3.3 મીટર ઉંચા (સ્લેબની જાડાઈ સહિત) છે. તો ઈમારતની (ભવનની) કુલ ઉંચાઈ (જમીનથી અગાશી સુધી) મીટર કેટલી છે ?

**Options :**

7155057889. 45.6 મીટર

7155057890. 50 મીટર

7155057891. 50.4 મીટર

7155057892. 51.6 મીટર

**Question Number : 59 Question Id : 7155052522 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057893. 22ECCU2

7155057894. 22ECCU2

7155057895. SUCCESS

7155057896. SSECCUS

**Question Number : 59 Question Id : 7155052522 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે આપેલા શબ્દના અરીસાની છબી આરસી પ્રતિબિંબ શોધો.

SUCCESS

**Options :**

7155057893. 22ECC22

7155057894. 22ECC22

7155057895. SUCCESS

7155057896. SSECCUS

**Question Number : 60 Question Id : 7155052523 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057897. 0.7 km

7155057898. 7000 mm

7155057899. 7 km

7155057900. 70 meter

**Question Number : 60 Question Id : 7155052523 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નકશાનું માપ 1:1000 છે. જો કોઈ ગાડી 7 cm બિંદુ 'A' થી બિંદુ 'B' સુધી નકશા ઉપર મુસાફરી કરે છે, તો તે ગાડીએ હકકીતમાં કેટલી મુસાફરી કરી છે ?

**Options :**

7155057897. 0.7 કી.મી.

7155057898. 7000 એમ.એમ.

7155057899. 7 કી.મી.

7155057900. 70 મીટર

**Question Number : 61 Question Id : 7155052524 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

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

**Options :**

7155057901. 8 meter  $\times$  4 meter

7155057902. 80 meter  $\times$  40 meter

7155057903. 8 centimeter  $\times$  4 centimeter

7155057904. 4 meter  $\times$  2 meter

**Question Number : 61 Question Id : 7155052524 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

ધરની ડિઝાઇન માટે 80 મીટર  $\times$  40 મીટર ની જમીન કાગળ પર 1:100 ના સ્કેલ પર દોરવામાં આવે છે, તો પછી જમીન માટે કાગળ પર કયો માપ દોરવામાં આવે છે ?

**Options :**

7155057901. 8 મીટર  $\times$  4 મીટર

7155057902. 80 મીટર  $\times$  40 મીટર

7155057903. 8 સેન્ટીમીટર  $\times$  4 સેન્ટીમીટર

7155057904. 4 મીટર  $\times$  2 મીટર

**Question Number : 62 Question Id : 7155052525 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057905. 523

7155057906. 521

7155057907. 524

7155057908. 520

**Question Number : 62 Question Id : 7155052525 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે આપેલી શ્રેણીઓ માંથી ખૂટતો આંકડો (missing number) શોધો.

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

**Options :**

7155057905. 523

7155057906. 521

7155057907. 524

7155057908. 520

**Question Number : 63 Question Id : 7155052526 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057909. KVCMA

7155057910. KWCNB

7155057911. KUCLA

7155057912. KVCNA

**Question Number : 63 Question Id : 7155052526 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

જો સંકેતિક ભાષામાં ROMAN ને TQOCP લખાય તો, ITALY ને કેવી રીતે લખાય ?

**Options :**

7155057909. KVCMA

7155057910. KWCNB

7155057911. KUCLA

7155057912. KVCNA

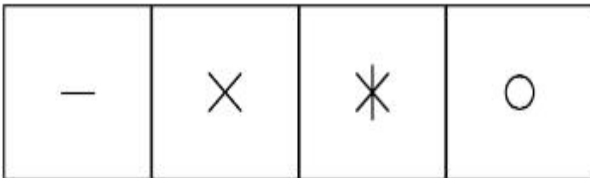
**Question Number : 64 Question Id : 7155052527 Question Type : MCQ Option Shuffling : Yes Is**

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

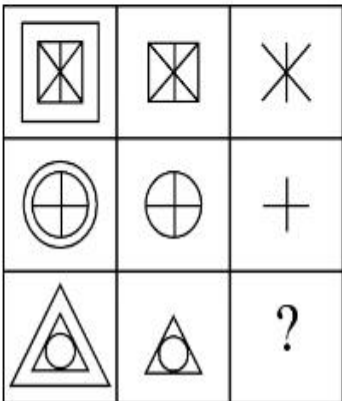
**Instruction Time : 0**

**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 :**

7155057913. D

7155057914. C

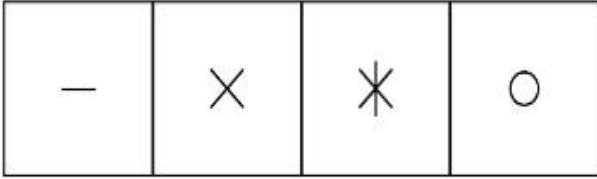
7155057915. B

7155057916. A

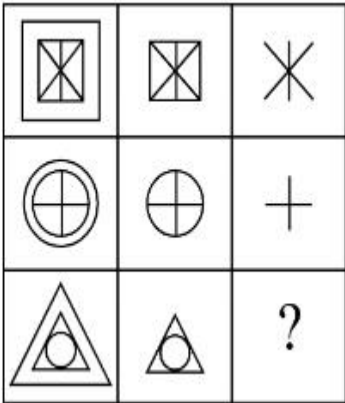
**Question Number : 64 Question Id : 7155052527 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચ આપેલા 4 વિકલ્પો માંથી બંધ બેસતી આકૃતિ શોધો જે ખાલી બોક્સમાં આવી શકે ?



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



**Options :**

7155057913. D

7155057914. C

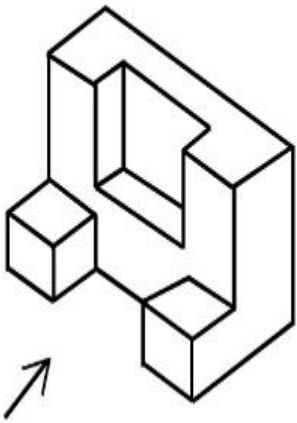
7155057915. B



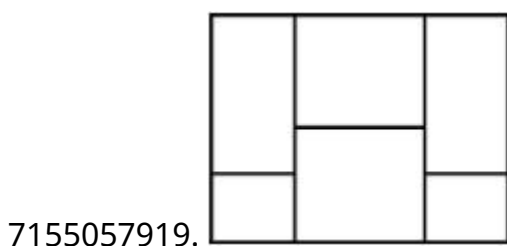
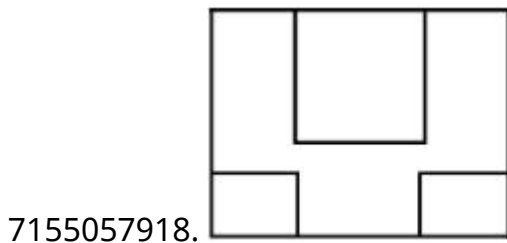
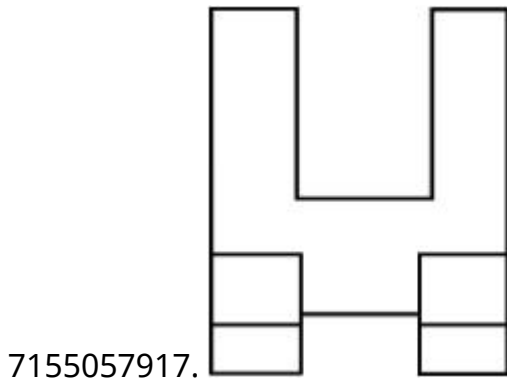
**Question Number : 65 Question Id : 7155052528 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

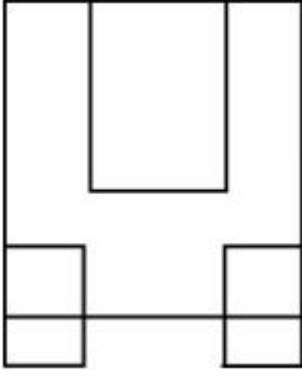
The 3D figure shows the view of an object. Looking in the direction of arrow, identify the most appropriate elevation from the given answer figures.



**Options :**



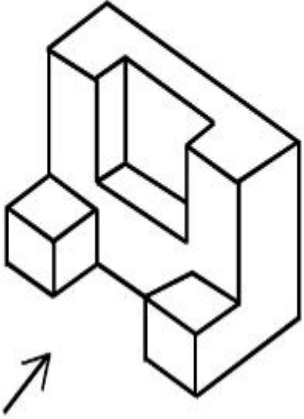
7155057920.



**Question Number : 65 Question Id : 7155052528 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

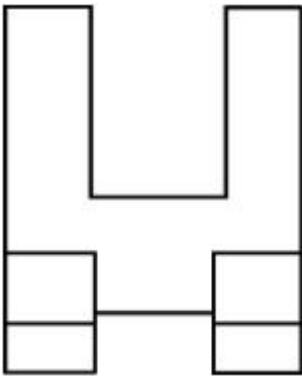
**Correct Marks : 4 Wrong Marks : 1**

3D ચિત્ર એક પદાર્થને દર્શાવે છે. ત્રીજી દિશામાં જોતા, નીચે આપેલી આકૃતિઓ માંથી સૌથી યોગ્ય એલીવેશન ધરાવતી આકૃતિ શોધો.

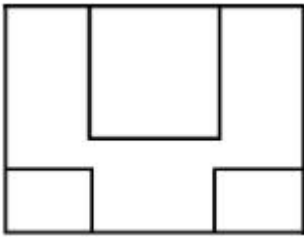


**Options :**

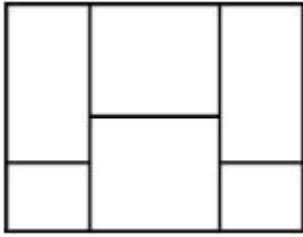
7155057917.



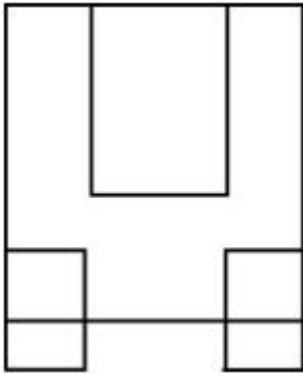
7155057918.



7155057919.



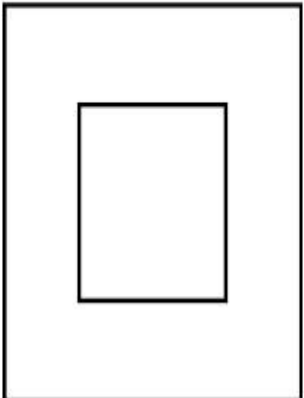
7155057920.



**Question Number : 66 Question Id : 7155052529 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

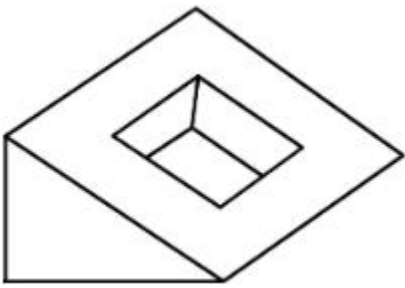
**Correct Marks : 4 Wrong Marks : 1**

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

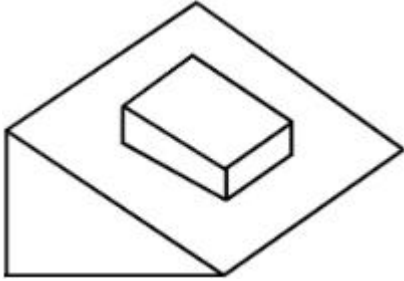


**Options :**

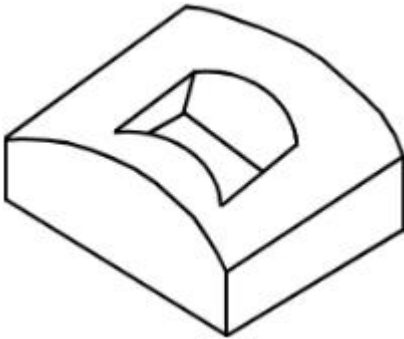
7155057921.



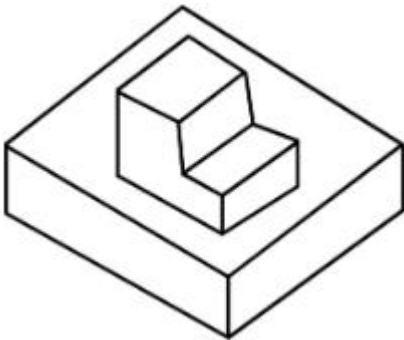
7155057922.



7155057923.

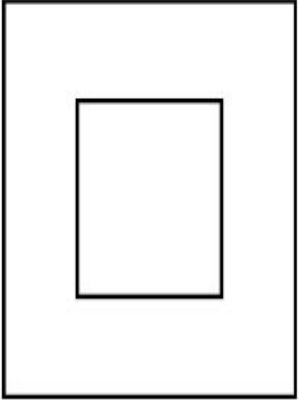


7155057924.

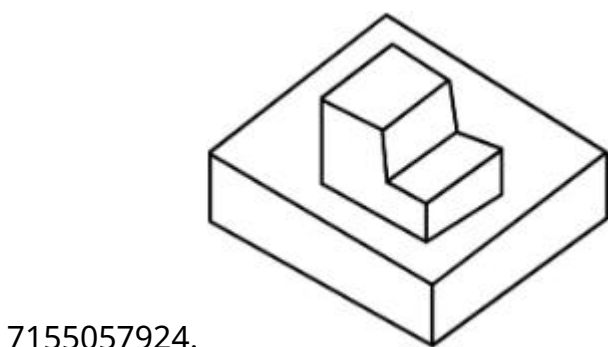
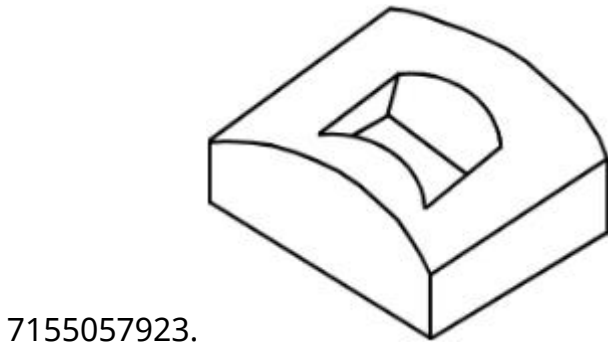
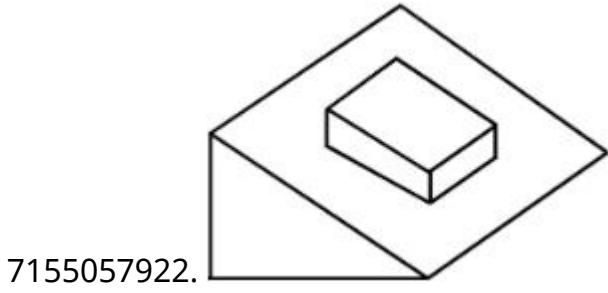
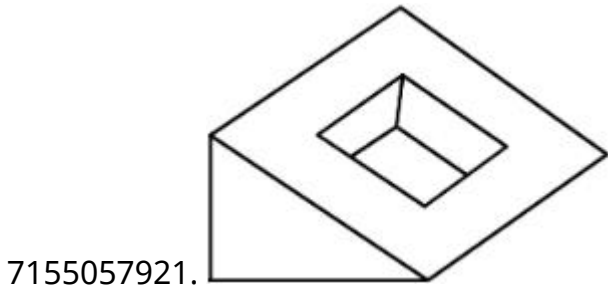


**Question Number : 66 Question Id : 7155052529 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0  
Correct Marks : 4 Wrong Marks : 1**

પ્રશ્નમા આપેલી આકૃતિ પદાર્થનું ટોચનું દૃશ્ય / પ્લાન દર્શાવે છે. નીચે આપેલી આકૃતિઓ માંથી ખોટી 3D દેખાવ વાળી આકૃતિ શોધો.



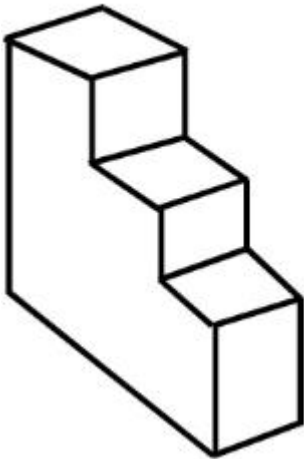
**Options :**



**Question Number : 67 Question Id : 7155052530 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057925. 9

7155057926. 10

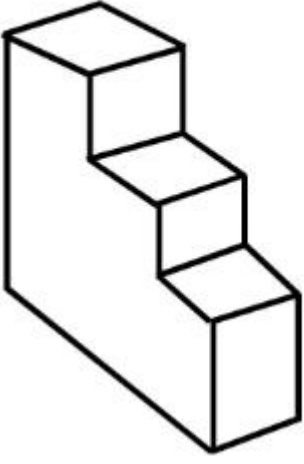
7155057927. 8

7155057928. 11

**Question Number : 67 Question Id : 7155052530 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે આપેલાં પદાર્થમાં કેટલી સપાટીઓ આવેલી છે ?



**Options :**

7155057925. 9

7155057926. 10

7155057927. 8

7155057928. 11

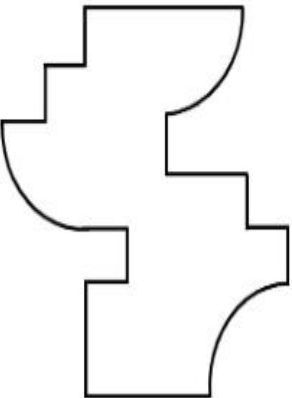
**Question Number : 68 Question Id : 7155052531 Question Type : MCQ Option Shuffling : Yes Is**

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

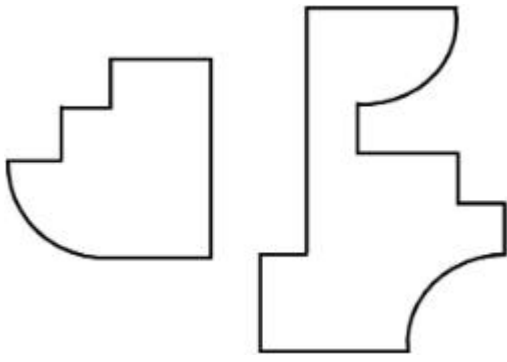
**Instruction Time : 0**

**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?



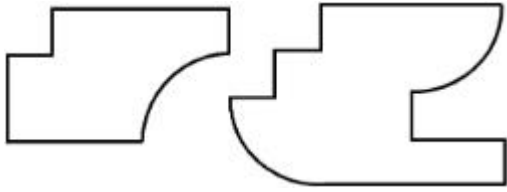
**Options :**



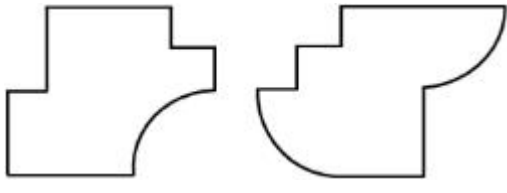
7155057929.



7155057930.



7155057931.

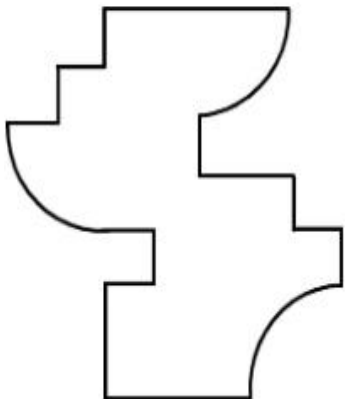


7155057932.

**Question Number : 68 Question Id : 7155052531 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

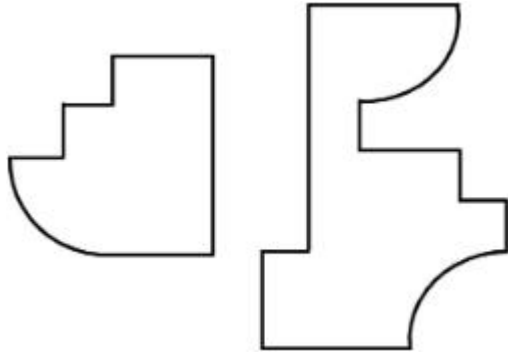
**Correct Marks : 4 Wrong Marks : 1**

જો પ્રશ્ન આકૃતિ બે ભાગમાં કાપવામાં આવે તો ક્યાં જવાબની આકૃતિ કોઈ પણ આરજાદન (ઓવરલેપિંગ્સ) વિના પ્રશ્ન આકૃતિને પૂર્ણ કરે છે,

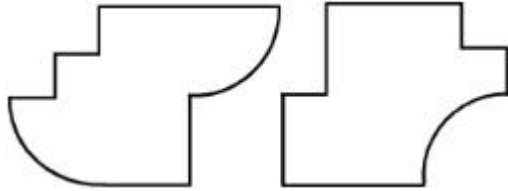




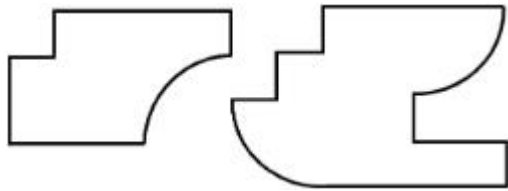
**Options :**



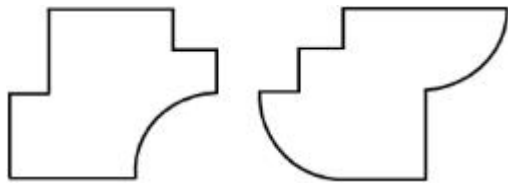
7155057929.



7155057930.



7155057931.

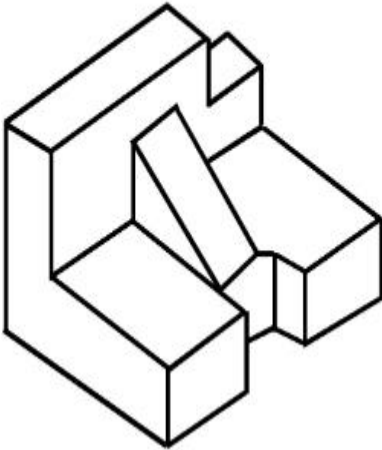


7155057932.

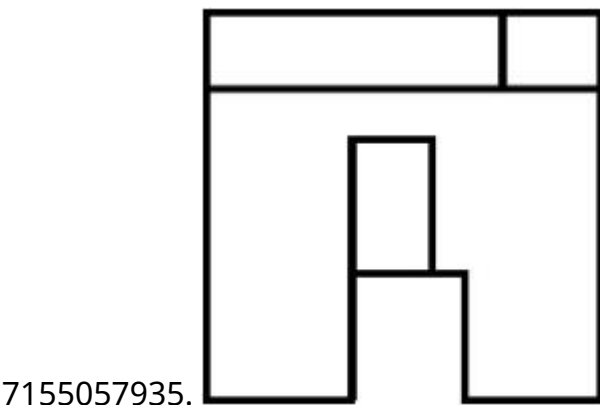
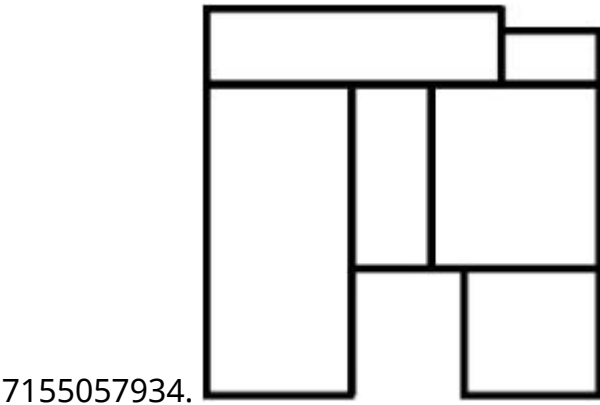
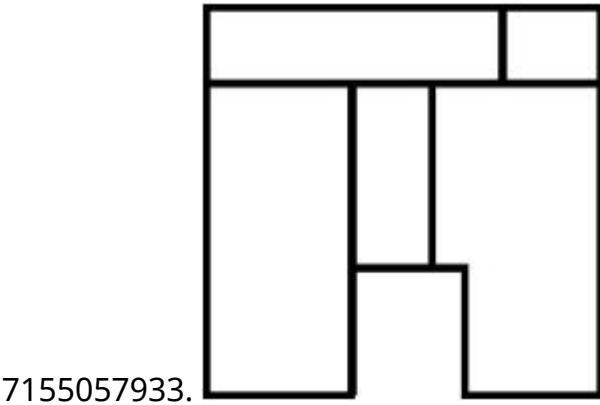
**Question Number : 69 Question Id : 7155052532 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

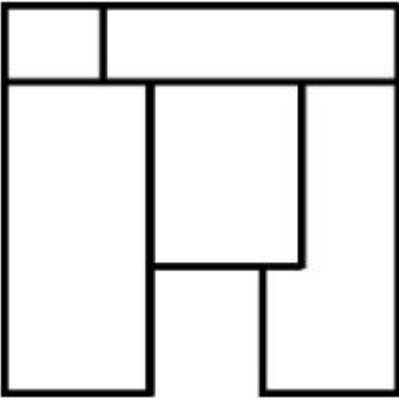
The 3D problem figure shows the view of an object. Identify its appropriate top view from the answer figures.



Options :



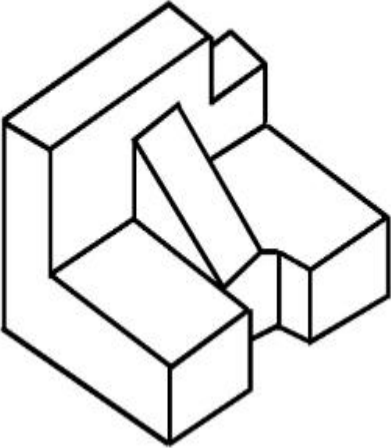
7155057936.



**Question Number : 69 Question Id : 7155052532 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

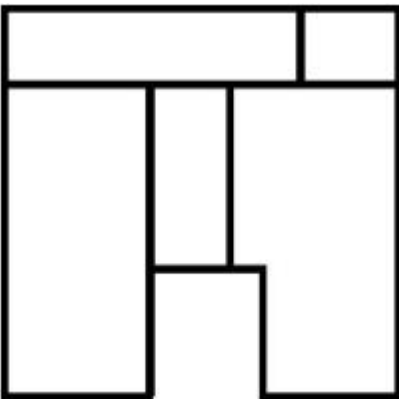
**Correct Marks : 4 Wrong Marks : 1**

પ્રશ્નમાં આપેલી 3D આકૃતિ એક પદાર્થનો દેખાવ દર્શાવે છે. નીચે આપેલી જવાબ આકૃતિઓ માંથી પદાર્થમાટે યોગ્ય ઉપરની સપાટી ઓળખો.

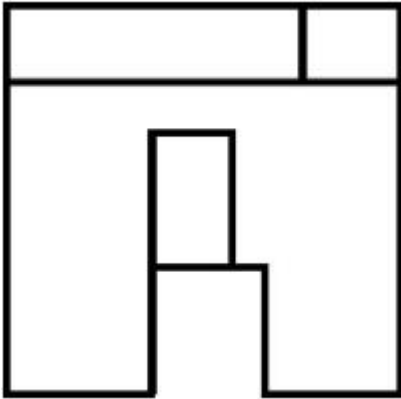
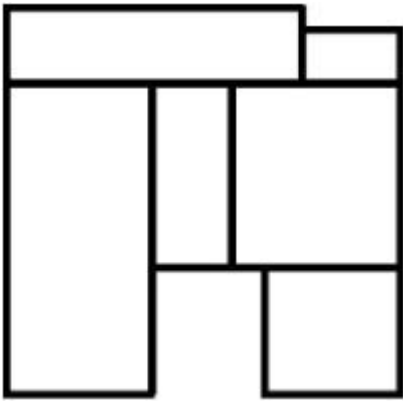


**Options :**

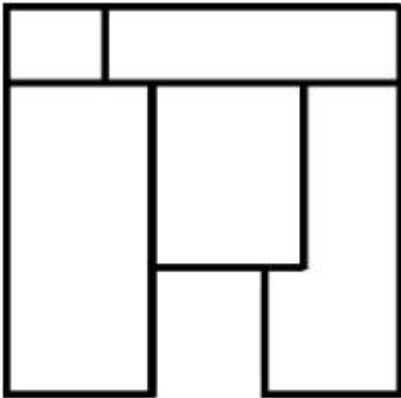
7155057933.



7155057934.



7155057935.

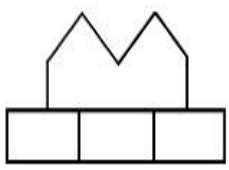
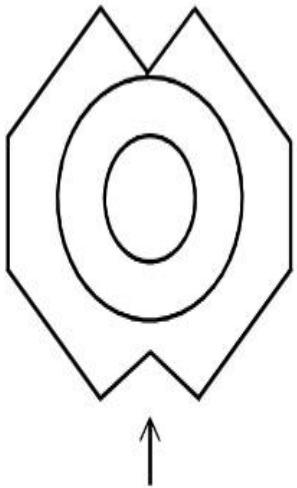


7155057936.

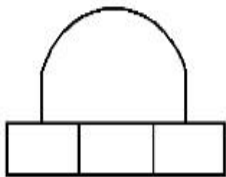
Question Number : 70 Question Id : 7155052533 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

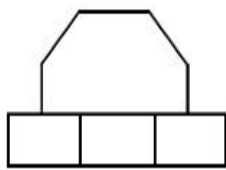
Identify the correct elevation when you look into the object from the marked arrow side of the plan of the object.



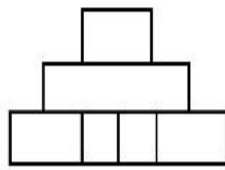
A



B



C



D

**Options :**

7155057937. D

7155057938. A

7155057939. B

7155057940. C

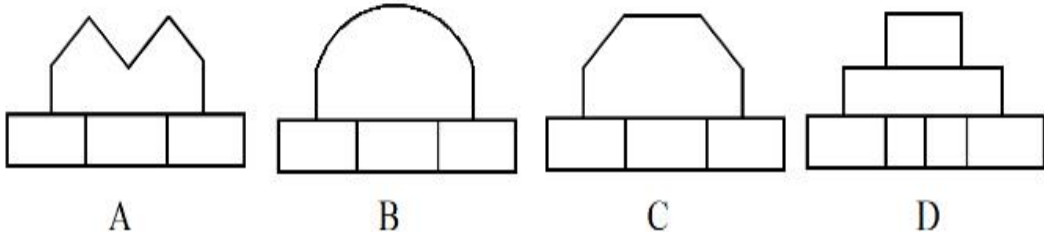
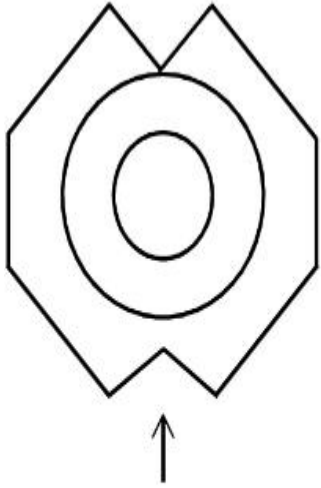
**Question Number : 70 Question Id : 7155052533 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

જ્યારે પદાર્થના પ્લાનમાં તેને તીર બાજુએથી જોવા માં આવે ત્યારે તેનો જે દેખાવ હોય તે ઓળખો.



**Options :**

7155057937. D

7155057938. A

7155057939. B

7155057940. C

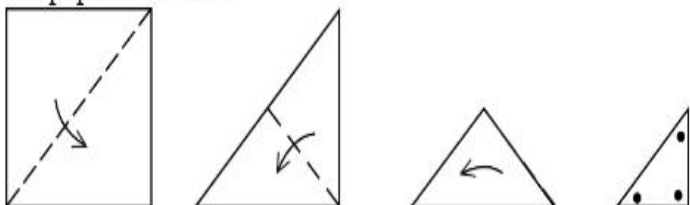
**Question Number : 71 Question Id : 7155052534 Question Type : MCQ Option Shuffling : Yes Is**

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

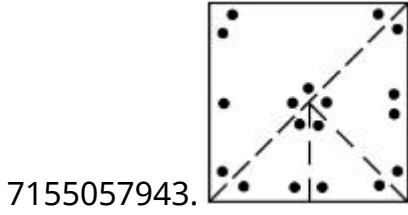
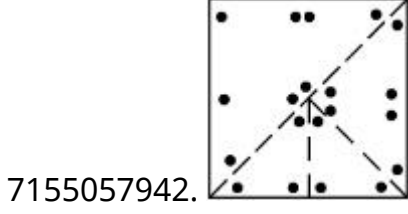
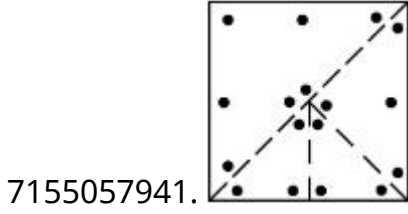
**Instruction Time : 0**

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

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



Options :



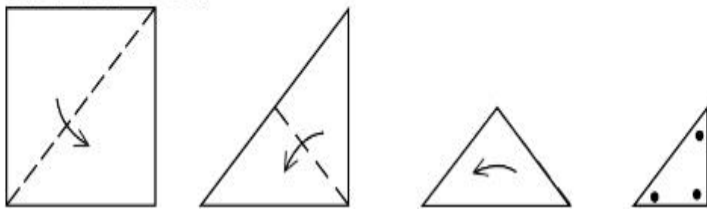
Question Number : 71 Question Id : 7155052534 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

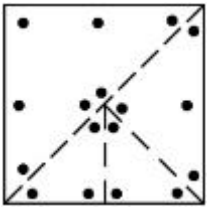
Correct Marks : 4 Wrong Marks : 1

એક કાગળને નીચે આપેલ નમૂના પ્રમાણે વાળવું અને તેને છેડે થી કાપવું એ ભાત ઓળખો જે કાગળને ખોલવાથી બનશે.

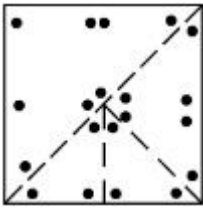


Options :

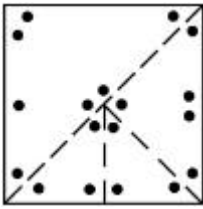
7155057941.



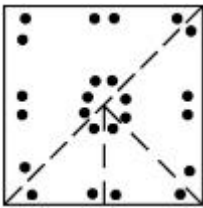
7155057942.



7155057943.



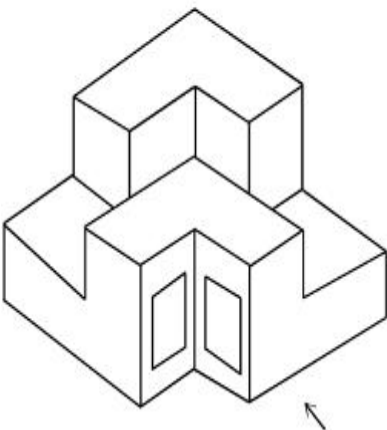
7155057944.



**Question Number : 72 Question Id : 7155052535 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

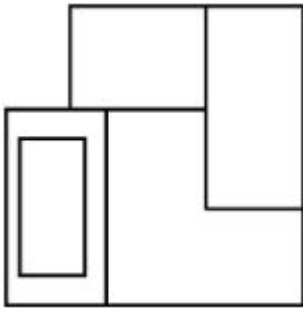
The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.



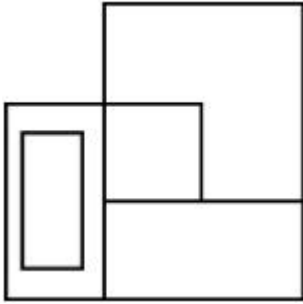
**Options :**



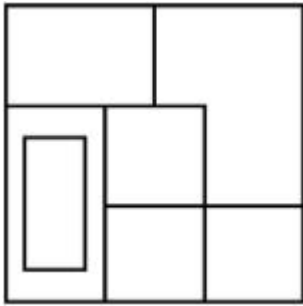
7155057945.



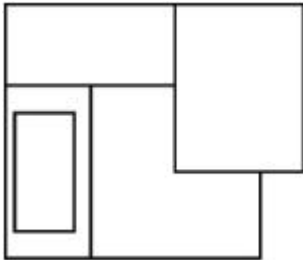
7155057946.



7155057947.



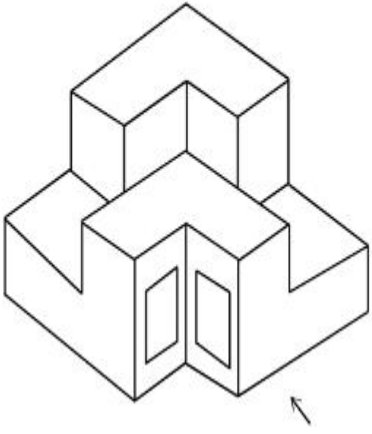
7155057948.



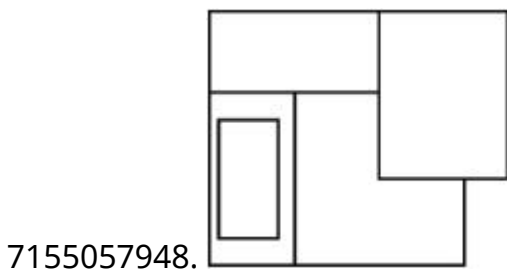
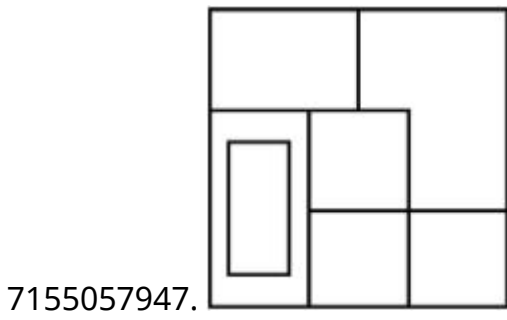
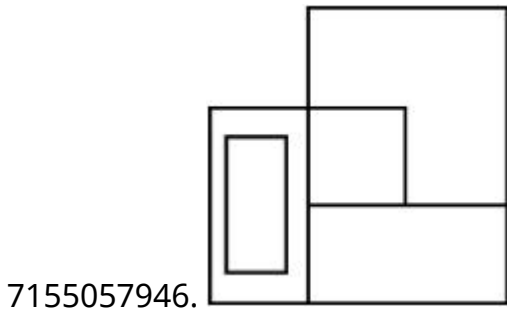
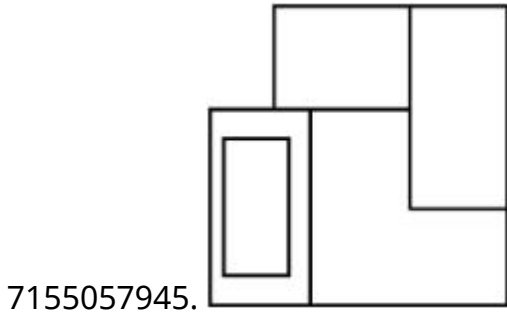
**Question Number : 72 Question Id : 7155052535 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

પ્રશ્નમાં આપેલી આકૃતિ એક પદાર્થ 3D દેખાવ દર્શાવે છે. ત્રીસની દિશામાં જોતા તેનો સાચો દેખાવ શોધો.



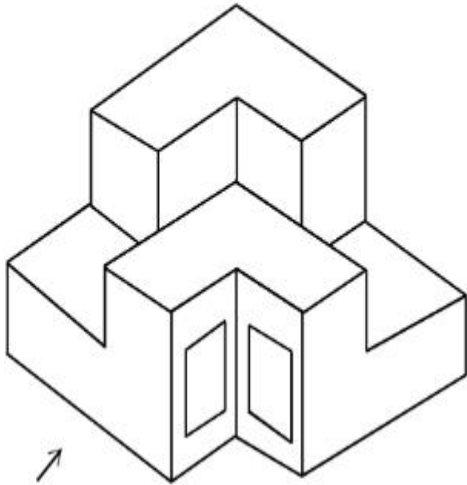
**Options :**



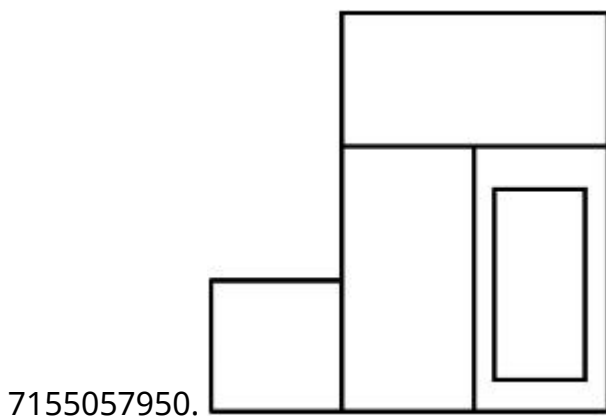
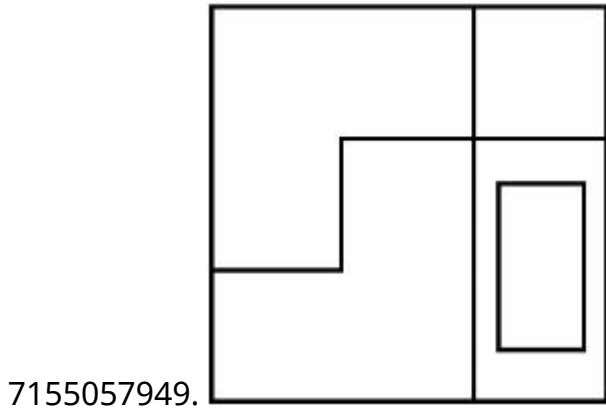
Question Number : 73 Question Id : 7155052536 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

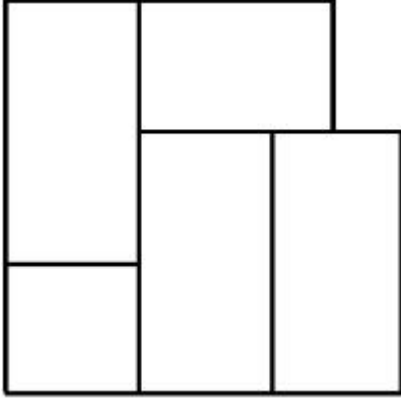
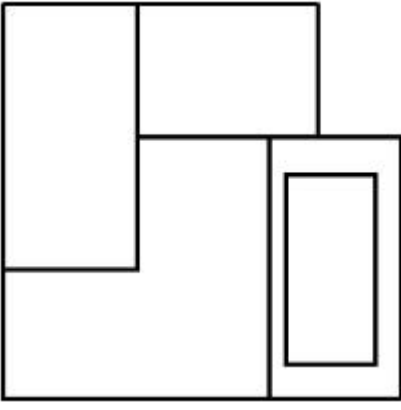
The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.



Options :



7155057951.

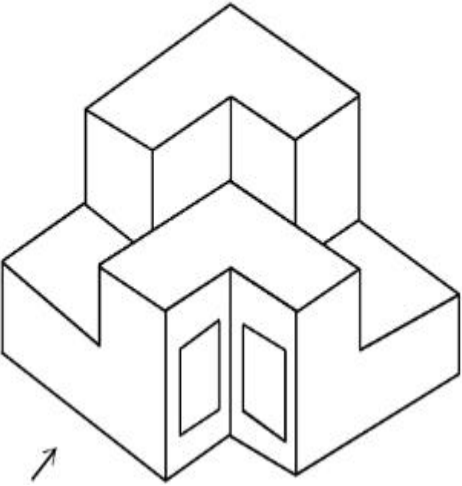


7155057952.

**Question Number : 73 Question Id : 7155052536 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

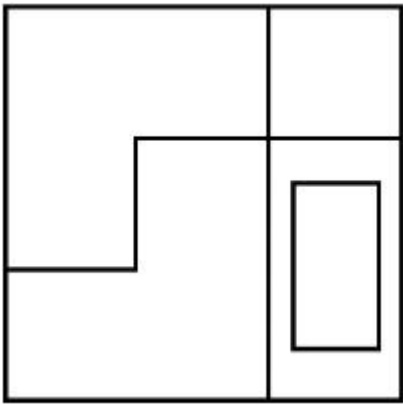
**Correct Marks : 4 Wrong Marks : 1**

પ્રશ્નમાં આપેલી આકૃતિ એક પદાર્થનો 3D દેખાવ દર્શાવે છે. ત્રીસની દિશામાં જોતા તેનો સાચો દેખાવ શોધો.

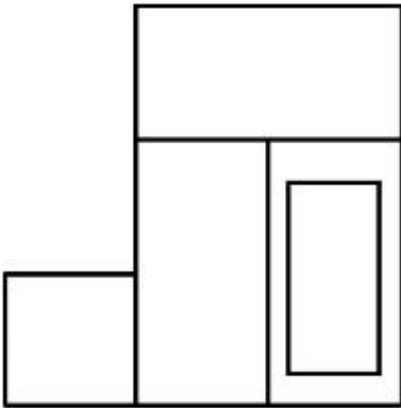


**Options :**

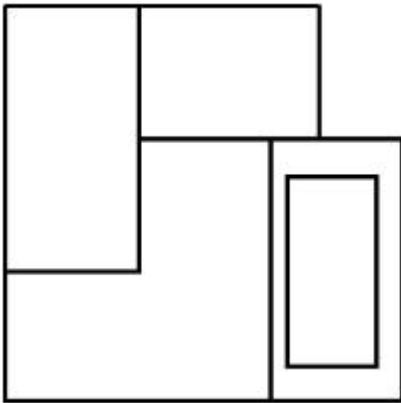
7155057949.



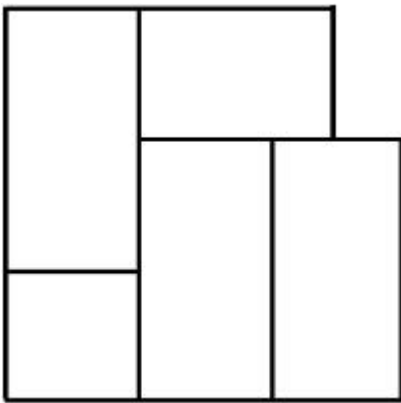
7155057950.



7155057951.



7155057952.

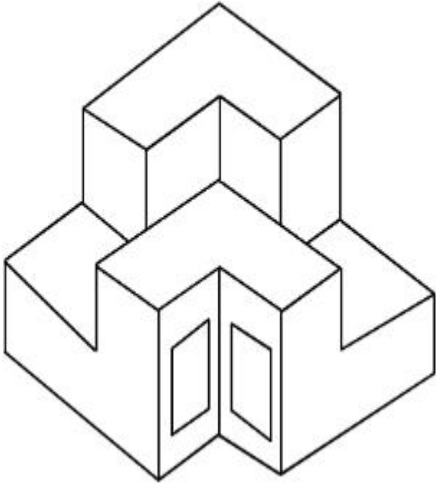


**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

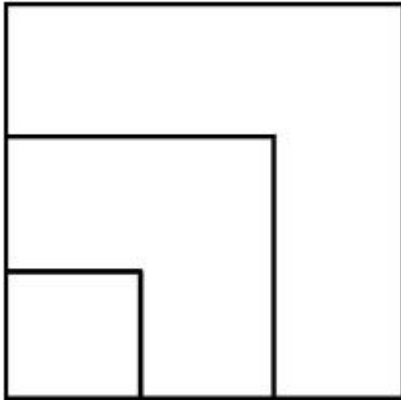
**Correct Marks : 4 Wrong Marks : 1**

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

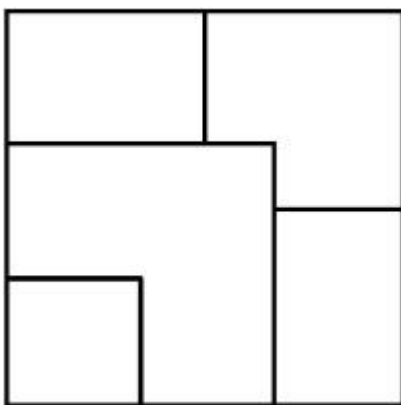


**Options :**

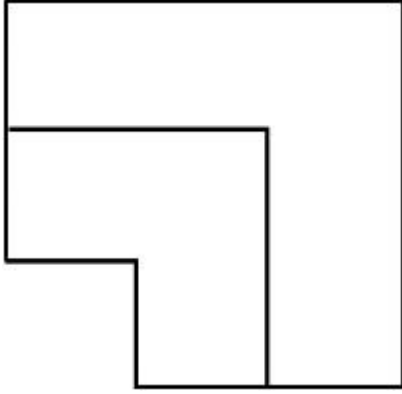
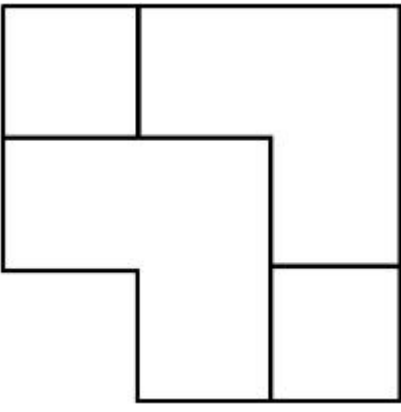
7155057953.



7155057954.



7155057955.

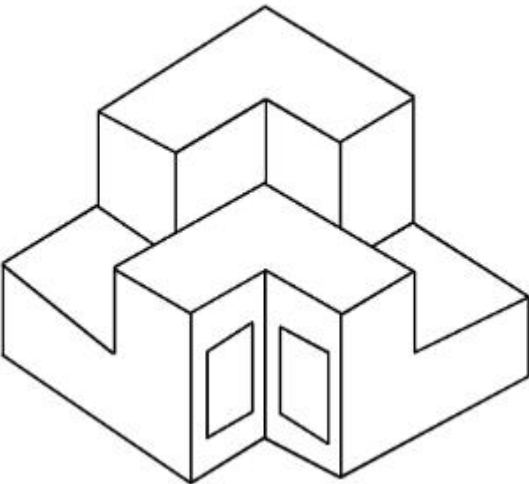


7155057956.

**Question Number : 74 Question Id : 7155052537 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

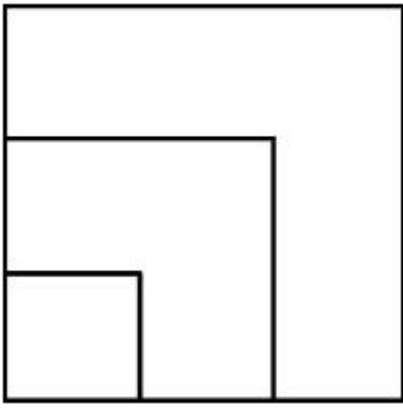
**Correct Marks : 4 Wrong Marks : 1**

નીચે આપેલા વિકલ્પો માંથી ઉપરની સપાટીથી જોતા 3D પદાર્થનો સાચો નકશો શોધો.

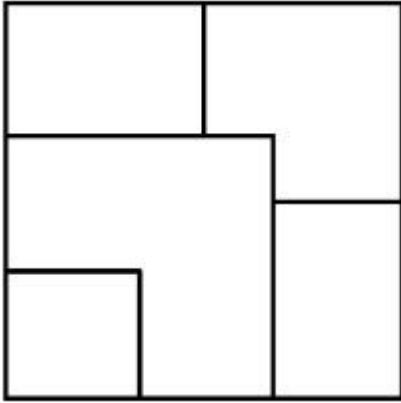


**Options :**

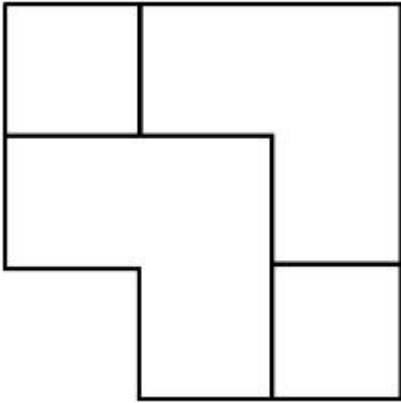
7155057953.



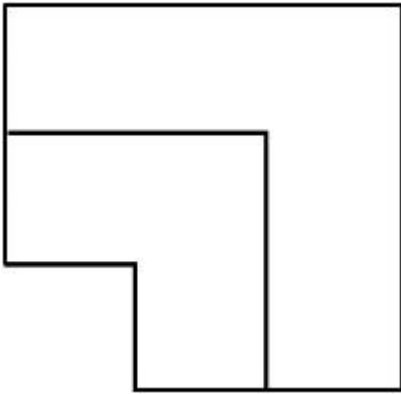
7155057954.



7155057955.



7155057956.

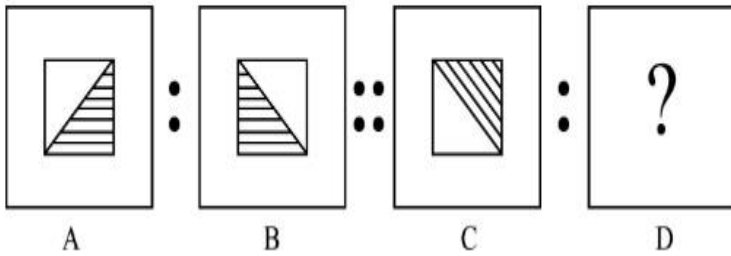




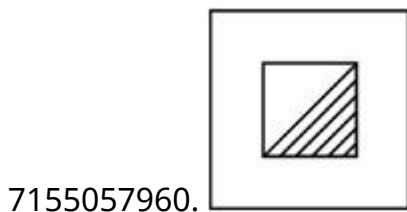
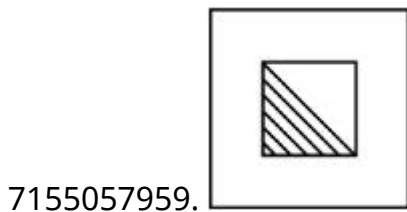
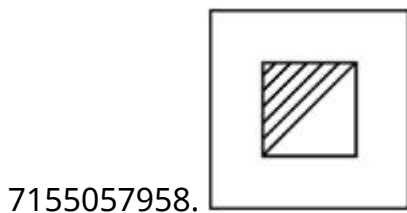
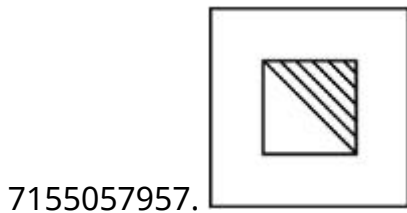
**Instruction Time : 0**

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

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



**Options :**



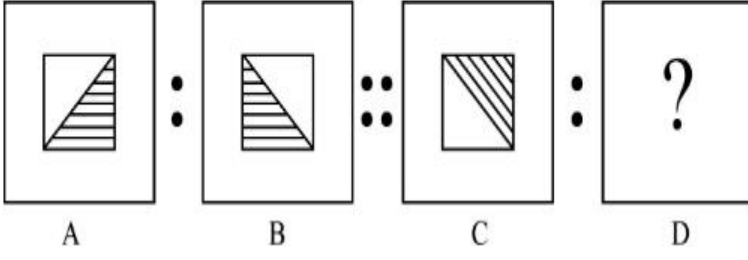
**Question Number : 75 Question Id : 7155052538 Question Type : MCQ Option Shuffling : Yes Is**

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

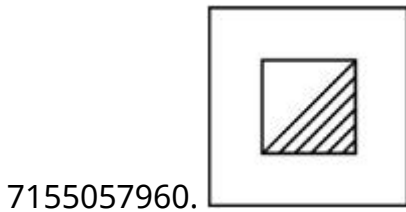
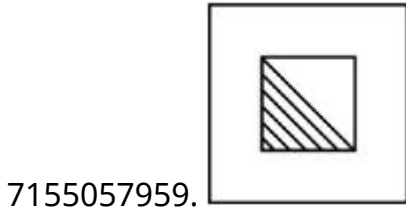
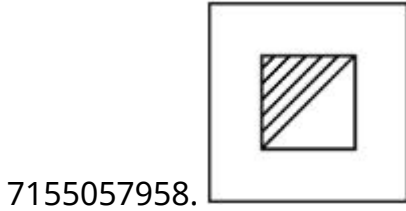
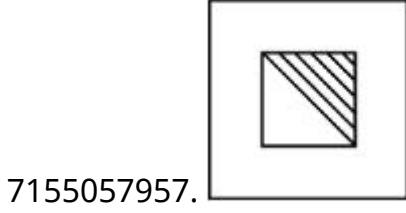
**Instruction Time : 0**

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

પ્રશ્ન આકૃતિઓમાંના પ્રથમ ભાગમાં બીજી આકૃતિ પ્રથમ આકૃતિ સાથે ચોક્કસ સંબંધ ધરાવે છે તેવી જ રીતે જવાબની આકૃતિઓ એક આકૃતિ બીજા ભાગના પ્રથમ આકૃતિ સાથે સમાન સંબંધ ધરાવે છે. નીચે આપેલી જવાબની આકૃતિઓ માંથી સાચો વિકલ્પ પસંદ કરો.



Options :



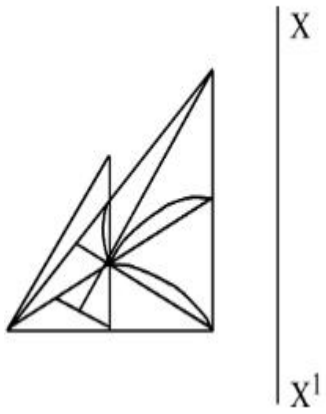
Question Number : 76 Question Id : 7155052539 Question Type : MCQ Option Shuffling : Yes Is

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

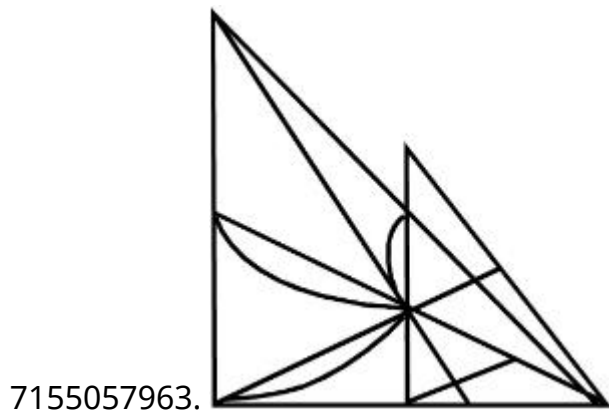
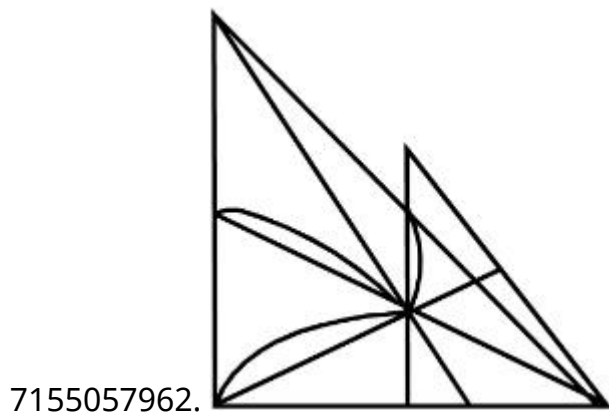
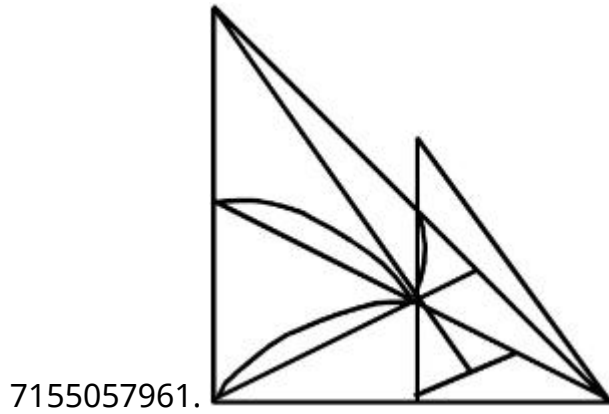
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

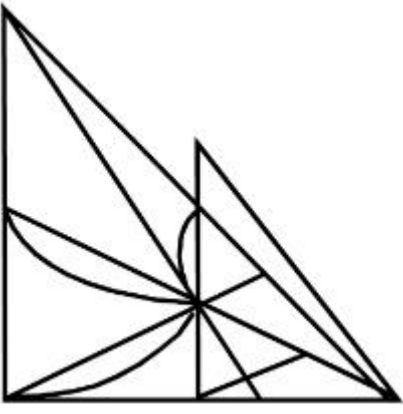
Identify the true mirror image of the figure amongst the answer figures with respect to X-X



Options :



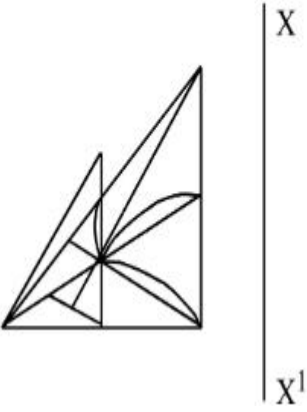
7155057964.



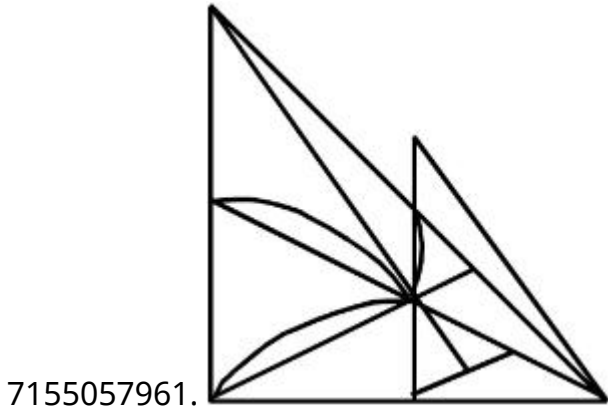
Question Number : 76 Question Id : 7155052539 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

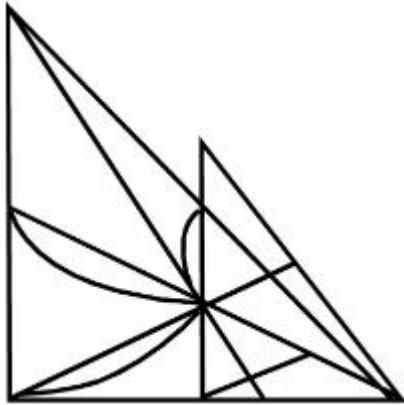
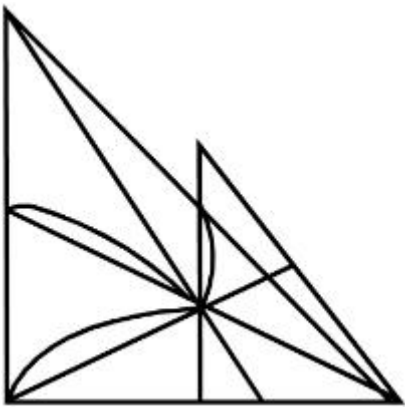
નીચે આપેલી જવાબોની આકૃતિઓ માંથી X-Xના સંદર્ભમાં પ્રશ્નની આકૃતિની સાચી અરીસાની છબી  
(આરસી પ્રતિબિંબ) શોધો.



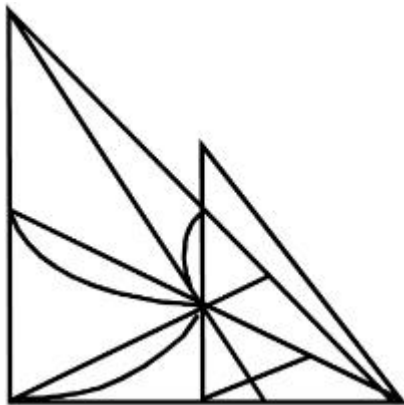
Options :



7155057962.



7155057963.

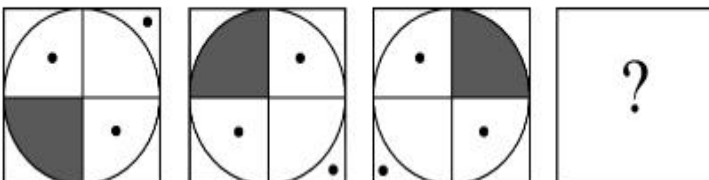


7155057964.

**Question Number : 77 Question Id : 7155052540 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

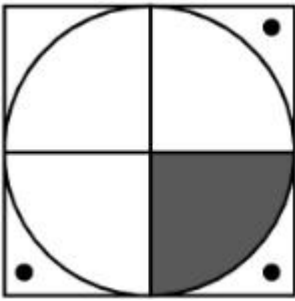
**Correct Marks : 4 Wrong Marks : 1**

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

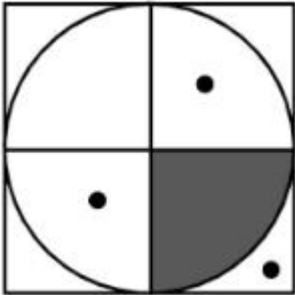


**Options :**

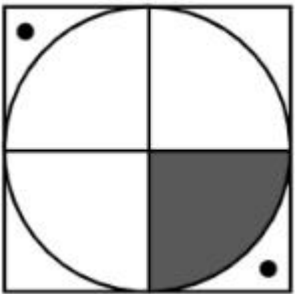
7155057965.



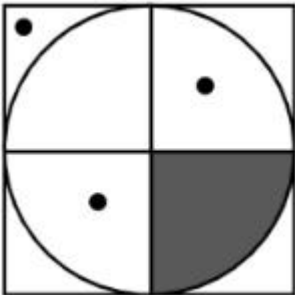
7155057966.



7155057967.



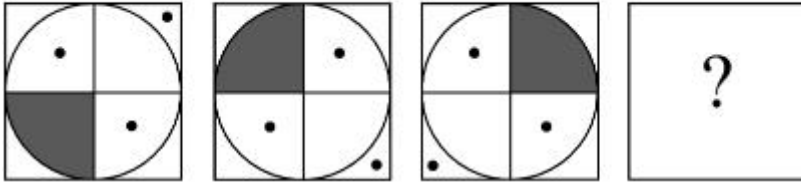
7155057968.



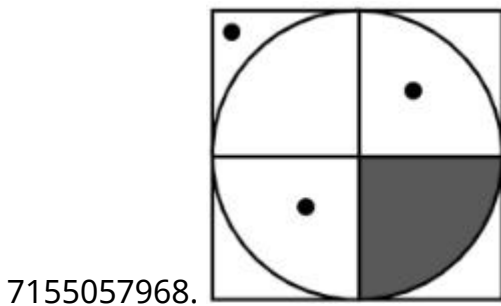
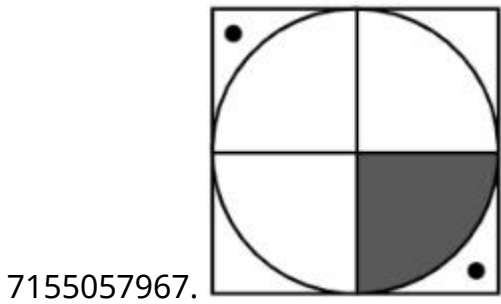
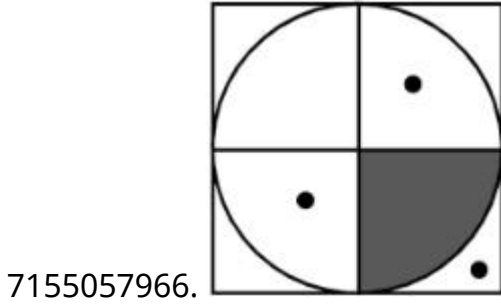
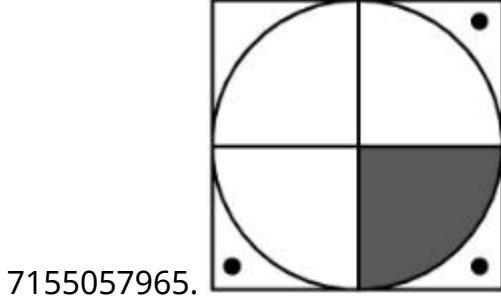
**Question Number : 77 Question Id : 7155052540 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે આપેલા જવાબો માંથી શ્રેણી પૂર્ણ કરતો જવાબ શોધો.



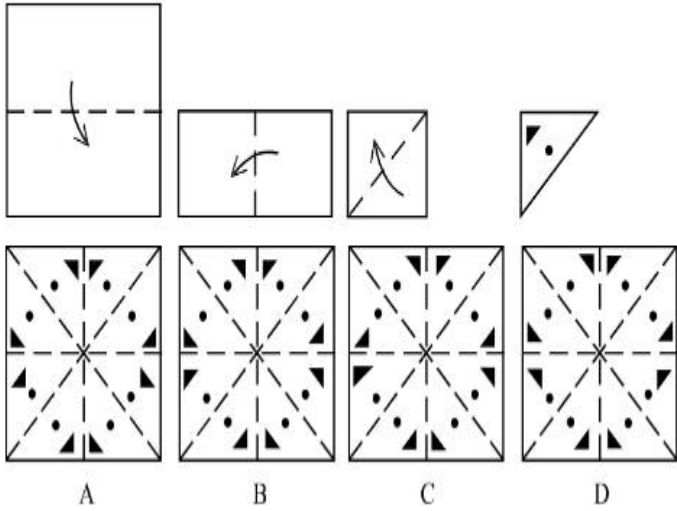
Options :



**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 :**

7155057969. B

7155057970. A

7155057971. D

7155057972. C

**Question Number : 78 Question Id : 7155052541 Question Type : MCQ Option Shuffling : Yes Is**

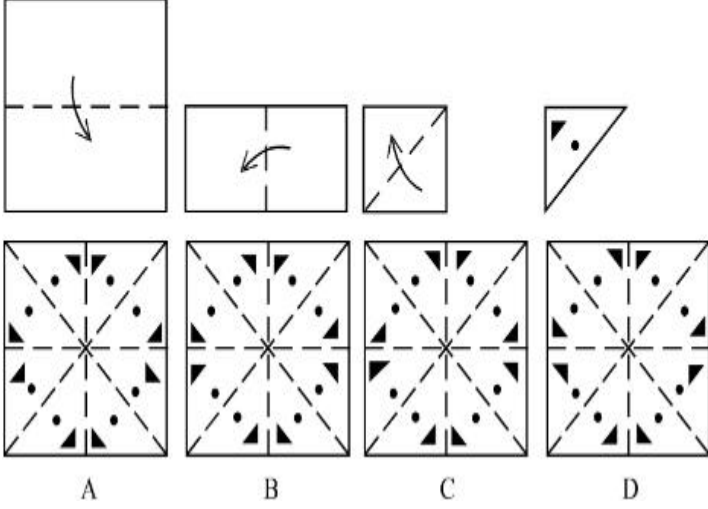
**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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



શીટને ચિહ્નિત ફોર્મેટમાં વાળવામાં આવે છે અને બતાવ્યાં પ્રમાણે છેલ્લે દોરી કાપવામાં આવે છે. નીચે આપેલા વિકલ્પો માંથી ઓળખો, જ્યારે તેની સ્પીરીલ (Spereel) ભાત (પેટર્ન) કેવી રીકે બનશે ?



**Options :**

7155057969. B

7155057970. A

7155057971. D

7155057972. C

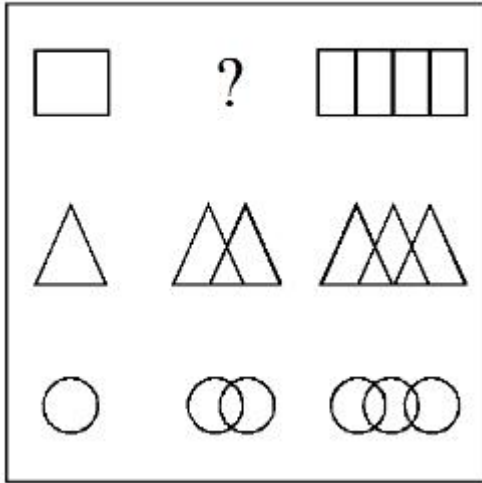
**Question Number : 79 Question Id : 7155052542 Question Type : MCQ Option Shuffling : Yes Is**

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

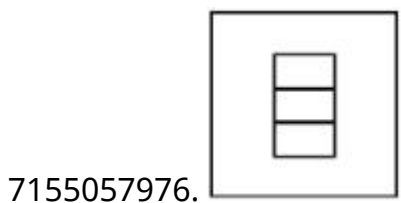
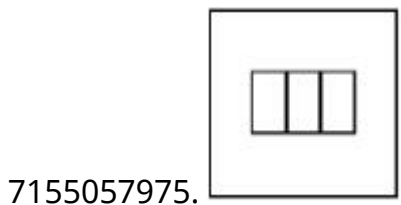
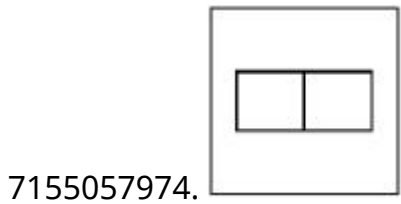
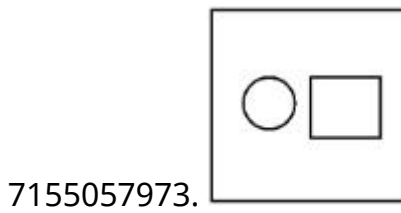
**Instruction Time : 0**

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

In the figure mentioned below find the missing series:-

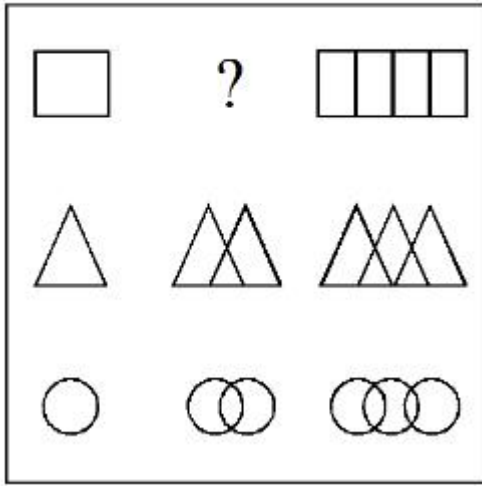


Options :

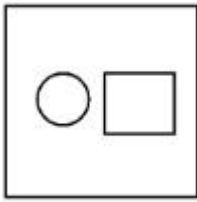


Question Number : 79 Question Id : 7155052542 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

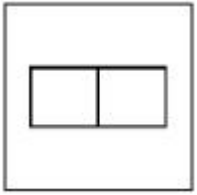
નીચે આપેલી આકૃતિ માંથી ખૂટતી (ગેરહાજર) શ્રેણી શોધો.



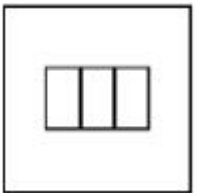
Options :



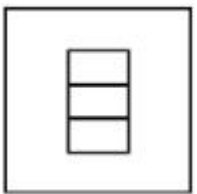
7155057973.



7155057974.



7155057975.



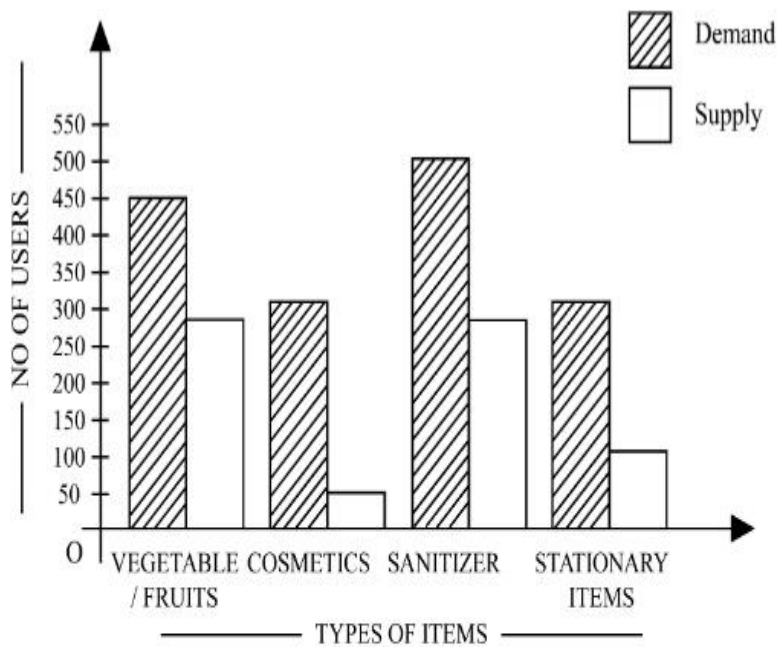
7155057976.

Question Number : 80 Question Id : 7155052543 Question Type : MCQ Option Shuffling : Yes 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 :**

7155057977. B and D only

7155057978. A and B only

7155057979. A and C only

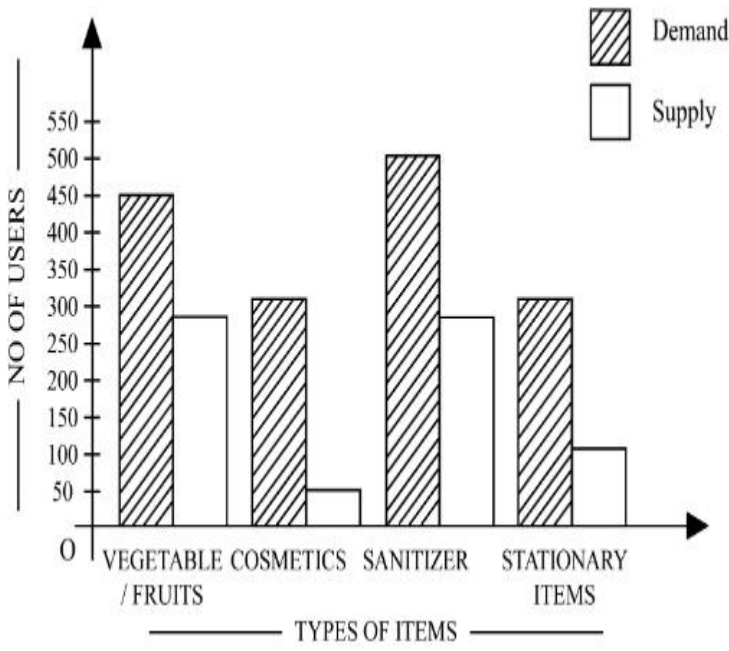
7155057980. B, C and D only

**Question Number : 80 Question Id : 7155052543 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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



રેખાકૃતિ વિવિધ વસ્તુઓ માટે વપરાશકર્તાઓની પૂરવઠો અને માંગ દર્શાવે છે. નીચે આપેલા વિકલ્પો માંથી સાચું શોધો.

- સેનિટાઇઝર 50% માંગ પૂરી કરે છે.
- સૌંદર્ય પ્રસાધનોમાં સૌથી ઓછો પુરવઠો હોય છે.
- બધામાં, બે વસ્તુઓની સમાન માંગ છે, પરંતુ પુરવઠામાં તફાવત છે.
- બધામાં બે વસ્તુઓ સમાન પુરવઠો ધરાવે છે પરંતુ માંગમાં તફાવત છે.

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ શોધો.

**Options :**

7155057977. ફક્ત B અને D

7155057978. ફક્ત A અને B

7155057979. ફક્ત A અને C

7155057980. ફક્ત B, C અને D

## Planning

<b>Section Number :</b>	4
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	25
<b>Number of Questions to be attempted :</b>	25
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	715505158
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 81 Question Id : 7155052544 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

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

**Options :**

7155057981. Poverty

7155057982. Abundance

7155057983. Adequacy

7155057984. Luxury

**Question Number : 81 Question Id : 7155052544 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

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

જ્યારે વ્યક્તિ એક જ સમયે અને સ્થાને અન્ય લોકોની સરખામણીમાં જીવનધોરણના લઘુત્તમ સ્તરને પૂર્ણ કરી શકતી નથી ત્યારે કહેવાય છે તે.

**Options :**

7155057981. ગરીબી

7155057982. વિપુલતા

7155057983. પર્યાપ્તતા

7155057984. વૈભવી

**Question Number : 82 Question Id : 7155052545 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

Acropolis in Greece is a/an:

**Options :**

7155057985. Court

7155057986. Citadel on a High Land

7155057987. Open Air Theatre

7155057988. Great Bath

**Question Number : 82 Question Id : 7155052545 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

ગ્રીસમાં એકોપોવિસ છે તે.

**Options :**

7155057985. અદાવત

7155057986. ઊંચી જમીન પર કિલ્લો

7155057987. ઓપન એર થિયેટર

7155057988. ગ્રેટબાથ

**Question Number : 83 Question Id : 7155052546 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

In Land-use map, identify the colour code used for recreational uses.

**Options :**

7155057989. Yellow

7155057990. Green

7155057991. Purple

7155057992. Blue

**Question Number : 83 Question Id : 7155052546 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

ઉપયોગી જમીન નકશામાં, મનોરંજનના ઉપયોગ માટે વપરાતો રંગ સંકેત (કોડ) શોધો.



**Options :**

7155057989. પીળો

7155057990. લીલો

7155057991. જાંબલી

7155057992. વાદળી

**Question Number : 84 Question Id : 7155052547 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

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

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

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

**Options :**

7155057993. Both Statement **I** and Statement **II** are true

7155057994. Both Statement **I** and Statement **II** are false

7155057995. Statement **I** is true but Statement **II** is false

7155057996. Statement **I** is false but Statement **II** is true

**Question Number : 84 Question Id : 7155052547 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે બે વિધાનો આપેલા છે.

**વિધાન I :** દિલ્હી શહેરનું યોજના રેડિયલ (ત્રિજય) સ્વરૂપમાં છે.

**વિધાન II :** દિલ્હી શહેરનું યોજના ગ્રીડ આર્યન સ્વરૂપમાં છે.

ઉપરના વિધાનોના સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155057993. બંને વિધાન I અને વિધાન II સાચા છે.

7155057994. બંને વિધાન I અને વિધાન II ખોટા છે.

7155057995. વિધાન I સાચું છે પણ વિધાન II ખોટું છે.

7155057996. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

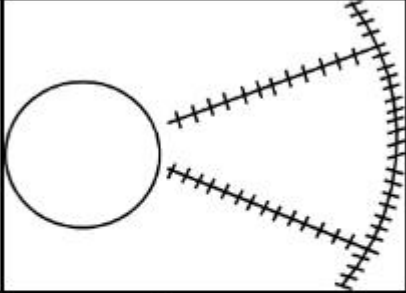
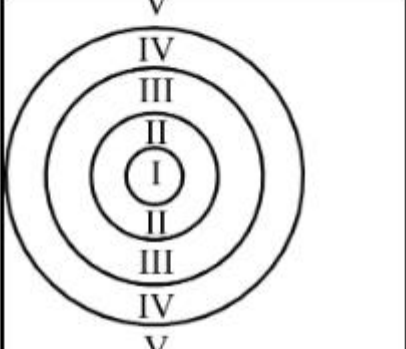
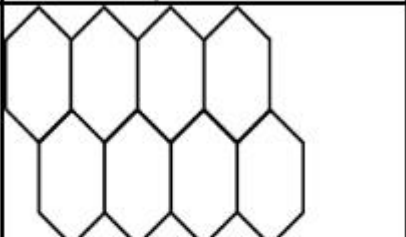
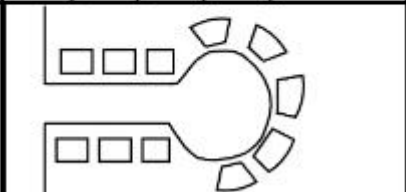
**Question Number : 85 Question Id : 7155052548 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

Match List I with List II

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

Choose the correct answer from the options given below:

**Options :**

7155057997. A-II, B-III, C-I, D-IV

7155057998. A-III, B-I, C-II, D-IV

7155057999. A-IV, B-III, C-I, D-II

7155058000. A-II, B-III, C-IV, D-I

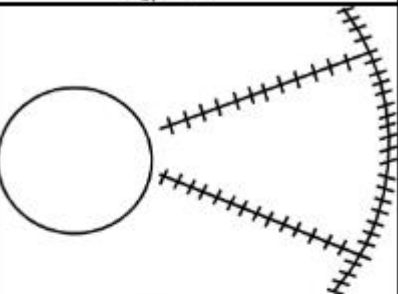
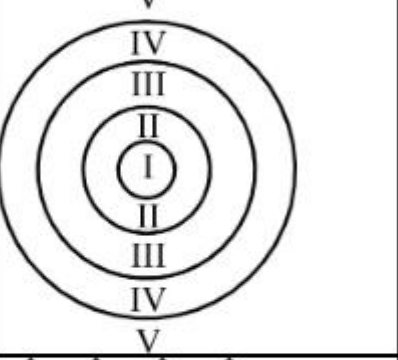
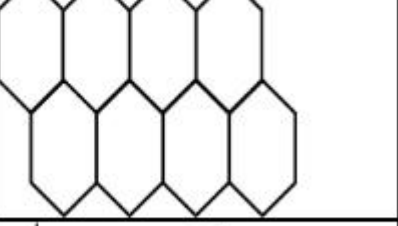
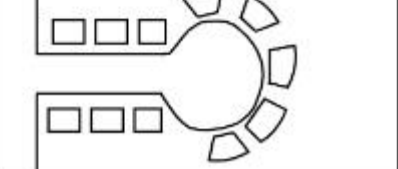
Question Number : 85 Question Id : 7155052548 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

સૂચિ I સાથે સૂચિ II ને જોડો.

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

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155057997. A-II, B-III, C-I, D-IV

7155057998. A-III, B-I, C-II, D-IV

7155057999. A-IV, B-III, C-I, D-II

7155058000. A-II, B-III, C-IV, D-I

Question Number : 86 Question Id : 7155052549 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Tower in the Park	I.	Sir Ebenezer Howards
B.	Neighbourhood Unit	II.	Le-Corbusier
C.	Garden City	III.	Clerence Perry
D.	Sector Model	IV.	Homer Hoyt

Choose the correct answer from the options given below:

Options :

7155058001. A-I, B-III, C-IV, D-II

7155058002. A-II, B-III, C-I, D-IV

7155058003. A-II, B-III, C-IV, D-I

7155058004. A-III, B-II, C-I, D-IV

Question Number : 86 Question Id : 7155052549 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ II	
A.	પાર્કમાં ટાવર (Tower in Park)	I.	Sir Ebenezer Howards
B.	પડોશી યુનિટ (Neighbourhood Unit)	II.	Le-Corbusier
C.	ગાર્ડન શહેર (Garden City)	III.	Clerence Perry
D.	સેક્ટર મોડલ (Sector Model)	IV.	Homes Hoyt's

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

Options :

7155058001. A-I, B-III, C-IV, D-II

7155058002. A-II, B-III, C-I, D-IV

7155058003. A-II, B-III, C-IV, D-I

7155058004. A-III, B-II, C-I, D-IV

**Question Number : 87 Question Id : 7155052550 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

Match List I with List II

LIST I		LIST II	
A.	1st Five Year Plan	I.	1969-1974
B.	4th Five Year Plan	II.	1951-1956
C.	8th Five Year Plan	III.	1992-1997
D.	11th Five Year Plan	IV.	2007-2012

Choose the correct answer from the options given below:

**Options :**

7155058005. A-I, B-II, C-III, D-IV

7155058006. A-II, B-I, C-III, D-IV

7155058007. A-II, B-III, C-IV, D-I

7155058008. A-II, B-I, C-IV, D-III

**Question Number : 87 Question Id : 7155052550 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ II	
A.	1 <sup>st</sup> પંચવર્ષીય યોજના	I.	1969-1974
B.	4 <sup>th</sup> પંચવર્ષીય યોજના	II.	1951-1956
C.	8 <sup>th</sup> પંચવર્ષીય યોજના	III.	1992-1997
D.	11 <sup>th</sup> પંચવર્ષીય યોજના	IV.	2007-2012

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155058005. A-I, B-II, C-III, D-IV

7155058006. A-II, B-I, C-III, D-IV

7155058007. A-II, B-III, C-IV, D-I

7155058008. A-II, B-I, C-IV, D-III

**Question Number : 88 Question Id : 7155052551 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

Match List I with List II

LIST I		LIST II	
A.	Madurai	I.	Planned Hill city
B.	Aurovile	II.	Kadamba Vanam
C.	Lavasa	III.	Grid Iron
D.	Chandigarh	IV.	Matri Mandir

Choose the correct answer from the options given below:

**Options :**

7155058009. A-IV, B-I, C-II, D-III

7155058010. A-IV, B-II, C-I, D-III

7155058011. A-I, B-II, C-IV, D-III

7155058012. A-II, B-IV, C-I, D-III

Question Number : 88 Question Id : 7155052551 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

સૂચિ I સાથે સૂચિ II ને જોડો.

સૂચિ I		સૂચિ II	
A.	મદુરાઈ	I.	Planned Hill city
B.	ઓરોવિલ	II.	Kadamba Vanam
C.	લવાસા	III.	Grid Iron
D.	ચંદ્રીગઢ	IV.	Matri Mandir

નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

Options :

7155058009. A-IV, B-I, C-II, D-III

7155058010. A-IV, B-II, C-I, D-III

7155058011. A-I, B-II, C-IV, D-III

7155058012. A-II, B-IV, C-I, D-III

Question Number : 89 Question Id : 7155052552 Question Type : MCQ Option Shuffling : Yes Is

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

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following article is related to Panchayati Raj ?

Options :



7155058013. Article 243

7155058014. Article 324

7155058015. Article 124

7155058016. Article 73

**Question Number : 89 Question Id : 7155052552 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

નીચે આપેલામાંથી કઈ અનુચ્છેદ પંચાયતી રાજ ને સંબંધિત છે ?

**Options :**

7155058013. અનુચ્છેદ 243

7155058014. અનુચ્છેદ 324

7155058015. અનુચ્છેદ 124

7155058016. અનુચ્છેદ 73

**Question Number : 90 Question Id : 7155052553 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

How many acres is 1 hectare?

**Options :**

7155058017. 2.47

7155058018. 3.47

7155058019. 4.47

7155058020. 5.47

**Question Number : 90 Question Id : 7155052553 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

1 હેક્ટર કેટલા એકર છે ?

**Options :**

7155058017. 2.47

7155058018. 3.47

7155058019. 4.47

7155058020. 5.47

**Question Number : 91 Question Id : 7155052554 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

What is the full form of the NITI ?

**Options :**

7155058021. National Institute for Transforming India

7155058022. National Industry for Technology India

7155058023. National Industry for Transforming India

7155058024. National Industrial Technical Institute

**Question Number : 91 Question Id : 7155052554 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

NITIનું આબુ (પૂર્ણ) સ્વરૂપ શું છે ?

**Options :**

7155058021. National Institute for Transforming India

7155058022. National Industry for Technology India

7155058023. National Industry for Transforming India

7155058024. National Industrial Technical Institute

**Question Number : 92 Question Id : 7155052555 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

The term "Conurbation" was coined by ?

**Options :**

7155058025. Kevin Lynch

7155058026. Patrick Geddes

7155058027. Ebenezer Howard

7155058028. Lewis Mumford

**Question Number : 92 Question Id : 7155052555 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

"Conurbation" શબ્દ કોના દ્વારા બનાવવામાં આવ્યો હતો ?

**Options :**

7155058025. Kevin Lynch

7155058026. Patrick Geddes

7155058027. Ebenezer Howard

7155058028. Lewis Mumford

**Question Number : 93 Question Id : 7155052556 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

Who is the planner of Durgapur city?

**Options :**

7155058029. Le Corbusier

7155058030. Ebenezer Howard

7155058031. Joseph Allen Stein

7155058032. Charles Correa

Question Number : 93 Question Id : 7155052556 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

દુર્ગાપુર શહેરના આયોજક કોણ છે ?

Options :

7155058029. Le Corbusier

7155058030. Ebenezer Howard

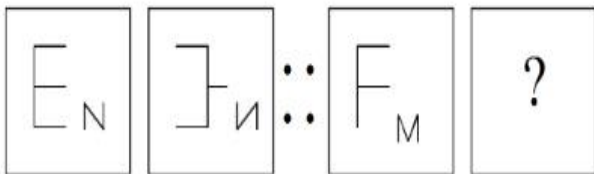
7155058031. Joseph Allen Stein

7155058032. Charles Correa

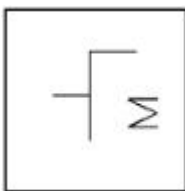
Question Number : 94 Question Id : 7155052557 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

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

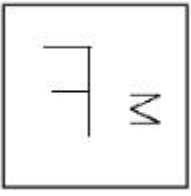


Options :



7155058033.

7155058034.



7155058035.



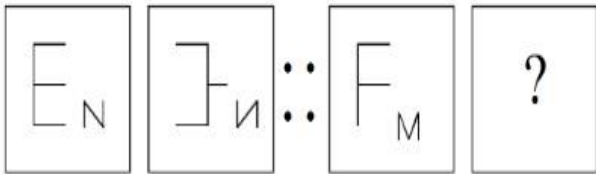
7155058036.



**Question Number : 94 Question Id : 7155052557 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

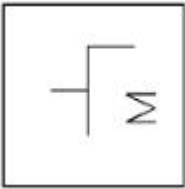
**Correct Marks : 4 Wrong Marks : 1**

સમસ્યાના આંકડામાં, A અને B ચૌક્કસ સંબંધ ધરાવે છે. C અને D વચ્ચે કયા જવાબના આંકડાસમાન સંબંધ ધરાવે છે તે ઓળખો ?

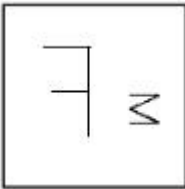


**Options :**

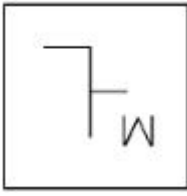
7155058033.



7155058034.



7155058035.



7155058036.



**Question Number : 95 Question Id : 7155052558 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

The Housing Development Finance Corporation Limited (HDFC) was founded in:

**Options :**

7155058037. 1947

7155058038. 1961

7155058039. 1977

7155058040. 1981

**Question Number : 95 Question Id : 7155052558 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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

હાઉસિંગ ડેવલપમેન્ટ ફાઇનાન્સ કોર્પોરેશન લિમિટેડ (HDFC) ની સ્થાપના થઈ હતી તે...

**Options :**

7155058037. 1947

7155058038. 1961

7155058039. 1977

7155058040. 1981

**Question Number : 96 Question Id : 7155052559 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

An essential feature of federal government is:

**Options :**

7155058041. Centralisation of Powers

7155058042. Division of Powers between various levels

7155058043. Opposition

7155058044. Unwritten Constitution

**Question Number : 96 Question Id : 7155052559 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0**

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

ફેડરલ સંઘીય સરકારનું એક આવશ્યક લક્ષણ છે.

**Options :**

7155058041. સત્તાનું કેન્દ્રીકરણ



7155058042. વિવિધ સ્તરો વચ્ચે સત્તાનું વિભાજન

7155058043. વિરોધ

7155058044. અવિખિત બંધારણ

**Question Number : 97 Question Id : 7155052560 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

Which of the following is not a public sector bank?

**Options :**

7155058045. ICICI

7155058046. State Bank of India

7155058047. Indian Bank

7155058048. Canara Bank

**Question Number : 97 Question Id : 7155052560 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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

નીચે આપેલામાંથી કઈ જાહેર ક્ષેત્રની બેંક નથી ?

**Options :**

7155058045. ICICI

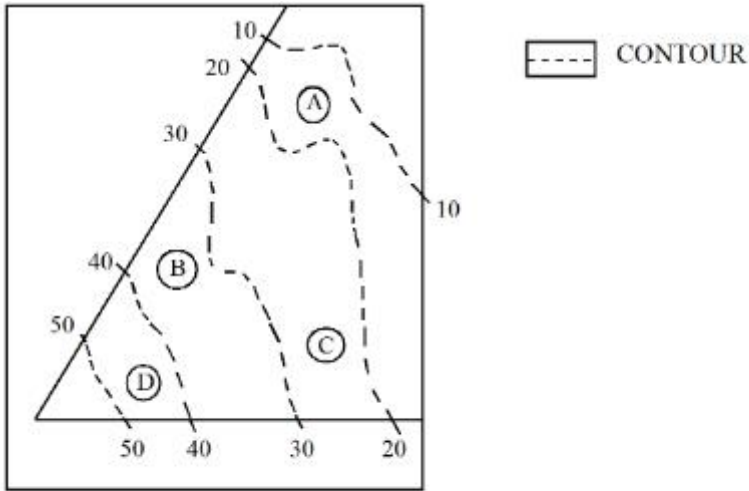
7155058046. સ્ટેટ બેંક ઓફ ઈન્ડિયા

7155058047. ઈન્ડિયન બેંક

7155058048. કેનેરા બેંક

**Question Number : 98 Question Id : 7155052561 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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



In the given diagram, the location of D on the site is:

**Options :**

7155058049. 30-40

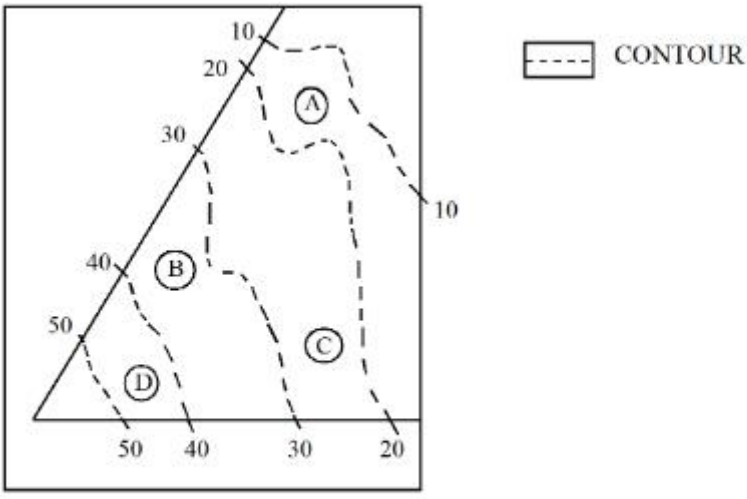
7155058050. 40-50

7155058051. 10-20

7155058052. 20-30

**Question Number : 98 Question Id : 7155052561 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

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



આપેલા રેખાકૃતિમાં, સાઈટ (જગ્યા) પર D નું સ્થાન છે તે...

**Options :**

7155058049. 30-40

7155058050. 40-50

7155058051. 10-20

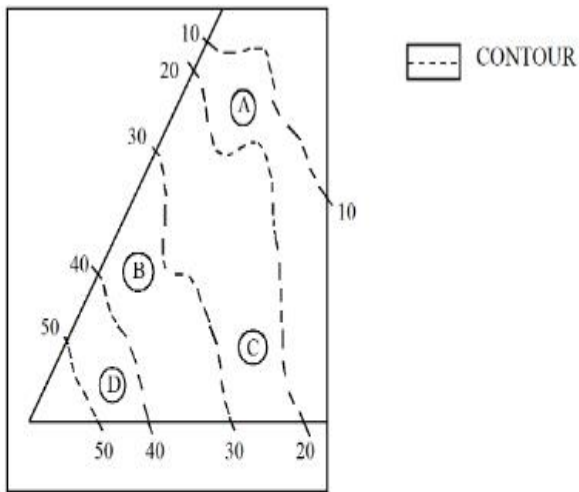
7155058052. 20-30

**Question Number : 99 Question Id : 7155052562 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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



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

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

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

**Options :**

7155058053. Both Statement **I** and Statement **II** are true

7155058054. Both Statement **I** and Statement **II** are false

7155058055. Statement **I** is true but Statement **II** is false

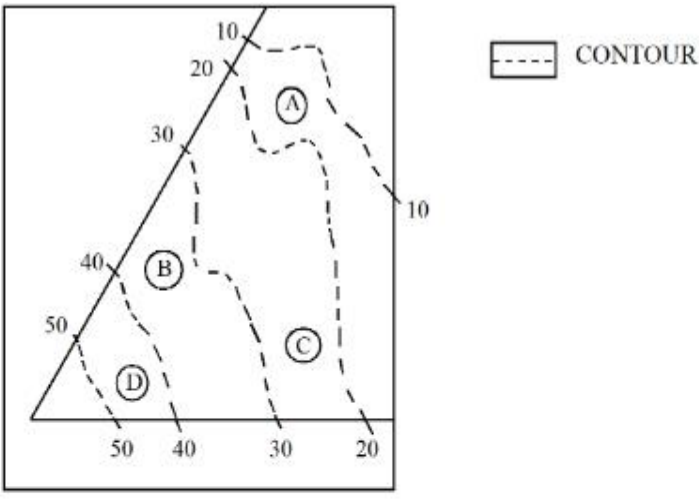
7155058056. Statement **I** is false but Statement **II** is true

**Question Number : 99 Question Id : 7155052562 Question Type : MCQ Option Shuffling : Yes Is**

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

**Instruction Time : 0**

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



નીચે બે વિધાનો આપેલા છે.

**વિધાન I :** આપેલ રેખાકૃતિ માં, B નું સ્થાન C કરતાં ઊંચું છે.

**વિધાન II :** આપેલ રેખાકૃતિ માં, A નું સ્થાન C કરતાં નીચું છે.

ઉપરના વિધાનોના સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155058053. બંને વિધાન I અને વિધાન II સાચા છે.

7155058054. બંને વિધાન I અને વિધાન II ખોટા છે.

7155058055. વિધાન I સાચું છે પણ વિધાન II ખોટું છે.

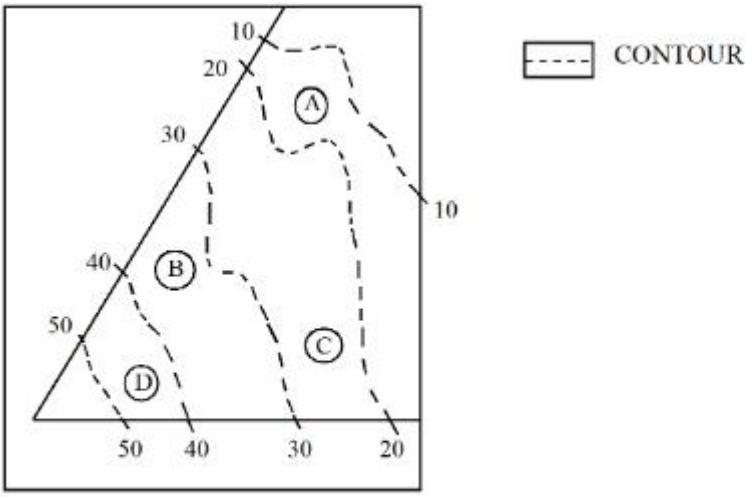
7155058056. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

**Question Number : 100 Question Id : 7155052563 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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



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

**Options :**

7155058057. 20-30

7155058058. 30-40

7155058059. 10-20

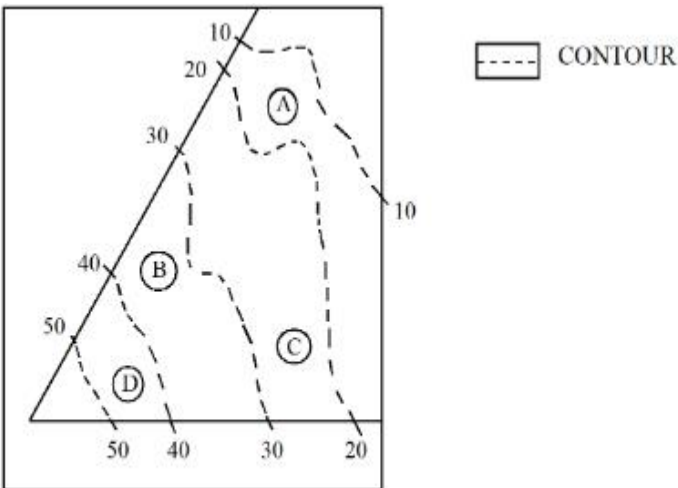
7155058060. 40-50

**Question Number : 100 Question Id : 7155052563 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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



આપેલ રેખાકૃતિ માં, A નું સ્થાન કયા સમોચ્ચ (પરિઘરેખા) (contour) પર આવેલ છે ?

**Options :**

7155058057. 20-30

7155058058. 30-40

7155058059. 10-20

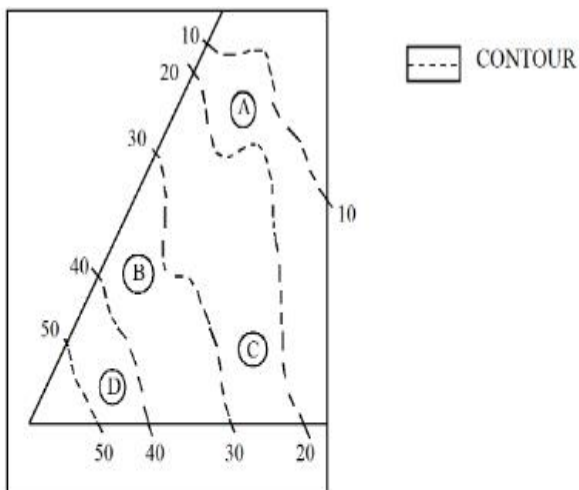
7155058060. 40-50

**Question Number : 101 Question Id : 7155052564 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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



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

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

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

**Options :**

7155058061. Both Statement **I** and Statement **II** are true

7155058062. Both Statement **I** and Statement **II** are false

7155058063. Statement **I** is true but Statement **II** is false

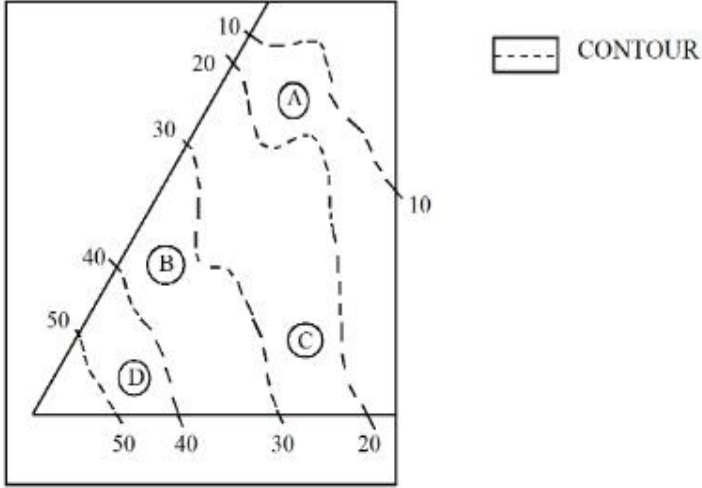
7155058064. Statement I is false but Statement II is true

Question Number : 101 Question Id : 7155052564 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



નીચે બે વિધાનો આપેલા છે.

**વિધાનો I:** 'A' સાઈટના સૌથી નીચા બિંદુએ સ્થિત છે.

**વિધાનો II:** 'A' સાઈટ પર 'B' કરતાં નીચલા બિંદુએ સ્થિત છે.

ઉપરના વિધાનોના સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155058061. બંને વિધાન I અને વિધાન II સાચા છે.

7155058062. બંને વિધાન I અને વિધાન II ખોટા છે.

7155058063. વિધાન I સાચું છે પણ વિધાન II ખોટું છે.

7155058064. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

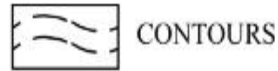
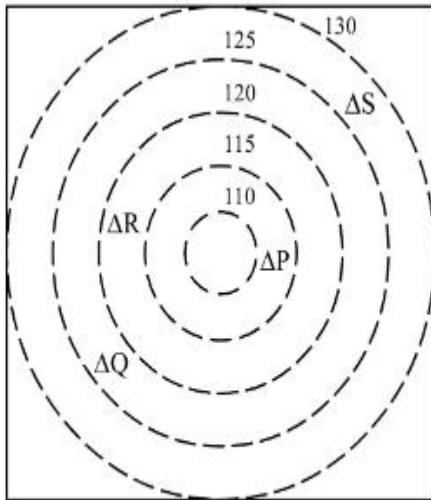


Question Number : 102 Question Id : 7155052565 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



CONTOURS

Δ BUILDINGS

ALL DIENSIONS ARE  
IN "M"

In the given diagram, how many contour levels are present in between "P" and "S"

Options :

7155058065. 2

7155058066. 3

7155058067. 1

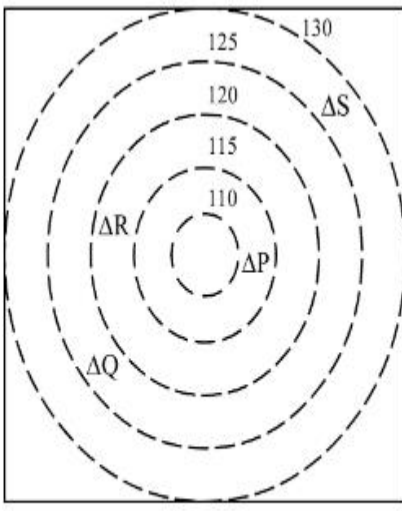
7155058068. 4

Question Number : 102 Question Id : 7155052565 Question Type : MCQ Option Shuffling : Yes


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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

આપેલ રેખાકૃતિમાં, "P" અને "S" વચ્ચે કેટલા સમોરચ (પરિઘરેખા) (contour) સ્તરો હાજર છે ?

**Options :**

7155058065. 2

7155058066. 3

7155058067. 1

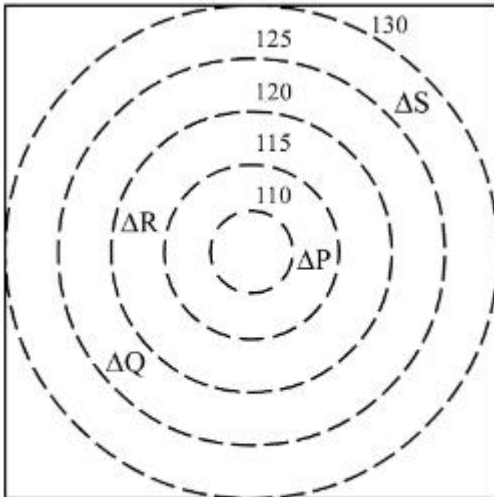
7155058068. 4

**Question Number : 103 Question Id : 7155052566 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

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

**Options :**

7155058069. 5

7155058070. 10

7155058071. 25

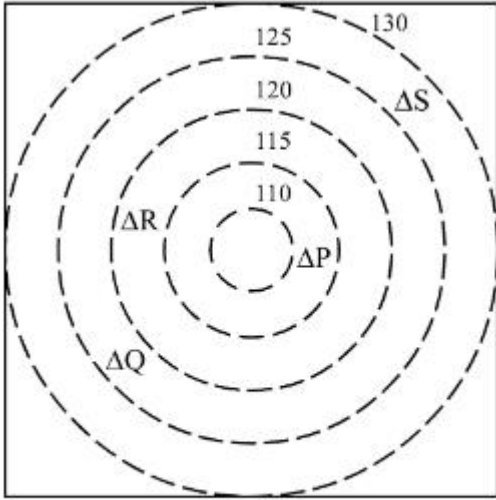
7155058072. 15


**Question Number : 103 Question Id : 7155052566 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

આપેલ રેખાકૃતિમાં, "S" એ "R" થી \_\_\_\_\_ મીટર કરતાં વધારે છે.

**Options :**

7155058069. 5

7155058070. 10

7155058071. 25

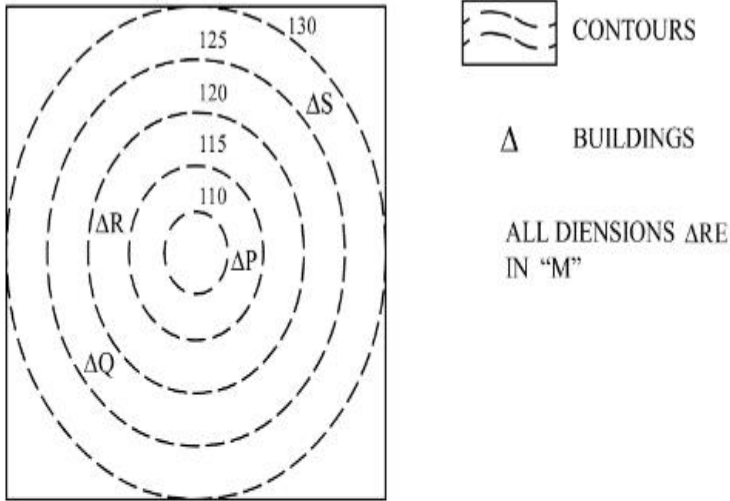
7155058072. 15

Question Number : 104 Question Id : 7155052567 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



Based on the given diagram:

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

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

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

**Options :**

7155058073. Both Statement **I** and Statement **II** are true

7155058074. Both Statement **I** and Statement **II** are false

7155058075. Statement **I** is true but Statement **II** is false

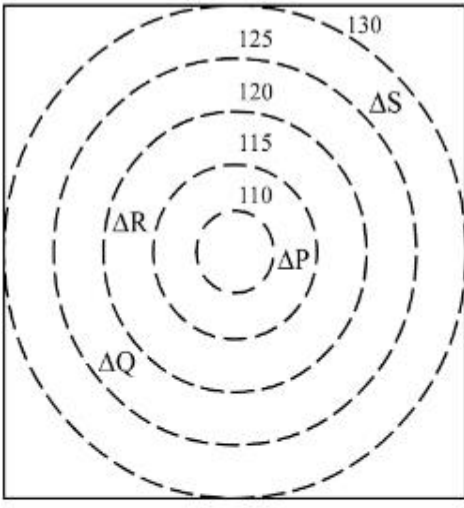
7155058076. Statement **I** is false but Statement **II** is true

Question Number : 104 Question Id : 7155052567 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



CONTOURS

Δ BUILDINGS

ALL DIENSIONS ARE  
IN "M"

આપેલા રેખાકૃતિના આધારે

**વિધાન I :** "R" એ "P" અને "Q" કરતાં ઊંચું (વધારે) છે.

**વિધાન II :** "S" એ "P", "Q" અને "R" કરતા ઊંચું (વધારે) છે.

ઉપરના વિધાનોના સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155058073. બંને વિધાન I અને વિધાન II સાચા છે.

7155058074. બંને વિધાન I અને વિધાન II ખોટા છે.

7155058075. વિધાન I સાચું છે પણ વિધાન II ખોટું છે.

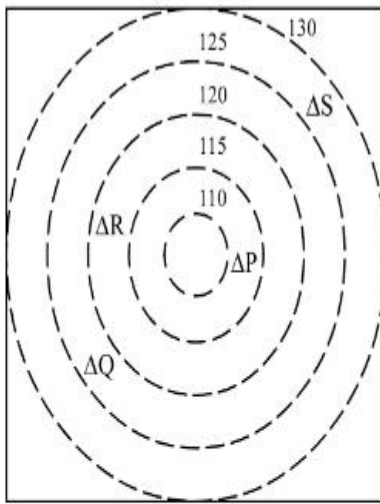
7155058076. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.

**Question Number : 105 Question Id : 7155052568 Question Type : MCQ Option Shuffling : Yes**

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

**Minimum Instruction Time : 0**

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



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

Based on the given diagram:

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

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

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

**Options :**

7155058077. Both Statement **I** and Statement **II** are true

7155058078. Both Statement **I** and Statement **II** are false

7155058079. Statement **I** is true but Statement **II** is false

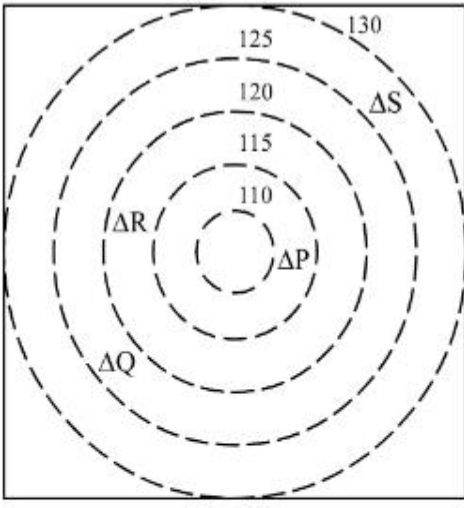
7155058080. Statement **I** is false but Statement **II** is true

**Question Number : 105 Question Id : 7155052568 Question Type : MCQ Option Shuffling : Yes**


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

**Minimum Instruction Time : 0**

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



 CONTOURS

 BUILDINGS

ALL DIENSIONS ARE  
IN "M"

આપેલ રેખાકૃતિના આધારે

**વિધાન I :** "P" એ 110 M ની ઊંચાઈ પર સ્થિત છે.

**વિધાન II :** "Q" એ "S" કરતાં 5 M નીચું સ્થિત છે.

ઉપરના વિધાનોના સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

**Options :**

7155058077. બંને વિધાન I અને વિધાન II સાચા છે.

7155058078. બંને વિધાન I અને વિધાન II ખોટા છે.

7155058079. વિધાન I સાચું છે પણ વિધાન II ખોટું છે.

7155058080. વિધાન I ખોટું છે પણ વિધાન II સાચું છે.