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**Question Paper Name :** B PLANNING AND B ARCH ETE 23rd Feb  
2021 Shift 2

**Subject Name :** B PLANNING AND B ARCH ETE

**Creation Date :** 2021-02-22 14:23:49

**Duration :** 210

**Number of Questions :** 107

**Total Marks :** 500

**Display Marks:** Yes

## **B PLANNING AND B ARCH ETE**

**Group Number :** 1

**Group Id :** 708191144

**Group Maximum Duration :** 0

**Group Minimum Duration :** 210

**Show Attended Group? :** No

**Edit Attended Group? :** No

**Break time :** 0

**Group Marks :** 500

**Is this Group for Examiner? :** No

## **Mathematics Section A**

**Section Id :** 708191468

**Section Number :** 1

**Section type :** 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>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191748
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 70819113428 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

The value of the integral  $\int_{-4}^4 |9-x^2| dx$  is :

**Options :**

70819144391.  $\frac{121}{3}$

70819144392.  $\frac{122}{3}$

70819144393.  $\frac{125}{3}$

70819144394.  $\frac{128}{3}$

**Question Number : 1 Question Id : 70819113428 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

సమాకలని  $\int_{-4}^4 |9-x^2| dx$  విలువ :

**Options :**

70819144391.  $\frac{121}{3}$

70819144392.  $\frac{122}{3}$

70819144393.  $\frac{125}{3}$

70819144394.  $\frac{128}{3}$

**Question Number : 2 Question Id : 70819113429 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

The sum of infinite number of terms of a Geometric Progression is 3 and the sum of the squares of its terms is  $\frac{9}{2}$ . The sum of the cubes of its terms is :

**Options :**

70819144395.  $\frac{31}{13}$

70819144396.  $\frac{108}{13}$

70819144397.  $\frac{27}{2}$

70819144398.  $\frac{54}{7}$

Question Number : 2 Question Id : 70819113429 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ఒక గుణశ్రేణి లోని అనంత పదాల మొత్తము 3 మరియు దాని పదాల వర్గాల మొత్తము  $\frac{9}{2}$ . శ్రేణిలోని పదాల ఘనాల మొత్తము :

Options :

70819144395.  $\frac{31}{13}$

70819144396.  $\frac{108}{13}$

70819144397.  $\frac{27}{2}$

70819144398.  $\frac{54}{7}$

Question Number : 3 Question Id : 70819113430 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following Boolean expression is a tautology ?

Options :

70819144399.  $P \Leftrightarrow P \vee q$

70819144400.  $(P \wedge q) \Leftrightarrow P$

70819144401.  $(P \wedge (\sim P \vee q)) \vee (\sim q)$



70819144402.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 3 Question Id : 70819113430 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

క్రింది ఏ బూలియన్ సమాసము నిత్యసత్యం ?

**Options :**

70819144399.  $P \Leftrightarrow P \vee q$

70819144400.  $(P \wedge q) \Leftrightarrow P$

70819144401.  $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819144402.  $(P \vee \sim P) \wedge (q \vee (\sim q))$

**Question Number : 4 Question Id : 70819113431 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

Let  $|a| < 1, |b| < 1, |c| < 1$  and  $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$ . If  $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$  are in Arithmetic

Progression, then :

**Options :**

70819144403. a, b and c are in Arithmetic Progression

70819144404. a, b and c are in Geometric Progression

70819144405. a, 2b and c are in Arithmetic Progression

70819144406. a, b and c satisfy  $2b^2 = ac$

**Question Number : 4 Question Id : 70819113431 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

$|a| < 1, |b| < 1, |c| < 1$  మరియు  $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$  అనుకొందాం.  $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$  లు అంక

శ్రేణిలో వుంటే :

**Options :**

70819144403. a, b, c లు అంకశ్రేణిలో వుంటాయి

70819144404. a, b, c లు గుణశ్రేణిలో వుంటాయి

70819144405. a, 2b, c లు అంకశ్రేణిలో వుంటాయి

70819144406. a, b, c లు  $2b^2 = ac$  ని తృప్తి పరుస్తాయి

**Question Number : 5 Question Id : 70819113432 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$  is equal to :

**Options :**

70819144407.  $15e + 5$

70819144408.  $15e - 5$

70819144409.  $16e - 5$

70819144410.  $16e - 7$

**Question Number : 5 Question Id : 70819113432 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

$$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!} =:$$

**Options :**

70819144407.  $15e + 5$

70819144408.  $15e - 5$

70819144409.  $16e - 5$

70819144410.  $16e - 7$

**Question Number : 6 Question Id : 70819113433 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

The least positive integral value of  $\lambda$  such that  $10^{50} + (3 \times (4)^{52}) + \lambda$  is divisible by 9 is :

**Options :**

70819144411. 5

70819144412. 3

70819144413. 7

70819144414. 1

**Question Number : 6 Question Id : 70819113433 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

$10^{50} + (3 \times (4)^{52}) + \lambda$  అనునది 9 చే భాగించబడేటట్లుగా వుండే  $\lambda$  యొక్క కనిష్ట ధనపూర్ణ సంఖ్య :

**Options :**

70819144411. 5

70819144412. 3

70819144413. 7

70819144414. 1

**Question Number : 7 Question Id : 70819113434 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

There are 4, 5 and 6 points on the three parallel and co-planar lines. If no set of four or more points is cyclic and no set of three points lying on distinct lines is collinear, then the number of circles passing through exactly three points is :

**Options :**

70819144415. 455

70819144416. 421

70819144417. 435

70819144418. 441

Question Number : 7 Question Id : 70819113434 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

మూడు సమాంతర మరియు సతలీయ రేఖలపై 4, 5 మరియు 6 బిందువులు వున్నాయి. నాలుగు లేదా అంతకంటే ఎక్కువ బిందువులుండే సమితి చక్రీయము కాకపోతే మరియు విభిన్న రేఖలపై వుండే మూడు బిందువుల సమితి సరేఖీయాలు కాకపోతే ఖచ్చితంగా మూడు బిందువుల గుండా పోయే వృత్తాల సంఖ్య :

Options :

70819144415. 455

70819144416. 421

70819144417. 435

70819144418. 441

Question Number : 8 Question Id : 70819113435 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

If  $y = \frac{ax - b}{(x - 1)(x - 4)}$  has an extremum at the point  $(2, -1)$ , then the values of a and b are :

Options :

70819144419.  $a = 1, b = 0$

70819144420.  $a = 0, b = 1$

70819144421.  $a = 0, b = -1$

70819144422.  $a = -1, b = 1$

Question Number : 8 Question Id : 70819113435 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

బిందువు  $(2, -1)$  వద్ద  $y = \frac{ax - b}{(x - 1)(x - 4)}$  అంత్యవిలువను కల్గియుంటే  $a, b$  ల విలువలు :

Options :

70819144419.  $a = 1, b = 0$

70819144420.  $a = 0, b = 1$

70819144421.  $a = 0, b = -1$

70819144422.  $a = -1, b = 1$

Question Number : 9 Question Id : 70819113436 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The distance between the planes  $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$  and  $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$  is :

Options :

70819144423.  $\frac{9}{13}$

70819144424.  $\frac{15}{4}$

70819144425.  $\frac{13}{9}$

70819144426.  $\frac{1}{13}$

Question Number : 9 Question Id : 70819113436 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$  మరియు  $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$  తలల మధ్య దూరము :

Options :

70819144423.  $\frac{9}{13}$

70819144424.  $\frac{15}{4}$

70819144425.  $\frac{13}{9}$

70819144426.  $\frac{1}{13}$

Question Number : 10 Question Id : 70819113437 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The probability of solving a problem in Mathematics by two students X and Y are  $\frac{1}{4}$  and  $\frac{1}{5}$  respectively. If both of them try to solve the problem independently, then the probability that the problem will be solved by exactly one of them is equal to :

Options :

70819144427.  $\frac{7}{20}$

70819144428.  $\frac{1}{20}$

70819144429.  $\frac{19}{20}$

70819144430.  $\frac{12}{20}$

**Question Number : 10 Question Id : 70819113437 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

ఇద్దరు విద్యార్థులు X మరియు Y లచే గణితంలో ఒక సమస్యను సాధించే సంభావ్యతలు వరుసగా  $\frac{1}{4}$  మరియు

$\frac{1}{5}$ . ఈ సమస్యను ఇద్దరు విద్యార్థులు సాధించుటకు స్వతంత్రముగా ప్రయత్నిస్తే ఇద్దరిలో ఖచ్చితంగా ఒకరు సమస్యను సాధించే సంభావ్యత :

**Options :**

70819144427.  $\frac{7}{20}$

70819144428.  $\frac{1}{20}$

70819144429.  $\frac{19}{20}$

70819144430.  $\frac{12}{20}$

**Question Number : 11 Question Id : 70819113438 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

The polar form of the complex number  $\frac{1+i}{1-i}$  is equal to :



**Options :**

70819144431.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819144432.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819144433.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819144434.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 11 Question Id : 70819113438 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

సంకీర్ణ సంఖ్య  $\frac{1+i}{1-i}$  యొక్క ధృవ రూపము :

**Options :**

70819144431.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819144432.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819144433.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819144434.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 12 Question Id : 70819113439 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

If the equation of a line which divides the line segment joining the points (1, 0) and (3, 0) in the ratio 2 : 1 and is also perpendicular to it, is  $ax = 7$ , then the value of a is equal to :

**Options :**

70819144435. <sup>2</sup>

70819144436. <sup>3</sup>

70819144437. <sup>4</sup>

70819144438. <sup>1</sup>

**Question Number : 12 Question Id : 70819113439 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

బిందువులు (1, 0) మరియు (3, 0) ల గుండా పోయే రేఖను 2 : 1 నిష్పత్తిలో విభజిస్తూ ఈ రేఖకు లంబంగా వుండే రేఖా సమీకరణం  $ax = 7$  అయితే a విలువ :

**Options :**

70819144435. <sup>2</sup>

70819144436. <sup>3</sup>

70819144437. <sup>4</sup>

70819144438. <sup>1</sup>

**Question Number : 13 Question Id : 70819113440 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Equation of the circle, which is the mirror image of the circle  $x^2 + y^2 - 2x = 0$  with respect to the line  $x + y = 2$ , is :

**Options :**

70819144439.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819144440.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819144441.  $2(x^2 + y^2) - x + y + 1 = 0$

70819144442.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 13 Question Id : 70819113440 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

సరళరేఖ  $x + y = 2$  దృష్ట్యా, వృత్తము  $x^2 + y^2 - 2x = 0$  యొక్క దర్పణ ప్రతిబింబమయ్యే వృత్త సమీకరణం :

**Options :**

70819144439.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819144440.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819144441.  $2(x^2 + y^2) - x + y + 1 = 0$

70819144442.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 14 Question Id : 70819113441 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Equations of the common tangent of the ellipse  $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$  and the circle  $(x+1)^2 + (y-1)^2 = 4$  are :

**Options :**

70819144443.  $y+3=0$  and  $x-1=0$

70819144444.  $x-3=0$  and  $y+1=0$

70819144445.  $x+3=0$  and  $x-1=0$

70819144446.  $y+3=0$  and  $y-1=0$

**Question Number : 14 Question Id : 70819113441 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

అతి పరావలయం  $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$  మరియు వృత్తము  $(x+1)^2 + (y-1)^2 = 4$  లకు ఉమ్మడి స్పర్శ

రేఖల సమీకరణాలు :

**Options :**

70819144443.  $y+3=0$  మరియు  $x-1=0$

70819144444.  $x-3=0$  మరియు  $y+1=0$

70819144445.  $x+3=0$  మరియు  $x-1=0$

70819144446.  $y+3=0$  మరియు  $y-1=0$

**Question Number : 15 Question Id : 70819113442 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

If  $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$ , then  $A^k$  ( $k \in \mathbb{N}$ ) is :

**Options :**

70819144447.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819144448.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819144449.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819144450.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

**Question Number : 15 Question Id : 70819113442 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

$A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$ , అయితే ( $k \in \mathbb{N}$ ) కు  $A^k$  :

**Options :**

70819144447.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819144448.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819144449.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819144450.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

**Question Number : 16 Question Id : 70819113443 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

The values of s and t, for which the system of equations

$$x_1 + x_2 + x_3 = 5$$

$$x_1 + 2x_2 + 3x_3 = 9$$

$$x_1 + 3x_2 + sx_3 = t$$

has no solution, are :

**Options :**

70819144451.  $s = 5, t = 13$

70819144452.  $s \neq 5$

70819144453.  $s = 5, t \neq 13$

70819144454.  $t \neq 13$

**Question Number : 16 Question Id : 70819113443 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

సమీకరణాల వ్యవస్థ

$$x_1 + x_2 + x_3 = 5$$

$$x_1 + 2x_2 + 3x_3 = 9$$

$$x_1 + 3x_2 + sx_3 = t$$

సాధన లేనిచో s మరియు t విలువలు :

**Options :**

70819144451.  $s = 5, t = 13$

70819144452.  $s \neq 5$

70819144453.  $s=5, t \neq 13$

70819144454.  $t \neq 13$

**Question Number : 17 Question Id : 70819113444 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

Derivative of  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  with respect to  $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  in  $(1, \infty)$ , is :

**Options :**

70819144455. 1

70819144456. -1

70819144457. 0

70819144458. 2

**Question Number : 17 Question Id : 70819113444 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

అంతరం  $(1, \infty)$  లో  $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  దృష్ట్యా  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  యొక్క అవకలజము :

**Options :**

70819144455. 1

70819144456. -1

70819144457. 0

70819144458. 2

**Question Number : 18 Question Id : 70819113445 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Let  $\vec{a}$ ,  $\vec{b}$  and  $\vec{c}$  be three vectors such that  $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$ . If  $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$ , then

the acute angle between  $\vec{a}$  and  $\vec{c}$  is :

**Options :**

70819144459.  $\frac{\pi}{6}$

70819144460.  $\frac{\pi}{4}$

70819144461.  $\frac{\pi}{3}$

70819144462.  $\frac{5\pi}{12}$

**Question Number : 18 Question Id : 70819113445 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



$|\vec{a}|=|\vec{b}|=\frac{|\vec{c}|}{2}=1$  అయ్యేటట్లుగా వుండే మూడు సదిశలు  $\vec{a}, \vec{b}$  మరియు  $\vec{c}$  అనుకొందాం.

$\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$  అయితే  $\vec{a}$  మరియు  $\vec{c}$  ల మధ్య లఘుకోణము :

**Options :**

70819144459.  $\frac{\pi}{6}$

70819144460.  $\frac{\pi}{4}$

70819144461.  $\frac{\pi}{3}$

70819144462.  $\frac{5\pi}{12}$

**Question Number : 19 Question Id : 70819113446 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Solution of the differential equation  $(1 + y^2)dx = (\tan^{-1}y - x)dy$  is :  
(where c is an arbitrary constant)

**Options :**

70819144463.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819144464.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819144465.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819144466.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 19 Question Id : 70819113446 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

అవకలన సమీకరణము  $(1 + y^2)dx = (\tan^{-1}y - x)dy$  యొక్క సాధన :

(ఇచ్చట  $c$  ఒక యాదృచ్ఛిక స్థిరాంకము)

Options :

70819144463.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819144464.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819144465.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819144466.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819113447 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The values of  $x$ , for which the vectors  $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$  make acute angles with the (positive directions of) coordinate axes lie in :

Options :

70819144467.  $[-5, -4] \cup [4, 5]$

70819144468.  $[-5, 4] \cup (-4, 5]$

70819144469.  $(-5, -4) \cup (4, 5)$

70819144470.  $(-5, 4) \cup (-4, 5)$

Question Number : 20 Question Id : 70819113447 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

నిరూపక అక్షాలతో ధన దిశలో లఘు కోణం చేసే సదిశలు  $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$  అయ్యేటట్లుగా

ఉండుటకు గల  $x$  అంతరము :

Options :

70819144467.  $[-5, -4] \cup [4, 5]$

70819144468.  $[-5, 4) \cup (-4, 5]$

70819144469.  $(-5, -4) \cup (4, 5)$

70819144470.  $(-5, 4) \cup (-4, 5)$

## Mathematics Section B

Section Id :	708191469
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	5
Section Marks :	20
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191749
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 70819113448 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx \text{ is } \underline{\hspace{2cm}}.$$

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 21 Question Id : 70819113448 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx = \underline{\hspace{2cm}}.$$

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 22 Question Id : 70819113449 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The minimum value of  $9\tan^2\theta + 4\cot^2\theta$  is                     .

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 22 **Question Id :** 70819113449 **Question Type :** SA

**Correct Marks :** 4 **Wrong Marks :** 0

$9\tan^2\theta + 4\cot^2\theta$  యొక్క కనిష్ఠ విలువ \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 23 **Question Id :** 70819113450 **Question Type :** SA

**Correct Marks :** 4 **Wrong Marks :** 0

The length of the perpendicular from the point (1, 2, 3) to the line  $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$  is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 23 **Question Id :** 70819113450 **Question Type :** SA

**Correct Marks : 4 Wrong Marks : 0**

బిందువు (1, 2, 3) నుండి సరళరేఖ  $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$  కు గల లంబదూరము \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 24 Question Id : 70819113451 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

If  $\log_3 2, \log_3 (2^x - 5)$  and  $\log_3 \left(2^x - \frac{7}{2}\right)$  are in Arithmetic Progression, then the value of  $x$  is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 24 Question Id : 70819113451 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

$\log_3 2, \log_3 (2^x - 5)$  మరియు  $\log_3 \left(2^x - \frac{7}{2}\right)$  లు అంకశ్రేణిలో వుంటే  $x$  విలువ \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 25 **Question Id :** 70819113452 **Question Type :** SA

**Correct Marks :** 4 **Wrong Marks :** 0

If  $x^2+x+1=0$ , then  $-\left\{\left(x-\frac{1}{x}\right)^2+\left(x^2-\frac{1}{x^2}\right)^2+\left(x^3-\frac{1}{x^3}\right)^2\right\}$  is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 25 **Question Id :** 70819113452 **Question Type :** SA

**Correct Marks :** 4 **Wrong Marks :** 0

$x^2+x+1=0$ , అయితే  $-\left\{\left(x-\frac{1}{x}\right)^2+\left(x^2-\frac{1}{x^2}\right)^2+\left(x^3-\frac{1}{x^3}\right)^2\right\}$  = \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 26 **Question Id :** 70819113453 **Question Type :** SA

**Correct Marks : 4 Wrong Marks : 0**

$x^2 + y^2 - 4x - 2y - 11 = 0$  is a circle to which tangents are drawn from the point (4, 5) which form a quadrilateral with a pair of radii. The area of this quadrilateral in square units is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 26 Question Id : 70819113453 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

బిందువు (4, 5) నుండి వృత్తము  $x^2 + y^2 - 4x - 2y - 11 = 0$  నకు గీయబడిన స్పర్శరేఖలు మరియు వృత్తము యొక్క జంట వ్యాసార్థములు ఒక చతురస్రాన్ని ఏర్పరచును. ఇట్టి చతురస్రము యొక్క వైశాల్యము చదరపు యూనిట్లలో \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 27 Question Id : 70819113454 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

If the sum of mean and variance of a binomial distribution is 15 and the sum of their squares is 117, then the number of independent trials is equal to \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes



**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 27 Question Id : 70819113454 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

ఒక ద్విపద విభాజనము యొక్క మధ్యమము మరియు విస్తృతమొత్తము 15 మరియు వాటి వర్గాల మొత్తము 117 అయితే స్వతంత్ర యత్నాల సంఖ్య సమానము \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 28 Question Id : 70819113455 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

Let the equation of the plane passing through the points (1, 2, 6), (2, 5, 7) and perpendicular to the plane  $4x - y + z = 15$  be  $ax + by + cz + d = 0$ . If  $a, b, c, d \in \mathbb{Z}$  with  $\gcd(|a|, |b|, |c|) = 1$ , then  $|a + b + c + d|$  is equal to \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 28 Question Id : 70819113455 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

బిందువులు (1, 2, 6) మరియు (2, 5, 7) ల గుండా పోతూ  $4x - y + z = 15$  తలానికి లంబంగా వుండే తలం  $ax + by + cz + d = 0$  అనుకోండి. గసాభా  $(|a|, |b|, |c|) = 1$  అయ్యేటట్లుగా  $a, b, c, d \in \mathbb{Z}$  వుంటే  $|a + b + c + d| = \underline{\hspace{2cm}}$ .

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 29 Question Id : 70819113456 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

The number of real solutions in the interval  $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$  of the equation  $4\sin^2x - 8\sin x + 3 = 0$  is           .

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 29 Question Id : 70819113456 Question Type : SA**

**Correct Marks : 4 Wrong Marks : 0**

అంతరము  $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$  లో సమీకరణము  $4\sin^2x - 8\sin x + 3 = 0$  యొక్క వాస్తవ సాధనల సంఖ్య           .

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 30 **Question Id :** 70819113457 **Question Type :** SA

**Correct Marks :** 4 **Wrong Marks :** 0

Let  $A_1, A_2, A_3, \dots$  be an increasing geometric progression. If  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  and  $A_5 A_7 = 441$ , then  $3(A_2 + A_4)$  is equal to \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 30 **Question Id :** 70819113457 **Question Type :** SA

**Correct Marks :** 4 **Wrong Marks :** 0

$A_1, A_2, A_3, \dots$  ఒక ఆరోహణ గుణిత్రేణి అనుకొందాం.  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  మరియు  $A_5 A_7 = 441$ , అయితే  $3(A_2 + A_4) =$  \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

## Aptitude Test

<b>Section Id :</b>	708191470
<b>Section Number :</b>	3
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191750
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 31 Question Id : 70819113458 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which among the following is the full form of the 'UNESCO' ?

**Options :**

70819144481. United Nations Educational, Scientific & Cultural Organization.

70819144482. United Nations Educational Security Cultural Organization.

70819144483. United Nations Entrance Site Calling Organization.

70819144484. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 31 Question Id : 70819113458 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'UNESCO' ని వివరంగా వ్రాయుము ?

Options :

70819144481. యునైటెడ్ నేషన్స్ ఎడ్యుకేషనల్, సైన్టీఫిక్ ఎండ్ కల్చురల్ ఆర్గనైజేషన్

70819144482. యునైటెడ్ నేషన్స్ ఎడ్యుకేషనల్ సెక్యూరిటీ కల్చురల్ ఆర్గనైజేషన్

70819144483. యునైటెడ్ నేషన్స్ ఎన్ట్రెప్రెన్యూరీ కాలింగ్ ఆర్గనైజేషన్

70819144484. యునైటెడ్ నేషన్స్ ఎడ్యుకేషనల్, సన్టేనబుల్ ఎండ్ కల్చురల్ ఆర్గనైజేషన్

Question Number : 32 Question Id : 70819113459 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I

List - II

(I) Hall of Nation

(a)



(II) Falling Water, Pennsylvania

(b)



(III) Petronas Tower

(c)



(IV) Secretariat

(d)



**Options :**

70819144485. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819144486. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819144487. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)



70819144488. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819113459 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

సరైన సమాధానాలను జోడించండి.

List - I

List - II

(I) హాల్ ఆఫ్ నేషన్

(a)



(II) జలపాతము, పెన్సిల్వేనియా

(b)



(III) పెట్రోనాస్ స్తంభం

(c)



(IV) సెక్రటేరియట్

(d)



Options :

70819144485. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819144486. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819144487. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819144488. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819113460 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Match List - I with List - II.

List - I

(I) Kamru

(II) Delhi

(III) Fatehpur Sikri

(IV) Kolkata

List - II

(a) Victoria Memorial Hall

(b) Badrinath Temple

(c) Khirki Masjid

(d) Buland Darwaja

**Options :**

70819144489. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819144490. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819144491. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819144492. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819113460 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



సరైన సమాధానాలను జోడించండి.

**List - I**

- (I) కమ్ము
- (II) ఢిల్లీ
- (III) ఫతేపూర్ సిక్రీ
- (IV) కోల్ కత్త

**List - II**

- (a) విక్టోరియా మెమోరియల్ హాల్
- (b) భద్రినాథ్ గుడి
- (c) ఖిర్కీ మసీదు
- (d) బులండ్ దర్వాజా

**Options :**

70819144489. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819144490. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819144491. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819144492. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 34 Question Id : 70819113461 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Match List - I with List - II.

List - I

List - II

(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



Options :

70819144493. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819144494. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819144495. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819144496. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819113461 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

సరియైన సమాధానాలతో జాబితా-I ను జాబితా-II తో జతపరుచుము.

జాబితా-I

జాబితా-II

(I) ఆగ్రా కోట

(a)



(II) అటాలా మసీదు

(b)



(III) నలంద విశ్వవిద్యాలయము

(c)



(IV) జగన్నాథ గుడి

(d)



Options :

70819144493. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819144494. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819144495. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819144496. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 35 Question Id : 70819113462 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Match List - I with List - II.

List - I	List - II
(I) Yadvindra Garden	(a) Manali
(II) Vishnu Temple	(b) Amritsar
(III) Hidimba Temple	(c) Pinjore
(IV) Hari Mandir	(d) Buniyar

**Options :**

70819144497. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819144498. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819144499. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819144500. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 35 Question Id : 70819113462 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

సరియైన సమాధానాలతో జాబితా-I ను జాబితా-II తో జతపరుచుము.

జాబితా-I

జాబితా-II

- |                   |              |
|-------------------|--------------|
| (I) యద్వీంద్ర తోట | (a) మనాలి    |
| (II) విష్ణు గుడి  | (b) అమృత్సర్ |
| (III) హిడింబ గుడి | (c) పింజోర్  |
| (IV) హరి మందిరము  | (d) బునియార్ |

**Options :**

70819144497. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819144498. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819144499. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819144500. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 36 Question Id : 70819113463 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Match List - I with List - II.

List - I

List - II

- |                     |               |
|---------------------|---------------|
| (I) Mehrangarh Fort | (a) Hyderabad |
| (II) Siri Fort      | (b) Kolkata   |
| (III) Golconda Fort | (c) Delhi     |
| (IV) Fort William   | (d) Jodhpur   |

Choose the correct answer from options given below :

**Options :**

70819144501. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819144502. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819144503. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)



70819144504. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 36 Question Id : 70819113463 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

సరైన సమాధానాలతో జాబితా-I ను జాబితా-II తో జతపరుచుము.

**జాబితా-I**

**జాబితా-II**

- |                      |                |
|----------------------|----------------|
| (I) మెట్రోన్‌గడ్ కోట | (a) హైదరాబాద్  |
| (II) సిరి కోట        | (b) కోల్‌కత్తా |
| (III) గోల్కొండ కోట   | (c) ఢిల్లీ     |
| (IV) విలియమ్ కోట     | (d) జోద్‌పూర్  |

క్రింది ఐచ్ఛికాలలో సరియైన దానిని ఎనుకోండి.

**Options :**

70819144501. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819144502. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819144503. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819144504. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 37 Question Id : 70819113464 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Book 'God of small things' is written by which Indian Architect ?

**Options :**

70819144505. B.V. Doshi

70819144506. Arundhati Roy

70819144507. Revati Kamat

70819144508. Bimal Patel

**Question Number : 37 Question Id : 70819113464 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'గాడ్ ఆఫ్ స్మార్ట్ థింగ్స్' అనే పుస్తకం ఏ భారత ఆర్కిటెక్ట్ చే రచించబడినది ?

**Options :**

70819144505. బి.వి. డోషి

70819144506. అరుంధతి రాయ్

70819144507. రేవతి కామత్

70819144508. బిమల్ పటేల్

**Question Number : 38 Question Id : 70819113465 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'Jharokha' is a type of window mostly found in :

**Options :**

70819144509. Gujarat

70819144510. West Bengal

70819144511. Tamil Nadu

70819144512. Rajasthan

**Question Number : 38 Question Id : 70819113465 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'జరోఖా' అనే కిటికీ ఎక్కడ ఎక్కువగా కనిపిస్తుంది ?

**Options :**

70819144509. గుజరాత్

70819144510. పశ్చిమ బెంగాల్

70819144511. తమిళనాడు

70819144512. రాజస్థాన్

**Question Number : 39 Question Id : 70819113466 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

The monsoon wind enters in Indian sub-continent from which direction ?

**Options :**

70819144513. North-West side

70819144514. South-East side

70819144515. North side

70819144516. South-West side



**Question Number : 39 Question Id : 70819113466 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

వర్షాకాలంలో వచ్చే రుతుపవనాలు భారత ఉపఖండానికి ఎటువైపునుండి వస్తాయి ?

**Options :**

70819144513. వాయవ్యం

70819144514. ఆగ్నేయం

70819144515. ఉత్తర దిశ

70819144516. నైరుతి

**Question Number : 40 Question Id : 70819113467 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

Which of the following building represents the colonial Architectural pattern in India ?

**Options :**

70819144517. Bharat Bhavan in Bhopal

70819144518. LIC Building in Delhi

70819144519. Charminar in Hyderabad

70819144520. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819113467 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

భారతదేశంలోని క్రింది భవనాల్లో ఏది ఇతర దేశపు ఆర్కిటెక్చర్ నమూనా కలిగి ఉంది ?

Options :

70819144517. భోపాల్లోని భారత్ భవన్

70819144518. ఢిల్లీలోని ఎల్.ఐ.సి. భవనం

70819144519. హైదరాబాద్లోని చార్మినార్

70819144520. కోల్కతాలోని విక్టోరియా మెమోరియల్

Question Number : 41 Question Id : 70819113468 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What is the size of A2 Drawing sheet ?

Options :

70819144521.  $420 \times 590$  (mm  $\times$  mm)

70819144522.  $420 \times 594$  (mm  $\times$  mm)

70819144523.  $297 \times 420$  (mm  $\times$  mm)

70819144524.  $420 \times 592$  (mm  $\times$  mm)

Question Number : 41 Question Id : 70819113468 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

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

A2ద్రాయింగ్ షీట్ యొక్క కొలతలు :

**Options :**

70819144521.  $420 \times 590$  (మి.మీ.  $\times$  మి.మీ.)

70819144522.  $420 \times 594$  (మి.మీ.  $\times$  మి.మీ.)

70819144523.  $297 \times 420$  (మి.మీ.  $\times$  మి.మీ.)

70819144524.  $420 \times 592$  (మి.మీ.  $\times$  మి.మీ.)

**Question Number : 42 Question Id : 70819113469 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Victory Tower belongs to which of the following fort :

**Options :**

70819144525. Chittor fort

70819144526. Jaigarh fort

70819144527. Bhangarh fort

70819144528. Amer fort

**Question Number : 42 Question Id : 70819113469 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

“విక్టరీ టవర్” ఏ కోటకు సంబంధించింది :

**Options :**

70819144525. చిత్తూరు కోట

70819144526. జైగఢ్ కోట

70819144527. భన్గఢ్ కోట

70819144528. అమిర్ కోట

**Question Number : 43 Question Id : 70819113470 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which amongst the following Architect has designed the famous Temple "Akshardham" ?

**Options :**

70819144529. Sanjay Puri

70819144530. Vikram Lall

70819144531. Ashok Lall

70819144532. C. Sompura

**Question Number : 43 Question Id : 70819113470 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ప్రముఖ దేవాలయం "అక్షరధామ్" ను రూపుదిద్దిన ఆర్కిటెక్ట్ ఎవరు ?

**Options :**

70819144529. సంజయ్ పూరి

70819144530. విక్రమ్ లాల్

70819144531. అశోక్ లాల్

70819144532. సి.సోంపుర

**Question Number : 44 Question Id : 70819113471 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

'Volume Zero' Documentary is on which Architect ?

**Options :**

70819144533. Charles Correa

70819144534. Richard Mier

70819144535. Jasbir Sachdev

70819144536. Ranjit Sabliki

**Question Number : 44 Question Id : 70819113471 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

'వాల్యూమ్ జీరో' అనే ఆత్మకథా చిత్రం ఏ ఆర్కిటెక్ట్ గురించి ?

**Options :**

70819144533. చార్లెస్ కొరియా

70819144534. రిచార్డ్ మియర్

70819144535. జస్పీర్ సచ్‌దేవ్

70819144536. రంజిత్ సబ్లికి

**Question Number : 45 Question Id : 70819113472 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'Agenda 21' is declaration related with :

**Options :**

70819144537. Climate change

70819144538. Global warming

70819144539. Sustainable development

70819144540. Smart city

**Question Number : 45 Question Id : 70819113472 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

“ఎజెండా 21” అనే ప్రకటన దేనికి సంబంధించినది ?

**Options :**

70819144537. వాతావరణ మార్పు

70819144538. భూతాపం

70819144539.

70819144540. స్కార్ట్ సిటీ

**Question Number : 46 Question Id : 70819113473 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Gold mines are situated in which state of India ?

**Options :**

70819144541. Karnataka

70819144542. Orissa

70819144543. Maharashtra

70819144544. Uttar Pradesh

**Question Number : 46 Question Id : 70819113473 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

బంగారు గనులు ఇండియాలోని ఏ రాష్ట్రంలో ఉన్నాయి ?

**Options :**

70819144541. కర్ణాటక

70819144542. ఒడిశా

70819144543. మహారాష్ట్ర

70819144544. ఉత్తర ప్రదేశ్

**Question Number : 47 Question Id : 70819113474 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

In the Southern Hemisphere shadowless light is from which direction ?

**Options :**

70819144545. North

70819144546. South

70819144547. East

70819144548. West

**Question Number : 47 Question Id : 70819113474 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

దక్షిణ అర్ధగోళంలో నీడలేని వెలుతురు ఎటువైపు నుంచి వస్తుంది ?

**Options :**

70819144545. ఉత్తర దిశ

70819144546. దక్షిణ దిశ

70819144547. తూర్పు దిశ

70819144548. పడమర దిశ



**Question Number : 48 Question Id : 70819113475 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

The first Indian Architect who has won Pritzker Prize in 2018 is :

**Options :**

70819144549. B.V. Doshi

70819144550. Laurie Baker

70819144551. Raj Rewal

70819144552. Achyut Kanvinde

**Question Number : 48 Question Id : 70819113475 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

2018 వ సంవత్సరంలో ప్రిడ్జ్ కర్ బహుమతిని గెలుచుకున్న మొదట భారతీయ ఆర్కిటెక్ట్ ఎవరు ?

**Options :**

70819144549. బి.వి. దోషి

70819144550. లారీ బేకర్

70819144551. రాజ్ రెవాల

70819144552. అచ్యుత్ కన్విందే

**Question Number : 49 Question Id : 70819113476 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Word "Bungalow" has originated from :

**Options :**

70819144553. Bengalurm

70819144554. Banaras

70819144555. Bengal

70819144556. Bari

**Question Number : 49 Question Id : 70819113476 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

"బంగళా" అనే పదము దేనినుంచి వుట్టింది :

**Options :**

70819144553. బెంగలూర్మ్

70819144554. బనారస్

70819144555. బెంగాల్

70819144556. బరి

**Question Number : 50 Question Id : 70819113477 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

The IIM - Ahmedabad is designed by which of the following Architect ?

**Options :**

70819144557. Laurie Baker

70819144558. Louis Kahn

70819144559. Lutyen

70819144560. Le Corbusier

**Question Number : 50 Question Id : 70819113477 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

IIM - అహ్మదాబాద్ భవనాన్ని రూపుదిద్దిన ఆర్కిటెక్ట్ ఎవరు ?

**Options :**

70819144557. లారీ బేకర్

70819144558. లూయి ఖాన్

70819144559. ల్యూ టేన్

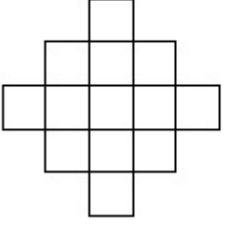
70819144560. లీ-కార్బుజియర్

**Question Number : 51 Question Id : 70819113478 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

In the given figure, how many squares are present ?



**Options :**

70819144561. 14

70819144562. 13

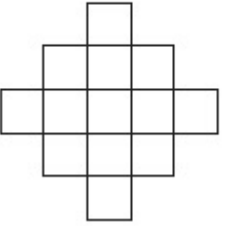
70819144563. 15

70819144564. 18

**Question Number : 51 Question Id : 70819113478 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

క్రింద ఇచ్చిన చిత్రంలో ఎన్ని చదరాలు ఉన్నాయి ?



**Options :**

70819144561. 14

70819144562. 13

70819144563. 15

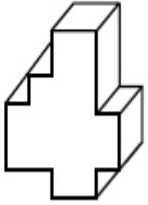
70819144564. 18

Question Number : 52 Question Id : 70819113479 Question Type : MCQ Option Shuffling : Yes

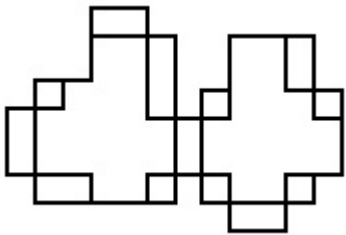
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

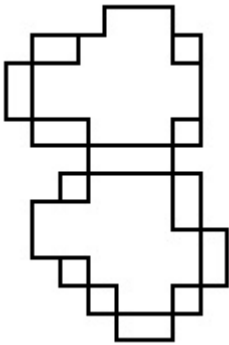
A drawing is provided with all the folds to construct the following three Dimensional object.  
Select the correct one.



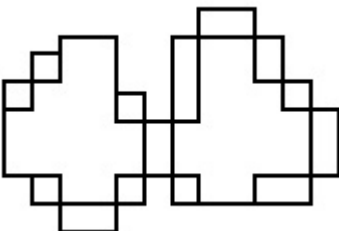
Options :



70819144565.

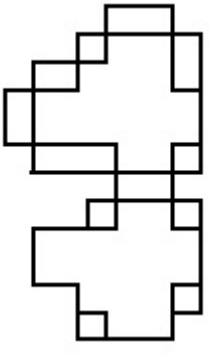


70819144566.



70819144567.

70819144568.

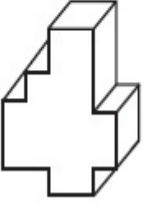


Question Number : 52 Question Id : 70819113479 Question Type : MCQ Option Shuffling : Yes

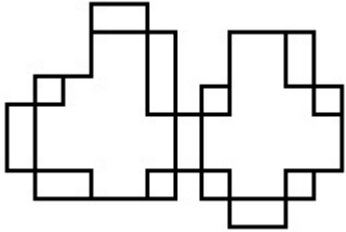
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

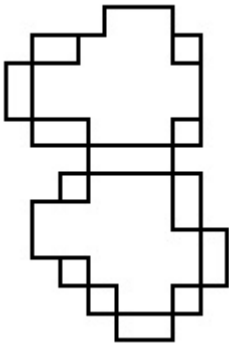
క్రింది 3-డి బొమ్మన నిర్మించడానికి అవసరమైన అన్ని మడతలకు సంబంధించి చిత్రాలు క్రిందినీయబడినవి. వాటిలో సరియైన దాన్ని ఎన్నుకోండి.



Options :

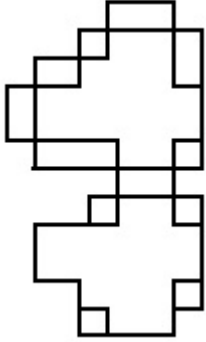
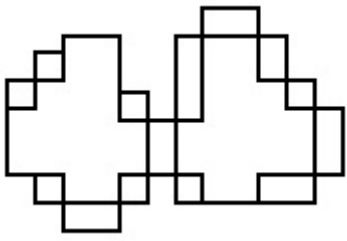


70819144565.



70819144566.

70819144567.



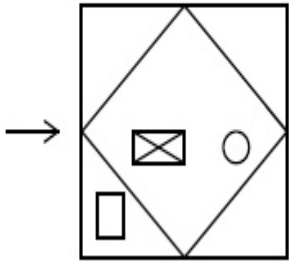
70819144568.

**Question Number : 53 Question Id : 70819113480 Question Type : MCQ Option Shuffling : Yes**

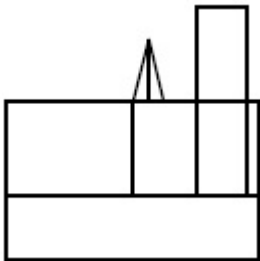
**Is Question Mandatory : No**

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

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

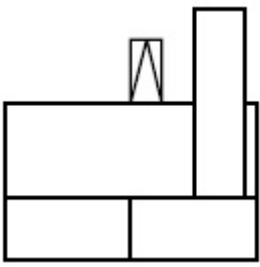


**Options :**

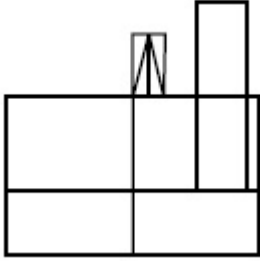


70819144569.

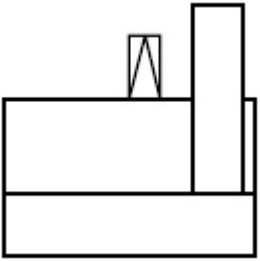
70819144570.



70819144571.



70819144572.

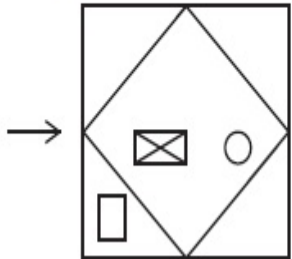


**Question Number : 53 Question Id : 70819113480 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

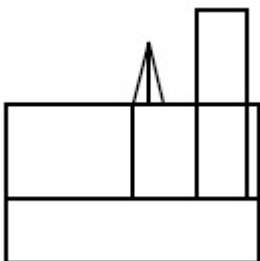
**Correct Marks : 4 Wrong Marks : 1**

క్రింద సమస్యలో ఇచ్చిన బొమ్మ ఒక వస్తువును పై నుండి చూసినపుడు కనిపించే భాగాన్ని చూపుతుంది. బాణపు గుర్తు సూచించిన దిశలో సరిగ్గా చూసినపుడు కనిపించేదాన్ని సమాధానపు బొమ్మల్లో గుర్తించుము.



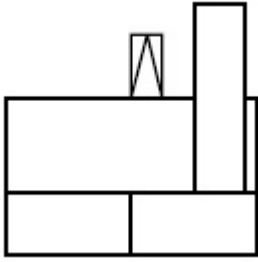
**Options :**

70819144569.

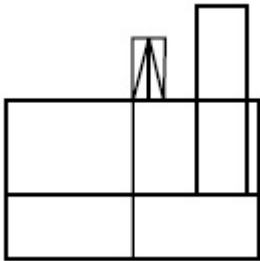




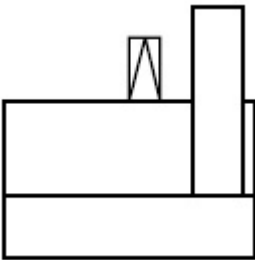
70819144570.



70819144571.



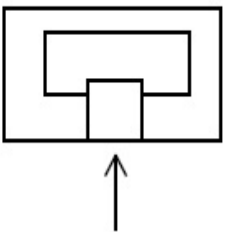
70819144572.



**Question Number : 54 Question Id : 70819113481 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

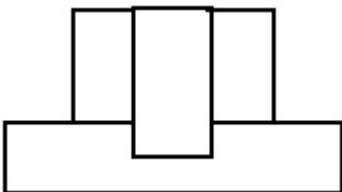
**Correct Marks : 4 Wrong Marks : 1**

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

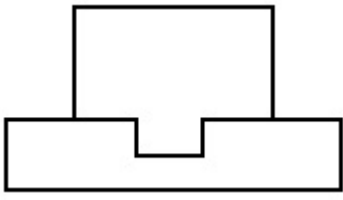


**Options :**

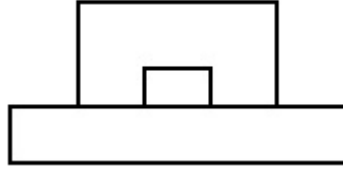
70819144573.



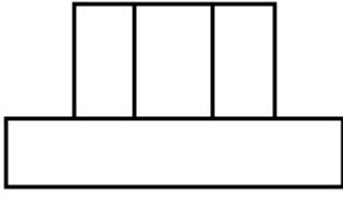
70819144574.



70819144575.



70819144576.

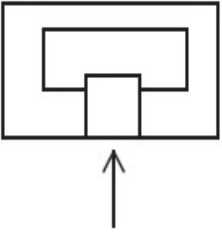


**Question Number : 54 Question Id : 70819113481 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

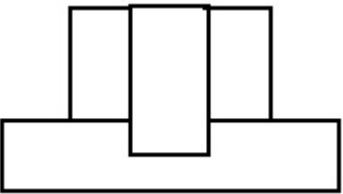
**Correct Marks : 4 Wrong Marks : 1**

క్రింది సమస్యలో ఇచ్చిన బొమ్మ ఒక వస్తువును పై నుంచి చూసినపుడు కనిపించే భాగాన్ని చూపుతుంది. బాణపు గుర్తు చూపిన దిశలో కనిపించే దాన్ని క్రింది జవాబు పటాల్లో గుర్తించండి.

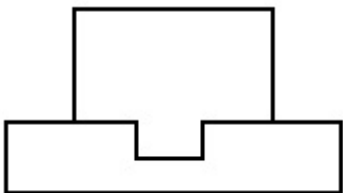


**Options :**

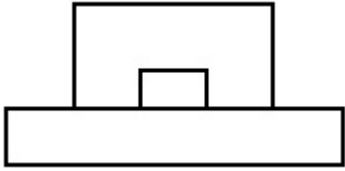
70819144573.



70819144574.



70819144575.



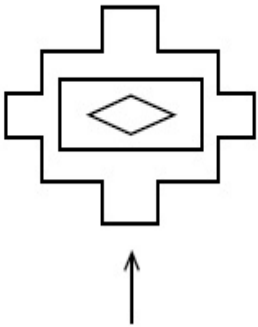
70819144576.



**Question Number : 55 Question Id : 70819113482 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

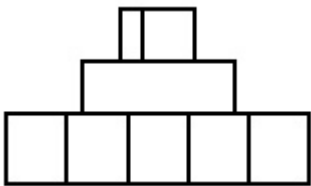
**Correct Marks : 4 Wrong Marks : 1**

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

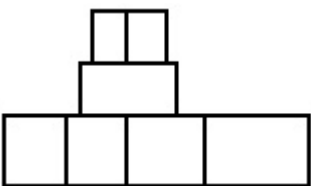


**Options :**

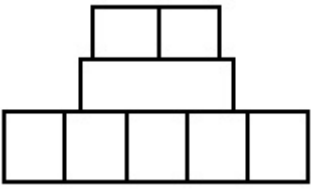
70819144577.



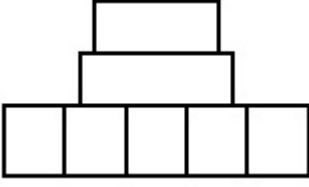
70819144578.



70819144579.



70819144580.

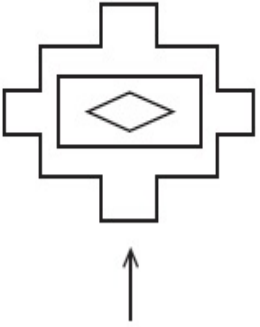


**Question Number : 55 Question Id : 70819113482 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

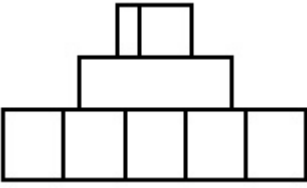
**Correct Marks : 4 Wrong Marks : 1**

క్రింది సమస్యలో ఇచ్చిన టొమ్మ ఒక వస్తువును పై నుంచి చూసినపుడు కనిపించే భాగాన్ని చూపుతుంది. బాణపు గుర్తు చూపిన దిశలో కనిపించే దాన్ని క్రింది జవాబు పటాల్లో గుర్తించండి.

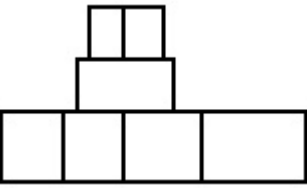


**Options :**

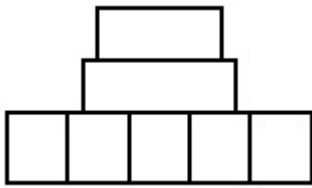
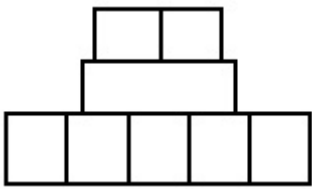
70819144577.



70819144578.



70819144579.



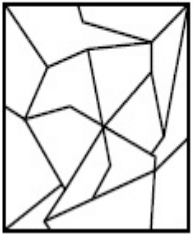
70819144580.

**Question Number : 56 Question Id : 70819113483 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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



**Options :**

70819144581.



70819144582.



70819144583.



70819144584.

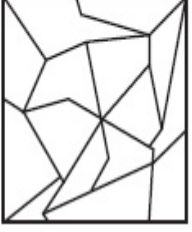


Question Number : 56 Question Id : 70819113483 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ఈ క్రింద ఉన్న బొమ్మలో ఒక ఆకారం అదే కొలత మరియు అదే దిక్కున దాగి ఉంది. జవాబులలో నుంచి దానిని గుర్తించండి.



Options :

70819144581.



70819144582.



70819144583.



70819144584.

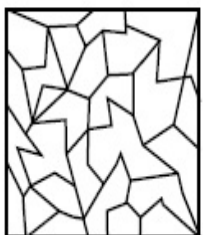


Question Number : 57 Question Id : 70819113484 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

70819144585.



70819144586.



70819144587.



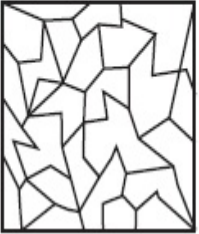
70819144588.



**Question Number : 57 Question Id : 70819113484 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

ఈ క్రింద ఉన్న బొమ్మలో ఒక ఆకారం అదే కొలత మరియు అదే దిక్కున దాగి ఉంది. జవాబులలో నుంచి దానిని గుర్తించండి.



**Options :**

70819144585.



70819144586.



70819144587.



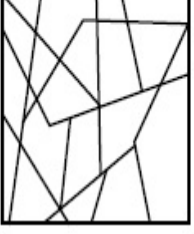
70819144588.



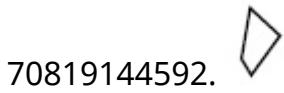
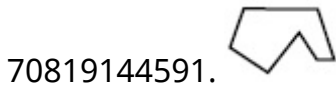
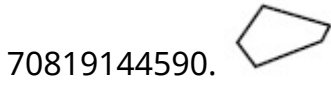
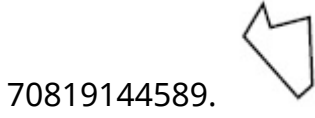
Question Number : 58 Question Id : 70819113485 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



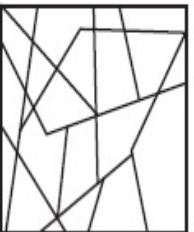
Options :



Question Number : 58 Question Id : 70819113485 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ఈ క్రింద ఉన్న బొమ్మలో ఒక ఆకారం అదే కొలత మరియు అదే దిక్కున దాగి ఉంది. జవాబులలో నుంచి దానిని గుర్తించండి.



Options :



70819144589.



70819144590.



70819144591.



70819144592.

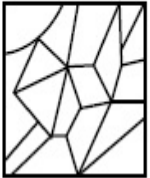


**Question Number : 59 Question Id : 70819113486 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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



**Options :**

70819144593.



70819144594.



70819144595.



70819144596.



Question Number : 59 Question Id : 70819113486 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ఈ క్రింద ఉన్న బొమ్మలో ఒక ఆకారం అదే కొలత మరియు అదే దిక్కున దాగి ఉంది. జవాబులలో నుంచి దానిని గుర్తించండి.



Options :

70819144593.

70819144594.

70819144595.

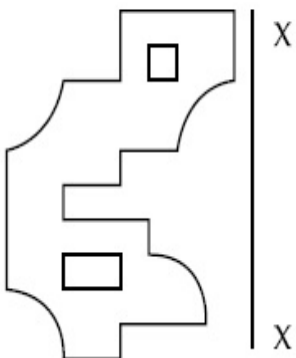
70819144596.

Question Number : 60 Question Id : 70819113487 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

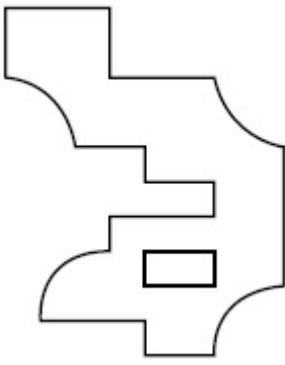
Correct Marks : 4 Wrong Marks : 1

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

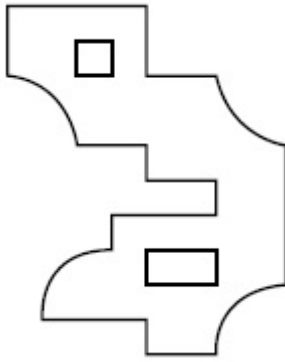


Options :

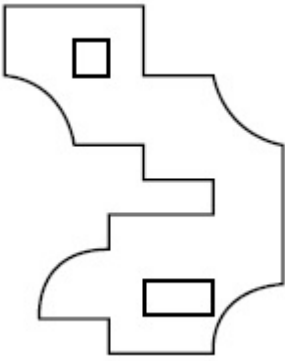
70819144597.



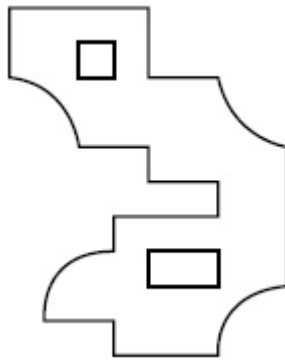
70819144598.



70819144599.

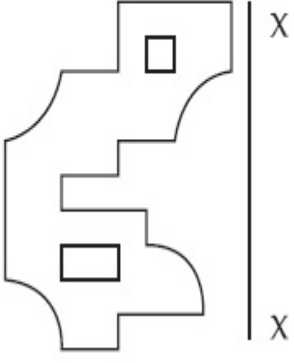


70819144600.

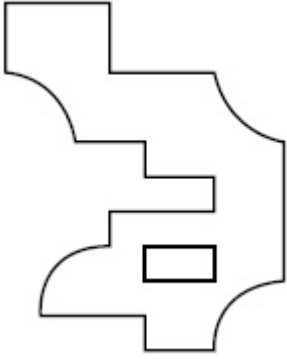


**Question Number : 60 Question Id : 70819113487 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No  
Correct Marks : 4 Wrong Marks : 1**

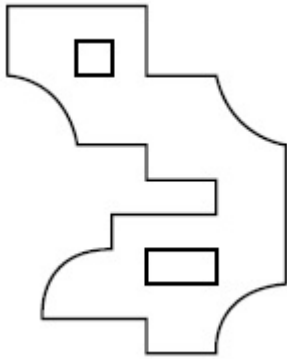
ఈ క్రింద ఉన్న బొమ్మను X-X ఆధారముగా అద్దంలో చూచినప్పుడు కనిపించే దర్పణ ప్రతిబింబాన్ని జవాబులలో గుర్తించండి.



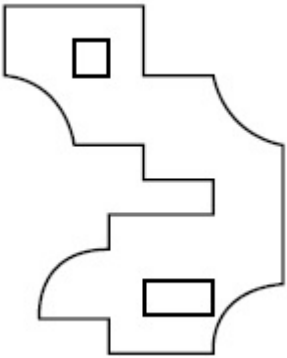
Options :



70819144597.

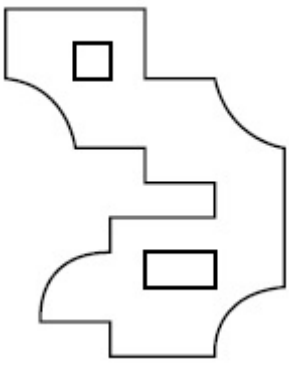


70819144598.



70819144599.

70819144600.

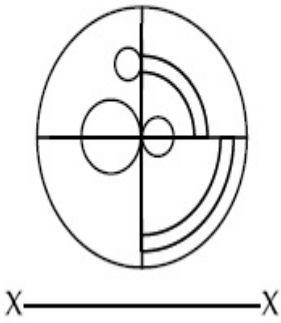


Question Number : 61 Question Id : 70819113488 Question Type : MCQ Option Shuffling : Yes

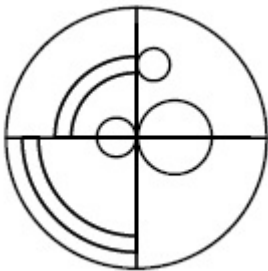
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

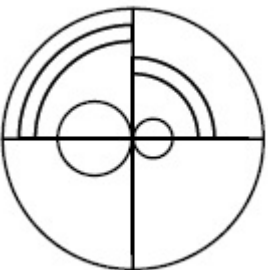
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



Options :

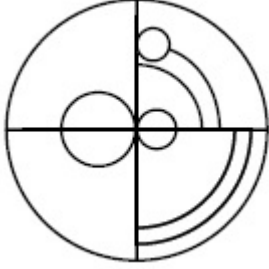
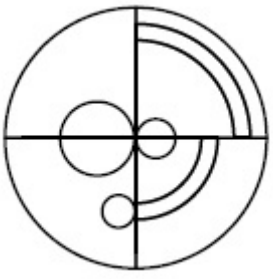


70819144601.



70819144602.

70819144603.



70819144604.

**Question Number : 61 Question Id : 70819113488 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

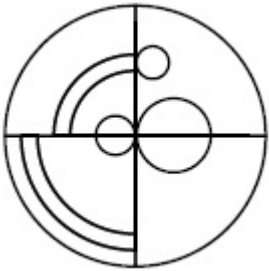
**Correct Marks : 4 Wrong Marks : 1**

ఈ క్రింద ఇచ్చిన బొమ్మను X-X ఆధారముగా అద్దంలో చూచినప్పుడు కనిపించే దర్పణ ప్రతిబింబాన్ని జవాబులలో గుర్తించండి.



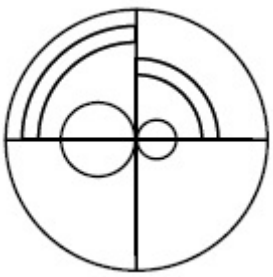
X ————— X

**Options :**

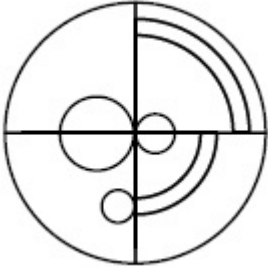


70819144601.

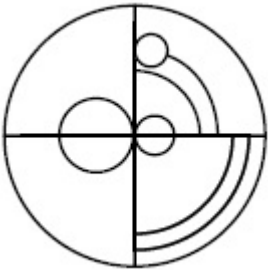
70819144602.



70819144603.



70819144604.

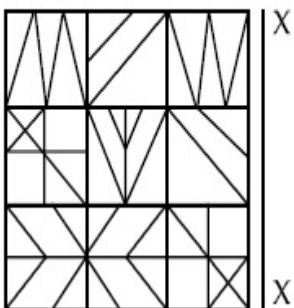


**Question Number : 62 Question Id : 70819113489 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

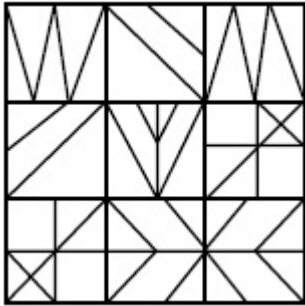
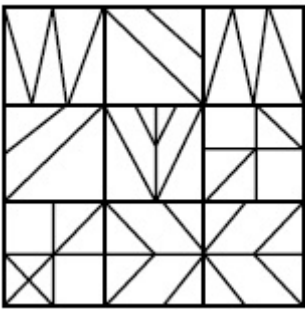
**Correct Marks : 4 Wrong Marks : 1**

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

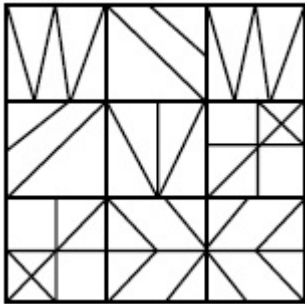


**Options :**

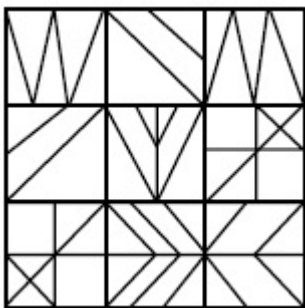
70819144605.



70819144606.



70819144607.



70819144608.

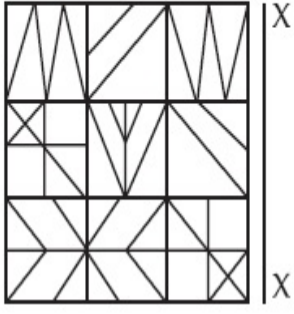
**Question Number : 62 Question Id : 70819113489 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

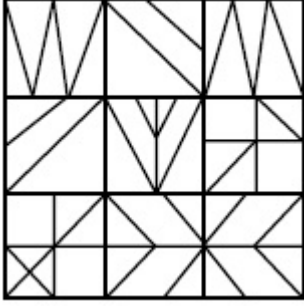
**Correct Marks : 4 Wrong Marks : 1**



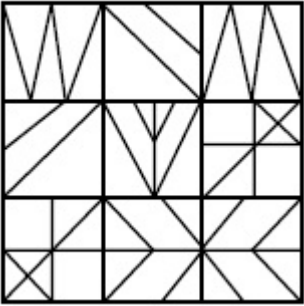
ఈ క్రింద ఇచ్చిన బొమ్మను X-X ఆధారముగా అడ్డంలో చూచినప్పుడు కనిపించే దర్పణ ప్రతిబింబాన్ని జవాబులలో గుర్తించండి.



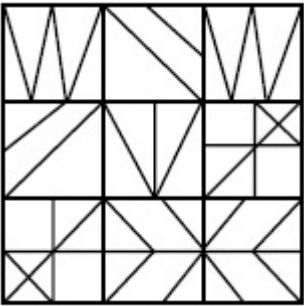
**Options :**



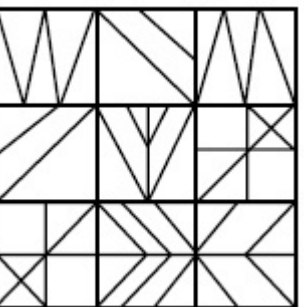
70819144605.



70819144606.



70819144607.



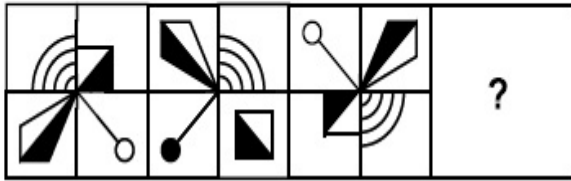
70819144608.

Question Number : 63 Question Id : 70819113490 Question Type : MCQ Option Shuffling : Yes

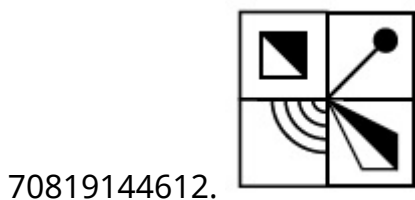
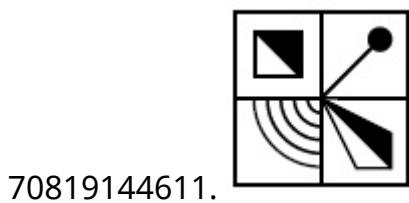
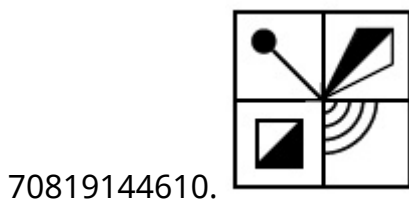
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the answer figures complete the sequence of the problem figure ? Select the correct one.



Options :

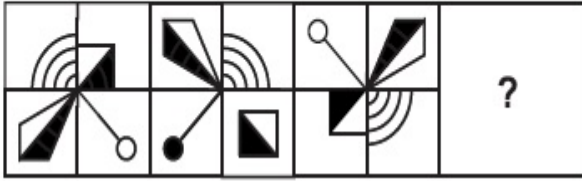


Question Number : 63 Question Id : 70819113490 Question Type : MCQ Option Shuffling : Yes

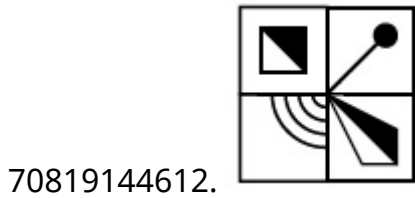
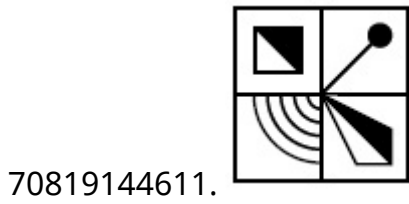
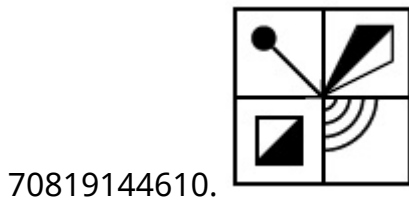
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

క్రింద ఉన్న బొమ్మ ఆధారముగా, అదే క్రమంలో వచ్చే తరువాత బొమ్మను జవాబులలో నుంచి గుర్తించండి.



Options :

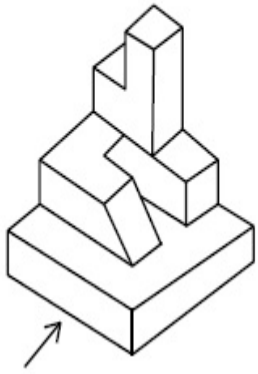


Question Number : 64 Question Id : 70819113491 Question Type : MCQ Option Shuffling : Yes

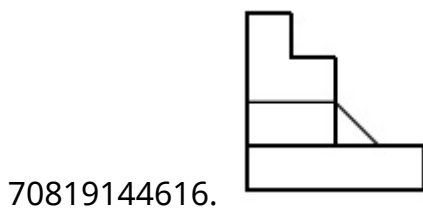
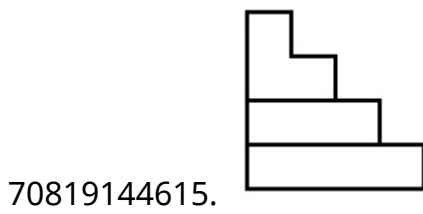
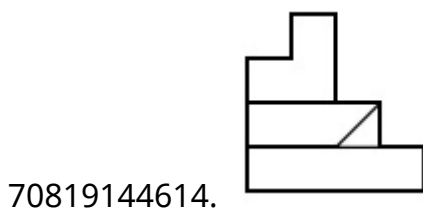
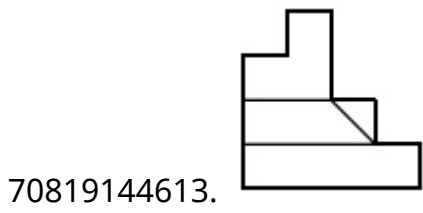
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



**Options :**

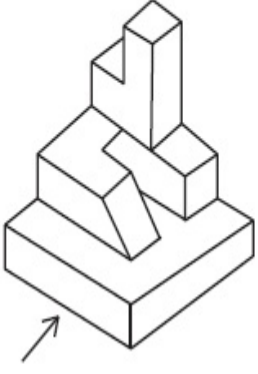


**Question Number : 64 Question Id : 70819113491 Question Type : MCQ Option Shuffling : Yes**

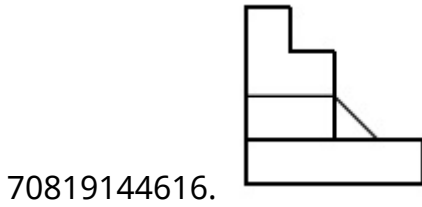
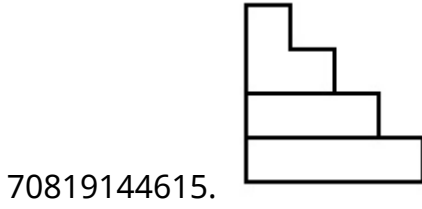
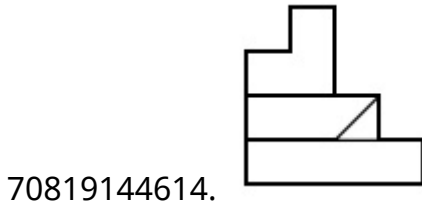
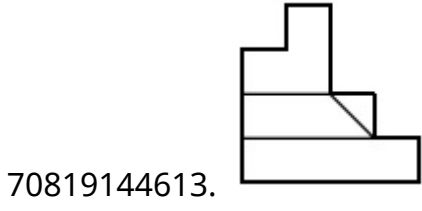
**Is Question Mandatory : No**

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

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.



**Options :**

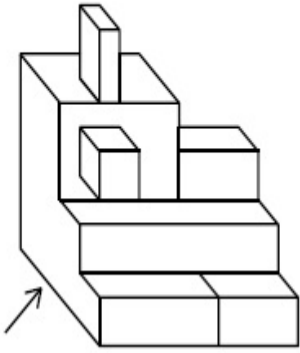


**Question Number : 65 Question Id : 70819113492 Question Type : MCQ Option Shuffling : Yes**

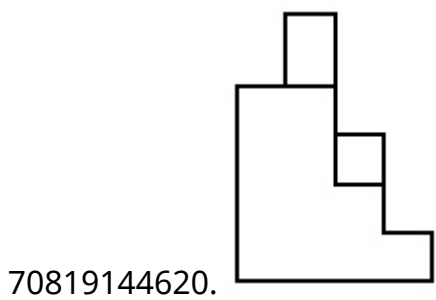
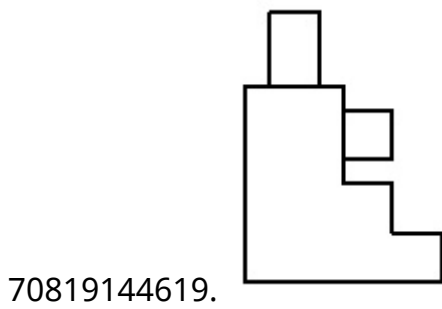
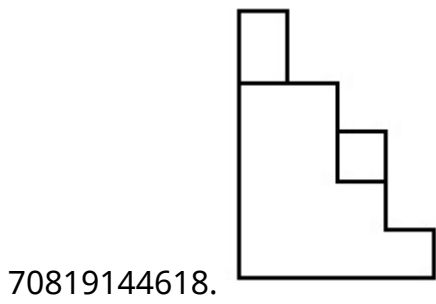
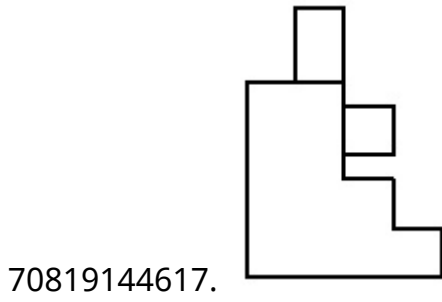
**Is Question Mandatory : No**

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

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



Options :

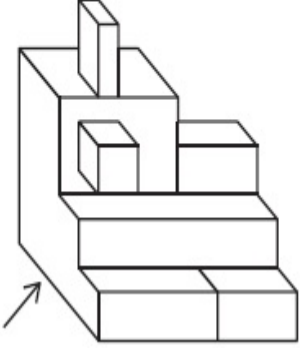


Question Number : 65 Question Id : 70819113492 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

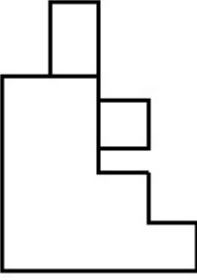
Correct Marks : 4 Wrong Marks : 1

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

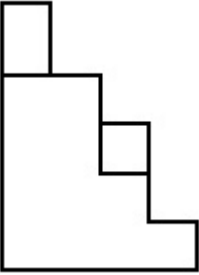


Options :

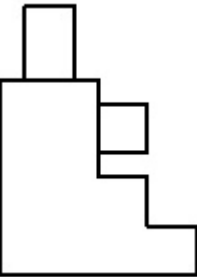
70819144617.



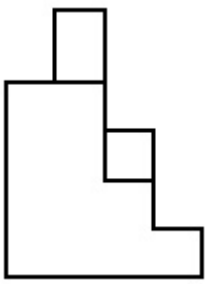
70819144618.



70819144619.



70819144620.

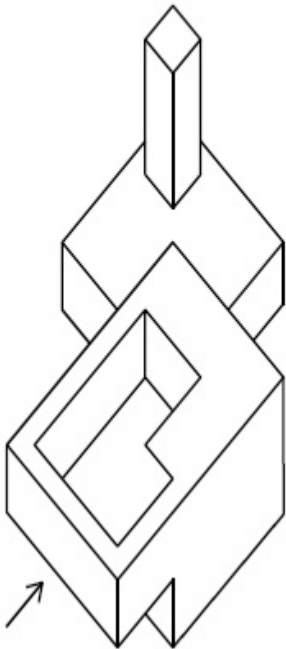


Question Number : 66 Question Id : 70819113493 Question Type : MCQ Option Shuffling : Yes

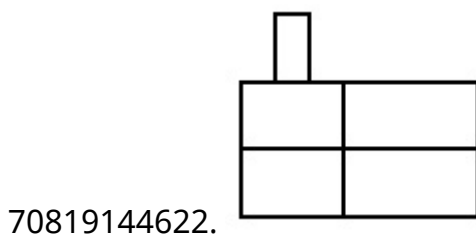
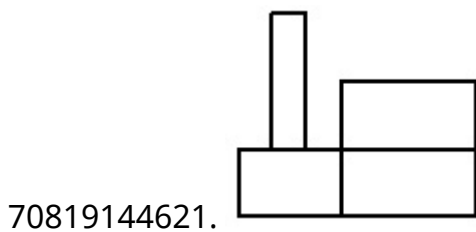
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

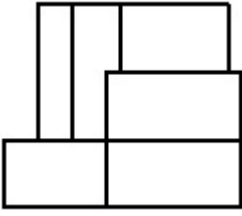


Options :

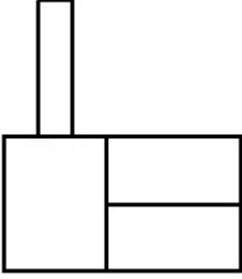




70819144623.



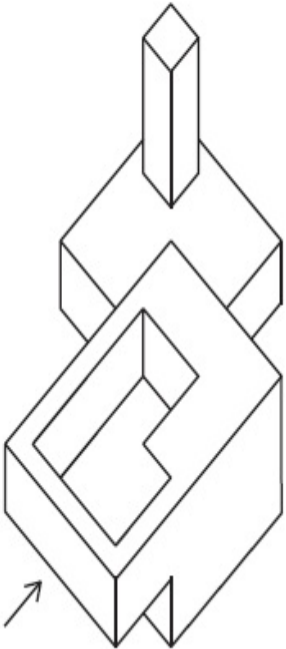
70819144624.



**Question Number : 66 Question Id : 70819113493 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

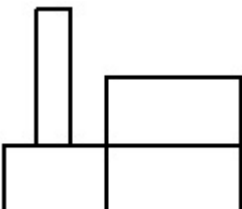
**Correct Marks : 4 Wrong Marks : 1**

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

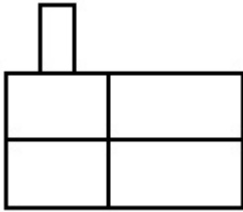


**Options :**

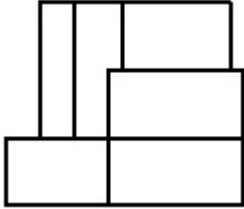
70819144621.



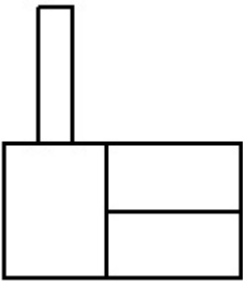
70819144622.



70819144623.



70819144624.

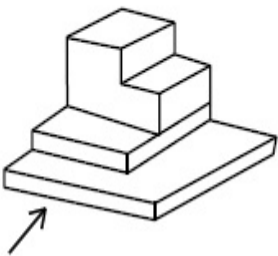


**Question Number : 67 Question Id : 70819113494 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

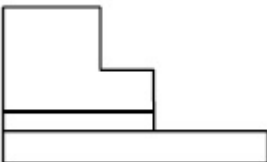
**Correct Marks : 4 Wrong Marks : 1**

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

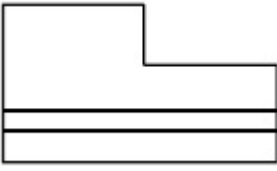


**Options :**

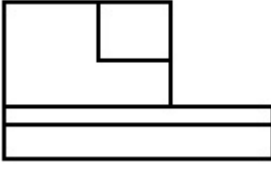
70819144625.



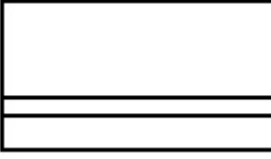
70819144626.



70819144627.



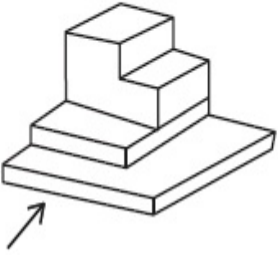
70819144628.



**Question Number : 67 Question Id : 70819113494 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

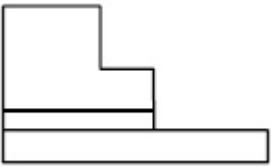
**Correct Marks : 4 Wrong Marks : 1**

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

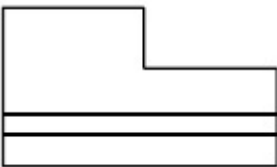


**Options :**

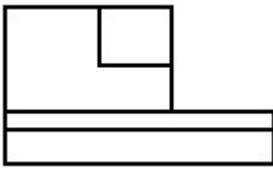
70819144625.



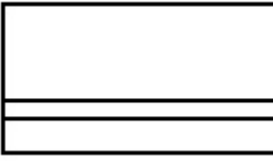
70819144626.



70819144627.



70819144628.

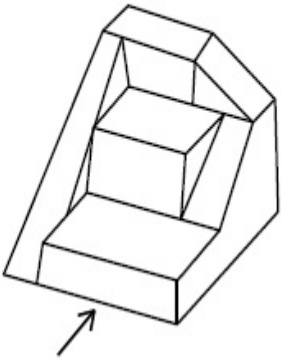


**Question Number : 68 Question Id : 70819113495 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

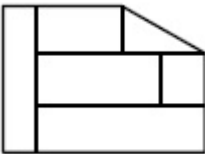
**Correct Marks : 4 Wrong Marks : 1**

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

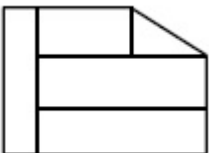


**Options :**

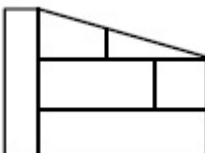
70819144629.



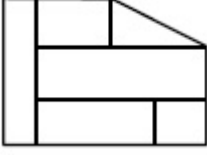
70819144630.



70819144631.



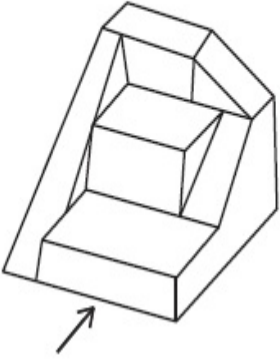
70819144632.



**Question Number : 68 Question Id : 70819113495 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

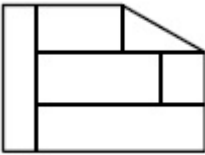
**Correct Marks : 4 Wrong Marks : 1**

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

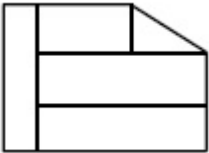


**Options :**

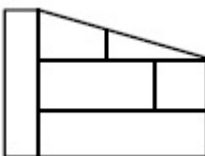
70819144629.



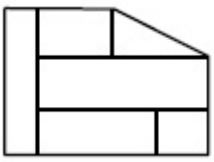
70819144630.



70819144631.



70819144632.

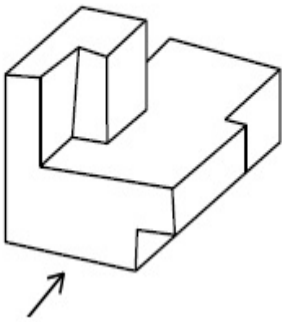


Question Number : 69 Question Id : 70819113496 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

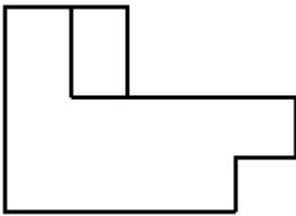
Correct Marks : 4 Wrong Marks : 1

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

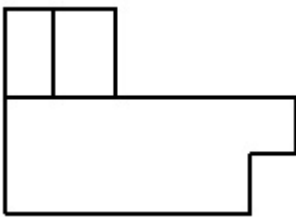


Options :

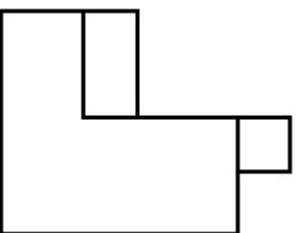
70819144633.



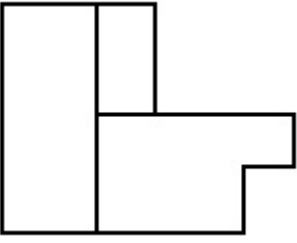
70819144634.



70819144635.



70819144636.

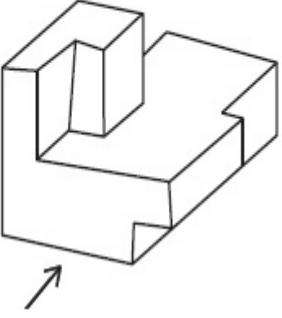


Question Number : 69 Question Id : 70819113496 Question Type : MCQ Option Shuffling : Yes

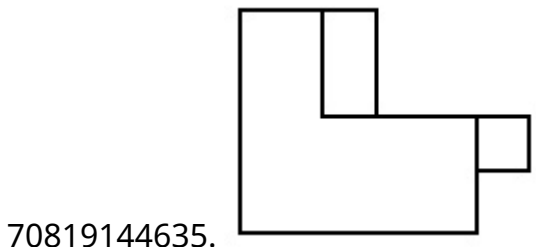
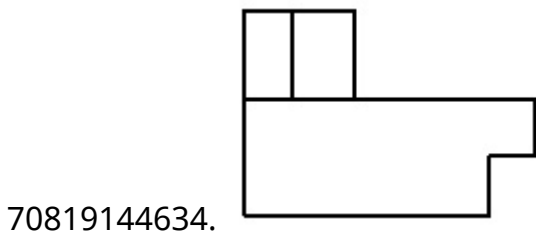
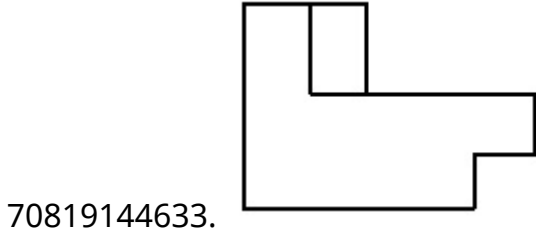
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

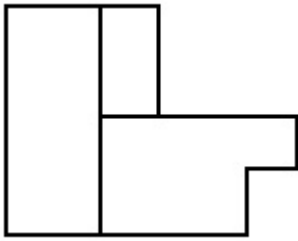
ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.



Options :



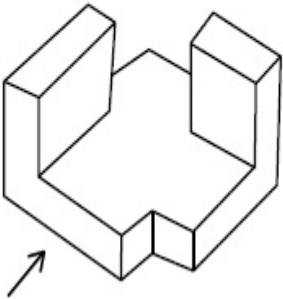
70819144636.



**Question Number : 70 Question Id : 70819113497 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

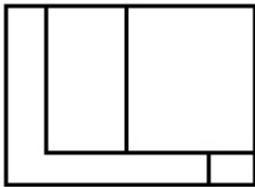
**Correct Marks : 4 Wrong Marks : 1**

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

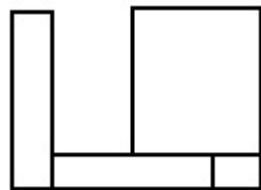


**Options :**

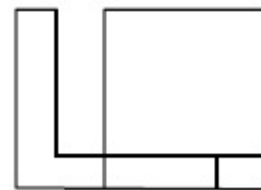
70819144637.



70819144638.

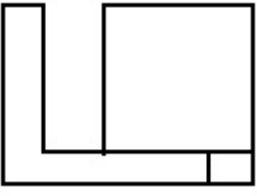


70819144639.



70819144640.

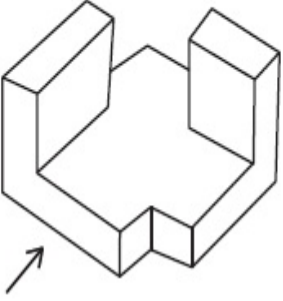




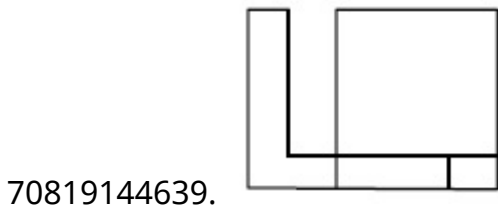
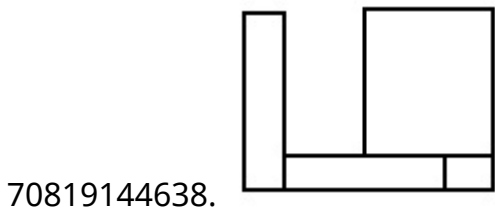
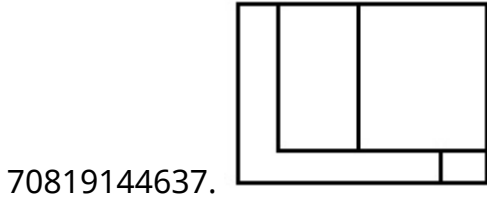
Question Number : 70 Question Id : 70819113497 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

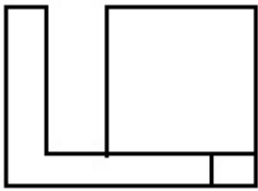
ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.



Options :



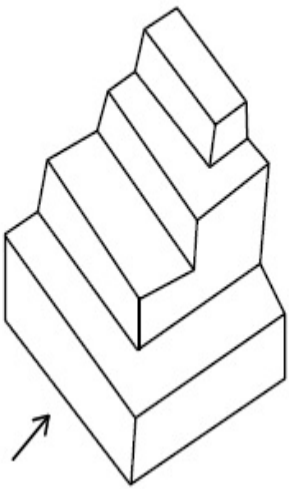
70819144640.



**Question Number : 71 Question Id : 70819113498 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

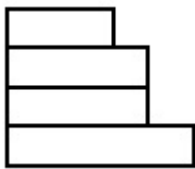
**Correct Marks : 4 Wrong Marks : 1**

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

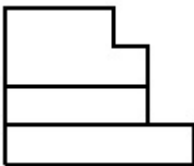


**Options :**

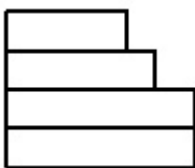
70819144641.



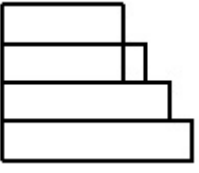
70819144642.



70819144643.



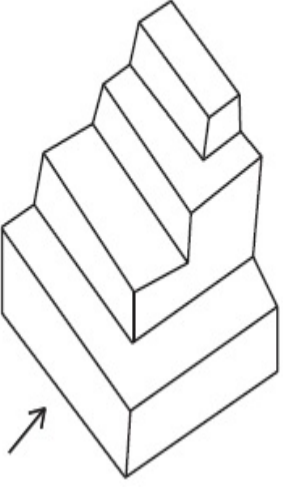
70819144644.



Question Number : 71 Question Id : 70819113498 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

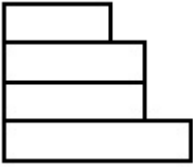
Correct Marks : 4 Wrong Marks : 1

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

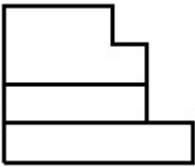


Options :

70819144641.



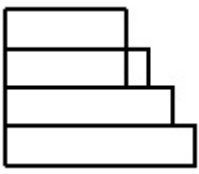
70819144642.



70819144643.



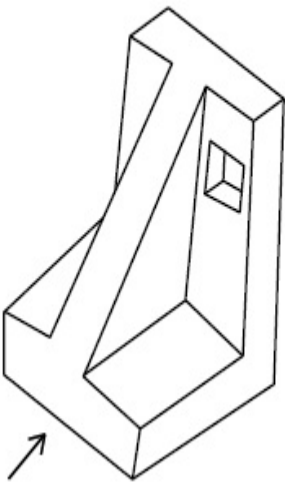
70819144644.



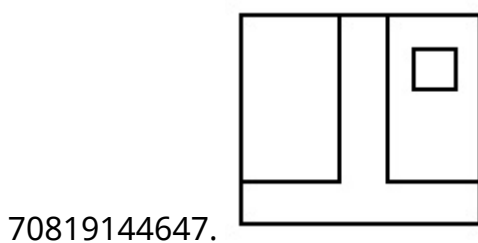
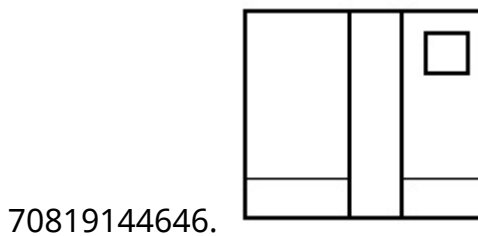
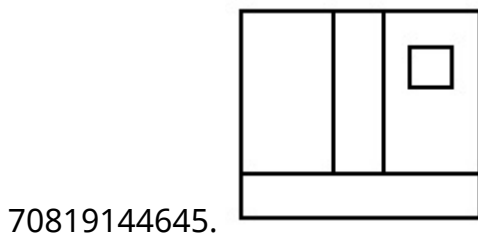
**Question Number : 72 Question Id : 70819113499 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

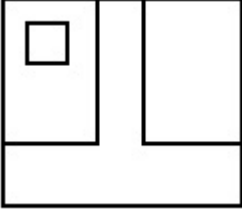
**Correct Marks : 4 Wrong Marks : 1**

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



**Options :**





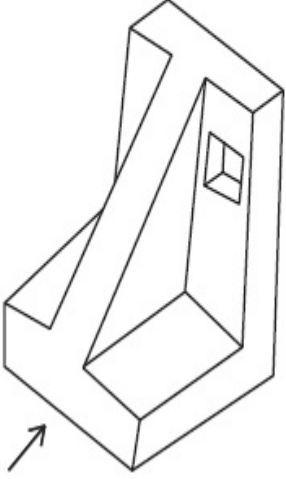
70819144648.

**Question Number : 72 Question Id : 70819113499 Question Type : MCQ Option Shuffling : Yes**

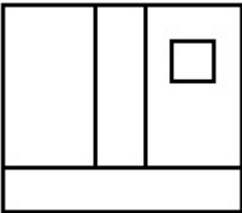
**Is Question Mandatory : No**

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

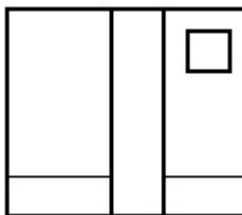
ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.



**Options :**

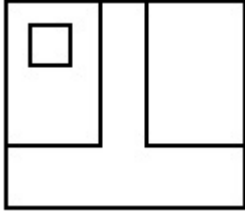
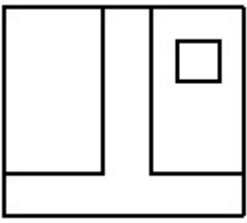


70819144645.



70819144646.

70819144647.



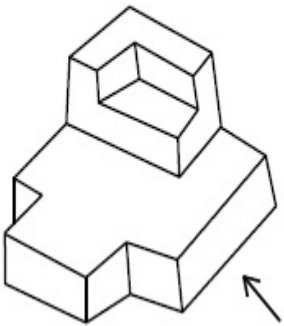
70819144648.

**Question Number : 73 Question Id : 70819113500 Question Type : MCQ Option Shuffling : Yes**

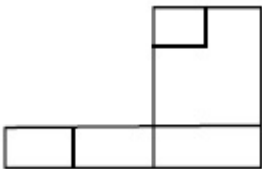
**Is Question Mandatory : No**

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

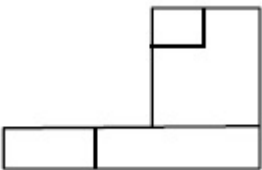
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



**Options :**

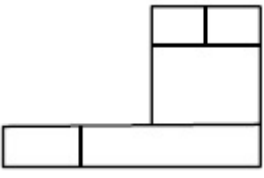


70819144649.

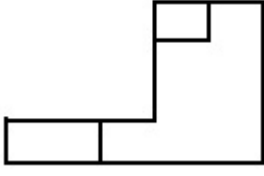


70819144650.

70819144651.



70819144652.

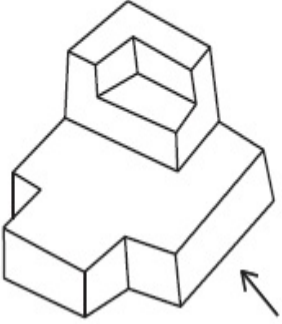


**Question Number : 73 Question Id : 70819113500 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

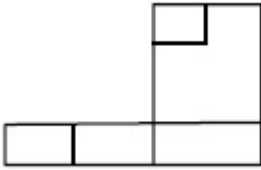
**Correct Marks : 4 Wrong Marks : 1**

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

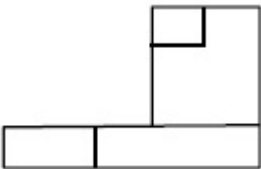


**Options :**

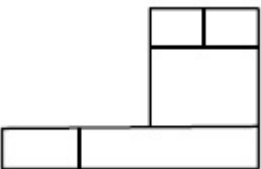
70819144649.



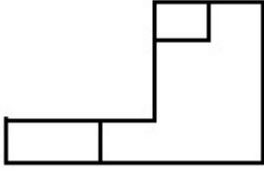
70819144650.



70819144651.



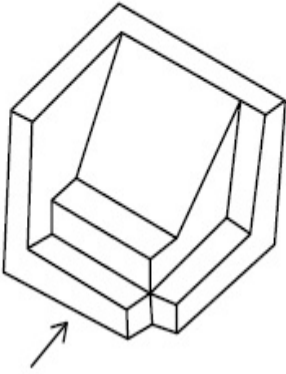
70819144652.



**Question Number : 74 Question Id : 70819113501 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

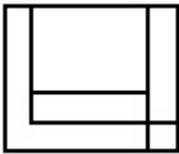
**Correct Marks : 4 Wrong Marks : 1**

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

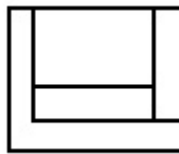


**Options :**

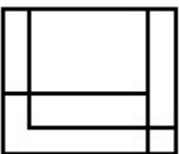
70819144653.



70819144654.

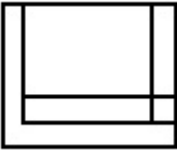


70819144655.





70819144656.

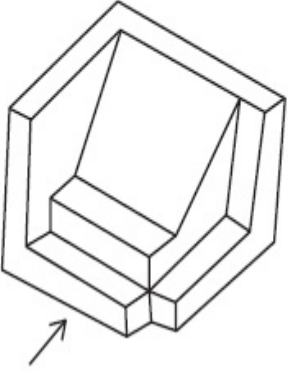


Question Number : 74 Question Id : 70819113501 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

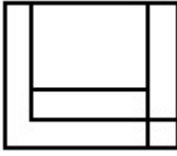
Correct Marks : 4 Wrong Marks : 1

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

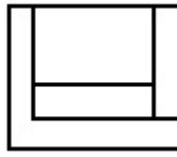


Options :

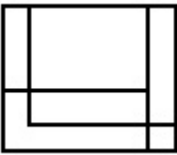
70819144653.



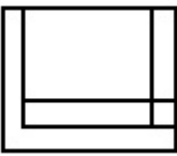
70819144654.



70819144655.



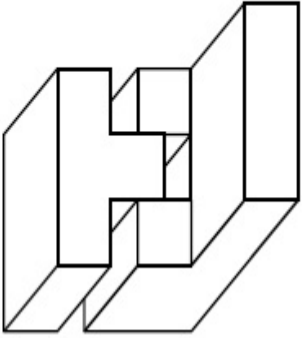
70819144656.



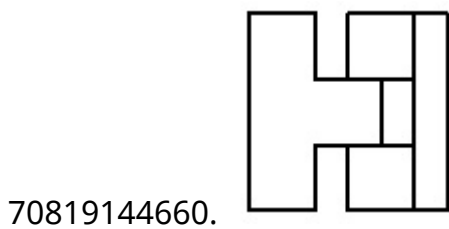
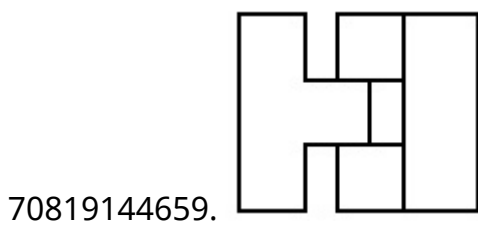
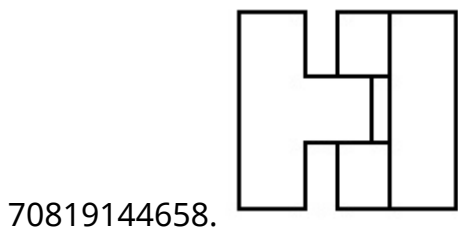
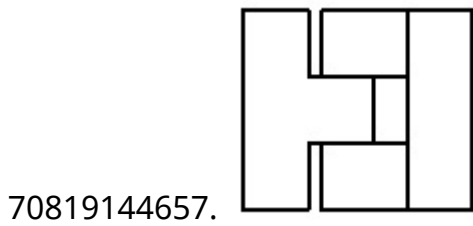
**Question Number : 75 Question Id : 70819113502 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

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



**Options :**

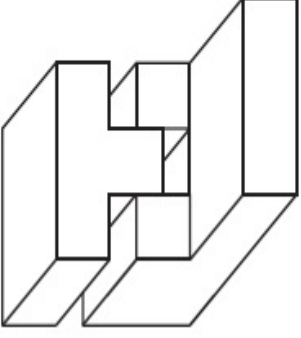


Question Number : 75 Question Id : 70819113502 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

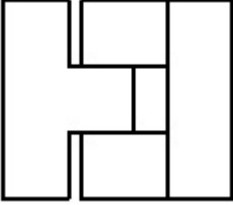
Correct Marks : 4 Wrong Marks : 1

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.

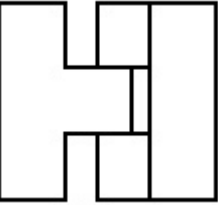


Options :

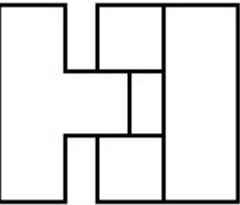
70819144657.



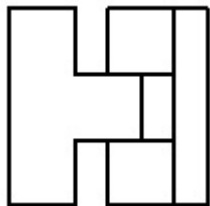
70819144658.



70819144659.



70819144660.

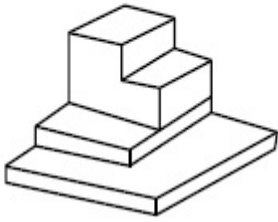


Question Number : 76 Question Id : 70819113503 Question Type : MCQ Option Shuffling : Yes

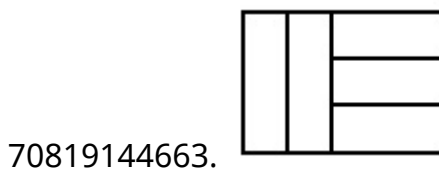
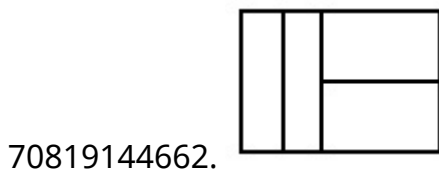
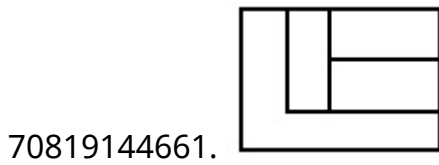
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

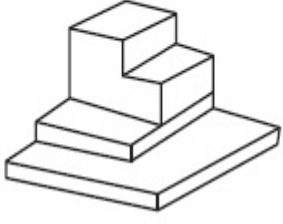


Question Number : 76 Question Id : 70819113503 Question Type : MCQ Option Shuffling : Yes

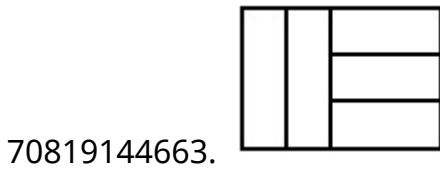
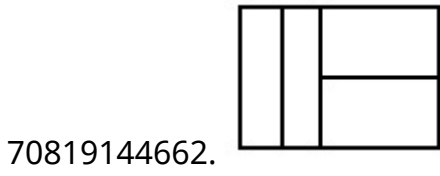
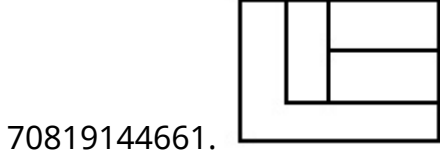
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.



**Options :**

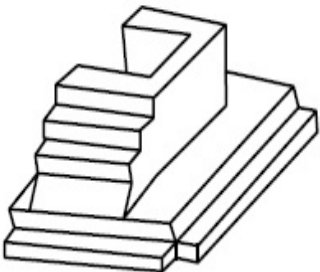


**Question Number : 77 Question Id : 70819113504 Question Type : MCQ Option Shuffling : Yes**

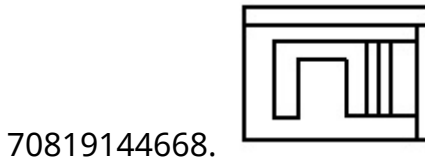
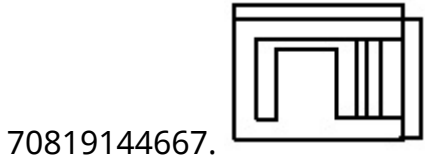
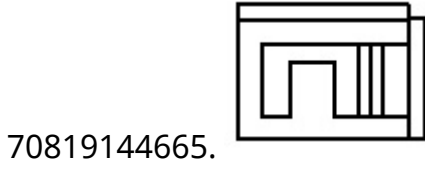
**Is Question Mandatory : No**

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

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



**Options :**

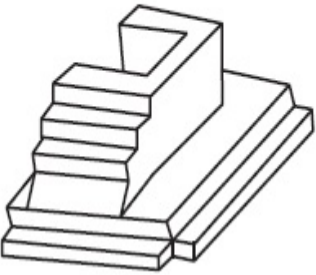


**Question Number : 77 Question Id : 70819113504 Question Type : MCQ Option Shuffling : Yes**

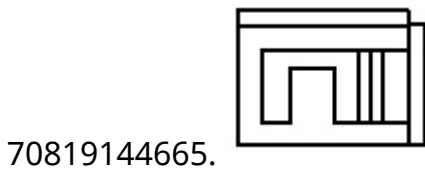
**Is Question Mandatory : No**

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

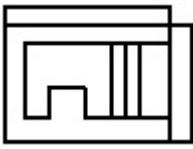
ఒక వస్తువును ఒక వైపునుంచి చూసినపుడు కనిపించే దాన్ని క్రింది 3-డి పటం చూపుతుంది. బాణం గుర్తు చూపిన దిశలో నుంచి చూసినపుడు కనిపించే బొమ్మను క్రింది జవాబు బొమ్మల్లోంచి గుర్తించండి.



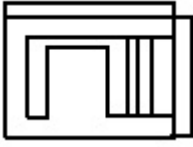
**Options :**



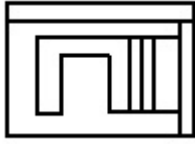
70819144666.



70819144667.



70819144668.

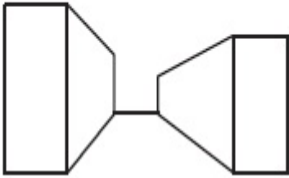


**Question Number : 78 Question Id : 70819113505 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

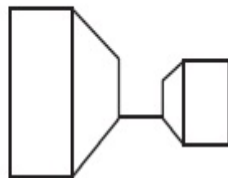
**Correct Marks : 4 Wrong Marks : 1**

Identify the building compositions of having less visual tension amongst the following figures.

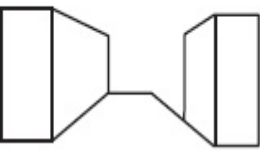
(A)



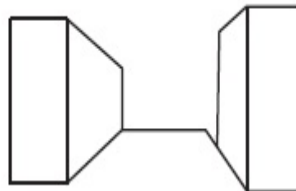
(B)



(C)



(D)



**Options :**

70819144669. (A) and (B)

70819144670. (B) and (C)

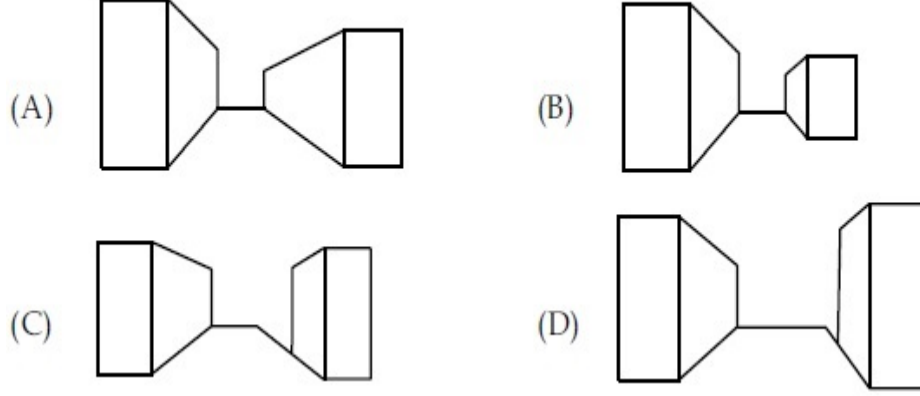
70819144671. (C) and (D)

70819144672. (D) and (A)

Question Number : 78 Question Id : 70819113505 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ఈ క్రింద ఇవ్వబడిన భవనాల మేళనలో మన కళ్ళకు అతి తక్కువ శాతం ఒత్తిడి కలిగించేవి గుర్తించండి.



Options :

70819144669. (A) మరియు (B)

70819144670. (B) మరియు (C)

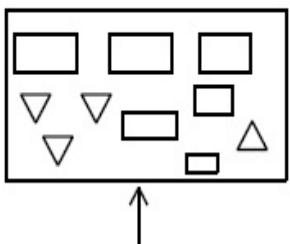
70819144671. (C) మరియు (D)

70819144672. (D) మరియు (A)

Question Number : 79 Question Id : 70819113506 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

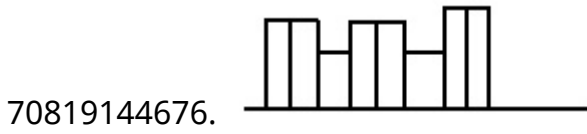
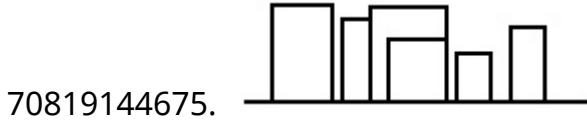
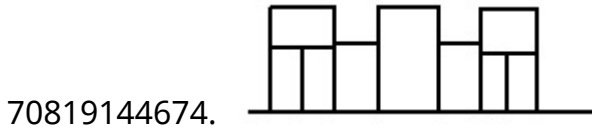
Correct Marks : 4 Wrong Marks : 1

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



Options :



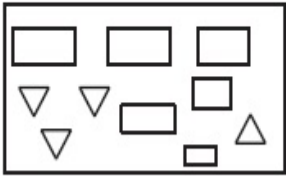


**Question Number : 79 Question Id : 70819113506 Question Type : MCQ Option Shuffling : Yes**

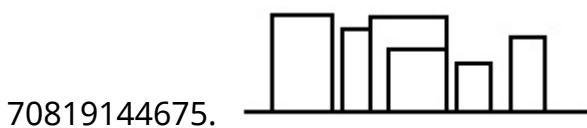
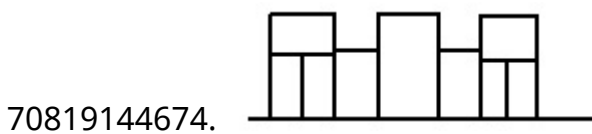
**Is Question Mandatory : No**

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

క్రింది సమస్యలో ఇచ్చిన బొమ్మ ఒక వస్తువును పై నుండి చూసినపుడు కనిపించే భాగాన్ని చూపుతుంది. బాణపు గుర్తు చూపిన దిశలో సరిగ్గా చూసినపుడు కనిపించేదాన్ని క్రింది సమాధానపు బొమ్మల్లో గుర్తించండి.



**Options :**



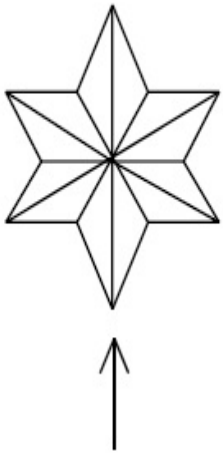
70819144676.



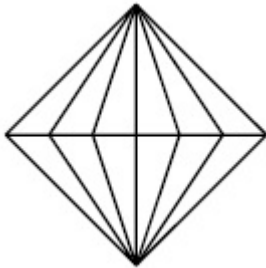
**Question Number : 80 Question Id : 70819113507 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

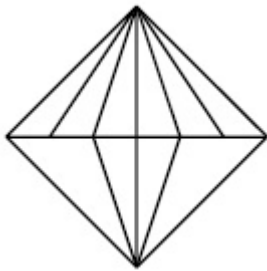
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



**Options :**

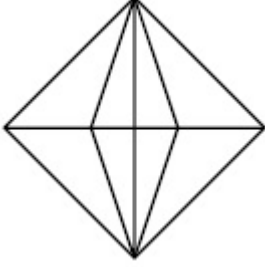
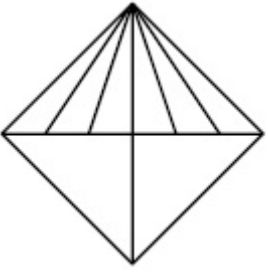


70819144677.



70819144678.

70819144679.



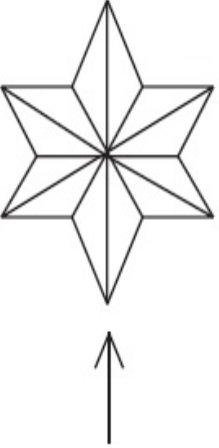
70819144680.

**Question Number : 80 Question Id : 70819113507 Question Type : MCQ Option Shuffling : Yes**

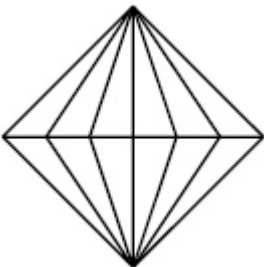
**Is Question Mandatory : No**

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

క్రింది సమస్యలో ఇచ్చిన బొమ్మ ఒక వస్తువును పై నుండి చూసినపుడు కనిపించే భాగాన్ని చూపుతుంది. బాణపు గుర్తు చూపిన దిశలో సరిగ్గా చూసినపుడు కనిపించేదాన్ని క్రింది సమాధానపు బొమ్మల్లో గుర్తించండి.

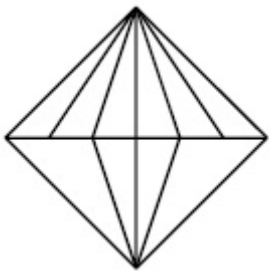


**Options :**

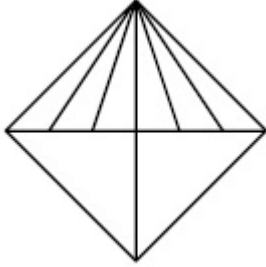


70819144677.

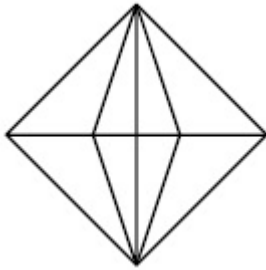
70819144678.



70819144679.



70819144680.



## Planning

<b>Section Id :</b>	708191471
<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>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191751
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 81 Question Id : 70819113508 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

Which of these industries did not exist in London before the first world war ?

**Options :**

70819144681. Automobile

70819144682. Clothing and Textile

70819144683. Printing

70819144684. Iron and Steel

**Question Number : 81 Question Id : 70819113508 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

క్రింద వాటిలో మొదటి ప్రపంచ యుద్ధానికి ముందు లండన్ లో ఏ పరిశ్రమలు లేవు?

**Options :**

70819144681. ఆటో మోటార్

70819144682. దుస్తులు మరియు వస్త్ర

70819144683. ముద్రణ

70819144684. ఇనుము మరియు ఉక్కు

**Question Number : 82 Question Id : 70819113509 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

A carbon footprint is the amount of \_\_\_\_\_ released into the atmosphere.

**Options :**

70819144685. Nitrogen

70819144686. Greenhouse gas

70819144687. Ozone

70819144688. Suspended Particulate Matter (SPM)

**Question Number : 82 Question Id : 70819113509 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

కార్బన్ ఫుట్ప్రింట్ అనేది వాతావరణంలో విడుదలైన \_\_\_\_\_ పరిమాణాన్ని తెలుపుతుంది.

**Options :**

70819144685. నత్రజని

70819144686. గ్రీన్ హౌస్ గ్యాస్

70819144687. ఓజోన్

70819144688. సస్పెండెడ్ పర్టికులేట్ మ్యాటర్ (SPM)

**Question Number : 83 Question Id : 70819113510 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

- A. KodaiKanal
- B. Kullu
- C. Mount Abu
- D. Panchgani
- E. Pahalgam

Arrange the above hill stations in the correct sequence from south to north in India.

Choose the correct answer from the options given below :

**Options :**

70819144689. E → D → B → A → C

70819144690. E → B → C → D → A

70819144691. C → A → B → D → E

70819144692. A → D → C → B → E

**Question Number : 83 Question Id : 70819113510 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

- A. కొడయి కెనాల్
- B. కుల్లు
- C. మౌంట్ ఆబూ
- D. పంచ్ గనీ
- E. పెహాల్ గామ్

పైన ఇవ్వబడిన హిల్ స్టేషన్స్ ని దక్షిణం నుండి ఉత్తరం వైపుకి క్రమములో పెట్టండి.

క్రింద ఇవ్వబడిన వికల్పంలో నుండి సరైన వికల్పాన్ని ఎన్నుకోండి :

**Options :**

70819144689. E → D → B → A → C

70819144690. E → B → C → D → A

70819144691. C → A → B → D → E

70819144692.  $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

**Question Number : 84 Question Id : 70819113511 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Planning Commission in India has been replaced by :

**Options :**

70819144693. Mo HUA

70819144694. NITI Aayog

70819144695. NIUA

70819144696. PFI

**Question Number : 84 Question Id : 70819113511 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ఏది భారత దేశంలో ప్రణాళికా సంఘం స్థానాన్ని తీసుకుంది :

**Options :**

70819144693. Mo HUA

70819144694. NITI ఆయోగ్

70819144695. NIUA

70819144696. PFI



**Question Number : 85 Question Id : 70819113512 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

When was the special Economic Zone's Act enacted in India ?

**Options :**

70819144697. 2005

70819144698. 2007

70819144699. 2009

70819144700. 2011

**Question Number : 85 Question Id : 70819113512 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

భారతదేశంలో ఏ సంవత్సరం లో ప్రత్యేక ఆర్థిక మండళ్ళ చట్టం అమలుపరచబడింది?

**Options :**

70819144697. 2005

70819144698. 2007

70819144699. 2009

70819144700. 2011

**Question Number : 86 Question Id : 70819113513 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

What is the full form of NHAI ? Choose the correct answer.

**Options :**

70819144701. National Horticulture Association of India.
70819144702. National Heritage Authority of India.
70819144703. National Hydroelectric Power Authority of India.
70819144704. National Highway Authority of India.

**Question Number : 86 Question Id : 70819113513 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

NHAI పూర్తి రూపం ఏమిటి ? సరియైన జవాబుని ఎంచుకోండి.

**Options :**

70819144701. నేషనల్ హార్టికల్చర్ అసోసియేషన్ ఆఫ్ ఇండియా
70819144702. నేషనల్ హెరిటేజ్ అథారిటీ ఆఫ్ ఇండియా
70819144703. నేషనల్ హైడ్రోఎలెక్ట్రిక్ పవర్ అథారిటీ ఆఫ్ ఇండియా
70819144704. నేషనల్ హైవే అథారిటీ ఆఫ్ ఇండియా

**Question Number : 87 Question Id : 70819113514 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

How many Sustainable Development Goals were adopted by the United Nations ?

**Options :**

70819144705. 15

70819144706. 16

70819144707. 17

70819144708. 18

**Question Number : 87 Question Id : 70819113514 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ఐక్యరాజ్య సమితి చే యెన్ని సుస్థిర అభివృద్ధి లక్ష్యాలు స్వీకరించబడ్డాయి ?

**Options :**

70819144705. 15

70819144706. 16

70819144707. 17

70819144708. 18

**Question Number : 88 Question Id : 70819113515 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

In which year, the first industrial policy by Government of India was announced ?

**Options :**

70819144709. 1947

70819144710. 1948

70819144711. 1950

70819144712. 1949

**Question Number : 88 Question Id : 70819113515 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

ఏ సంవత్సరం లో భారత ప్రభుత్వం చే మొదటి పారిశ్రామిక విధానం ప్రకటించబడింది ?

**Options :**

70819144709. 1947

70819144710. 1948

70819144711. 1950

70819144712. 1949

**Question Number : 89 Question Id : 70819113516 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

Planning of Barcelona city in Spain is known for its :

**Options :**

70819144713. superblocks

70819144714. radial pattern

70819144715. high rise development

70819144716. waterbased transport

**Question Number : 89 Question Id : 70819113516 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

స్పేయిస్ లోని బార్సిలోనా నగరం యొక్క ప్రణాళిక దేనికొరకు ప్రసిద్ధి చెందినది ?

**Options :**

70819144713. సూపర్బ్లాక్స్

70819144714. రేడియల్ నమూనా

70819144715. అత్యున్నతమైన అభివృద్ధి

70819144716. నీటి ఆధారిత రవాణా

**Question Number : 90 Question Id : 70819113517 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which of these is not an industrial city ?

**Options :**

70819144717. Durgapur

70819144718. Vishakhapatnam

70819144719. Bhubaneswar

70819144720. Bhilai

**Question Number : 90 Question Id : 70819113517 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

వీటిలో ఏది పారిశ్రామిక పట్టణం కాదు ?

**Options :**

70819144717. దుర్గాపూర్

70819144718. విశాఖపట్టణం

70819144719. భువనేశ్వర్

70819144720. భీలాయి

**Question Number : 91 Question Id : 70819113518 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which of these schemes / programmes by Government of India is linked to heritage cities ?

**Options :**

70819144721. AMRUT

70819144722. Make in India

70819144723. HRIDAY

70819144724. UDAY

**Question Number : 91 Question Id : 70819113518 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

క్రింది పథకాలు/కార్యక్రమాల్లో ఏది భారత ప్రభుత్వంచే హెరిటేజ్ నగరాలతో అనుసంధానించబడింది ?

**Options :**

70819144721. AMRUT

70819144722. Make in India

70819144723. HRIDAY

70819144724. UDAY

**Question Number : 92 Question Id : 70819113519 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which one of the following south Indian states has the highest ground water utilization (in percent) of its total groundwater potential ?

**Options :**

70819144725. Tamil Nadu

70819144726. Karnataka

70819144727. Andhra Pradesh

70819144728. Kerala

**Question Number : 92 Question Id : 70819113519 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

క్రింది దక్షిణాది రాష్ట్రాలలో ఏ రాష్ట్రం మొత్తం భూగర్భ జల లభ్యతలో అత్యధిక భూగర్భ జల వినియోగాన్ని (శాతంలో) కలిగి ఉంది ?

**Options :**

70819144725. తమిళనాడు

70819144726. కర్ణాటక

70819144727. ఆంధ్ర ప్రదేశ్

70819144728. కేరళ

**Question Number : 93 Question Id : 70819113520 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Survey of India was established in :

**Options :**

70819144729. 1886

70819144730. 1876

70819144731. 1866

70819144732. 1896

**Question Number : 93 Question Id : 70819113520 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**



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

సర్వే ఆఫ్ ఇండియా ఏ సంవత్సరం లో స్థాపించబడినది :

**Options :**

70819144729. 1886

70819144730. 1876

70819144731. 1866

70819144732. 1896

**Question Number : 94 Question Id : 70819113521 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

As per 73<sup>rd</sup> amendment act (73<sup>rd</sup> CAA) 1992 first time one third (1/3) reservation for women was provided in which of the following ?

**Options :**

70819144733. Lok Sabha

70819144734. State Legislative Assembly

70819144735. Cabinets

70819144736. Panchayati Raj bodies

**Question Number : 94 Question Id : 70819113521 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

73వ సవరణ చట్టం (73 CAA) 1992 ప్రకారం మొదటిసారి 1/3 సీట్లు మహిళలకు వేటిలో రిజర్వ్ చేయబడ్డాయి.

**Options :**

70819144733. లోక్ సభ

70819144734. రాష్ట్ర శాసన సభ

70819144735. క్యాబినెట్

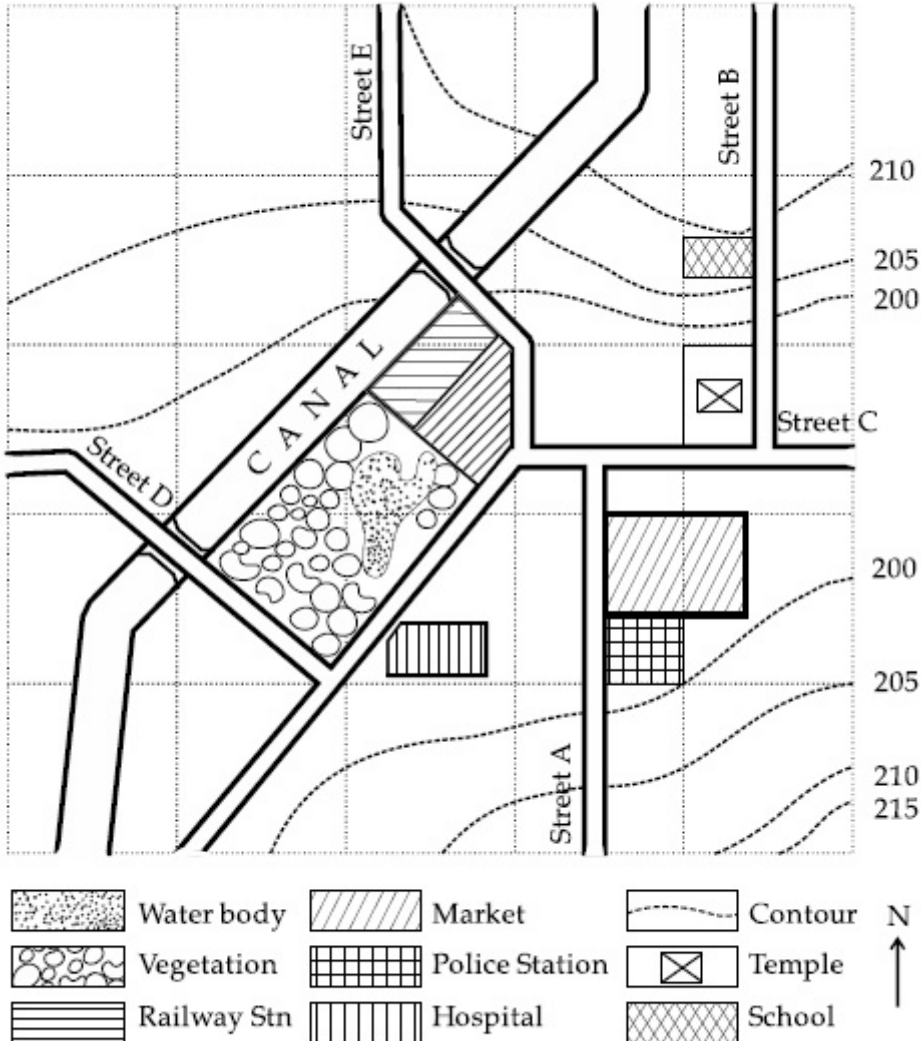
70819144736. పంచాయత్ రాజ్ బాడీస్

**Question Number : 95 Question Id : 70819113522 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

**Map Reading.**



With reference to the diagram, choose the correct statement.

**Options :**

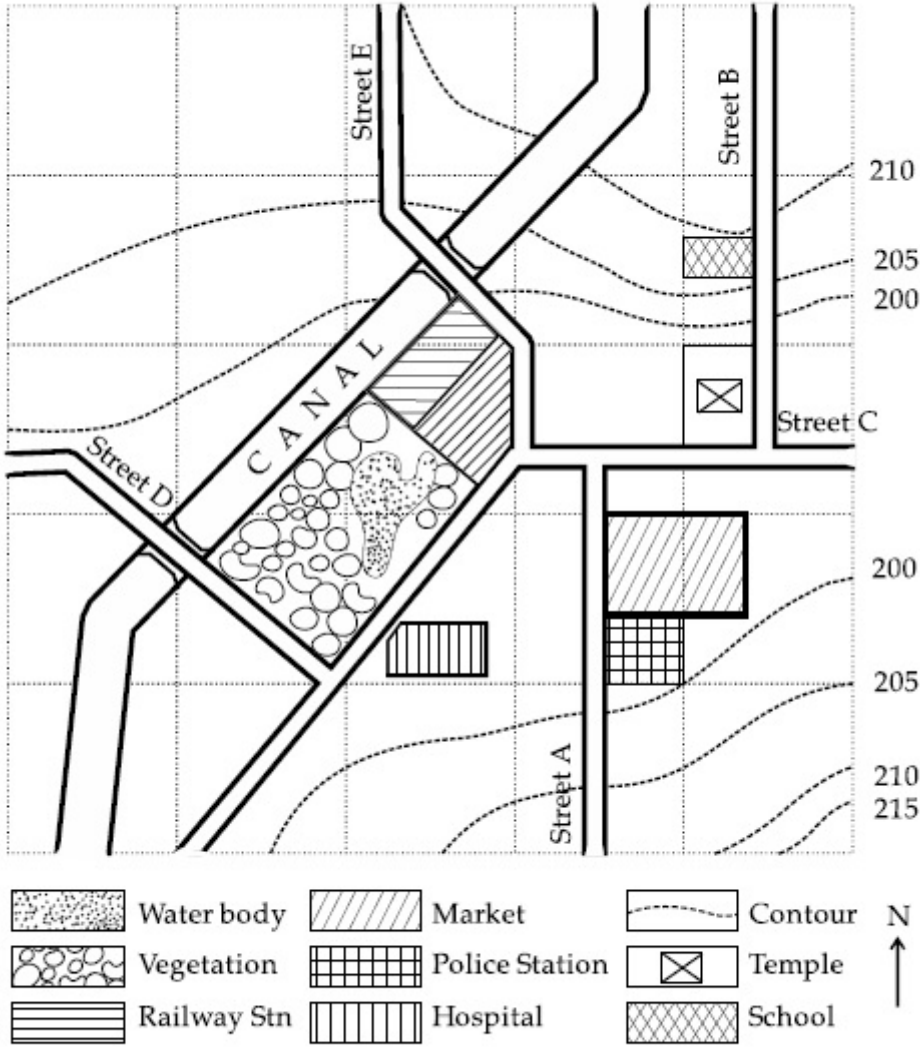
70819144737. Slope of land on which school is located is flatter than the slope of land on which hospital is located.
70819144738. Slope of land on which police station is located is steeper than the slope of land on which school is located.
70819144739. Slope of land on which school is located is steeper than the slope of land on which temple is located.
70819144740. Slope of land on which school is located is the same as the slope of land on which temple is located.

**Question Number : 95 Question Id : 70819113522 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

## Map Reading.



పై చిత్రాన్ని బట్టి సరైన ప్రవచనాన్ని ఎంచుకోండి.

### Options :

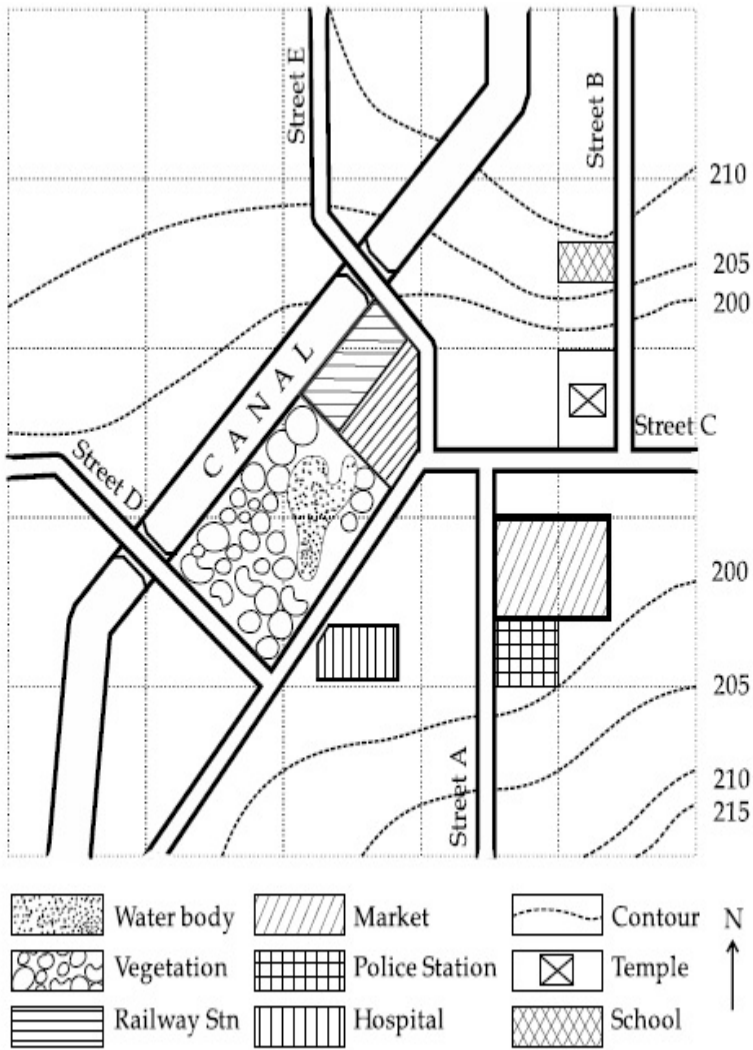
70819144737. ఆసుపత్రి ఉన్న చోట భూమి వాలు కన్న పాఠశాల ఉన్న భూమి వాలు చదునుగా ఉంది.
70819144738. పాఠశాల ఉన్న చోట భూమి వాలు కన్న పోలీసు స్టేషను ఉన్న చోట భూమి వాలు ఎత్తుగా ఉంది.
70819144739. గుడి ఉన్న చోట భూమి వాలు కన్న పాఠశాల ఉన్న చోట భూమి వాలు ఎత్తుగా ఉంది.
70819144740. పాఠశాల ఉన్న చోట భూమి వాలు మరియు గుడి ఉన్న చోట భూమి వాలు సమానంగా ఉన్నాయి.

Question Number : 96 Question Id : 70819113523 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



In the given diagram, for a person to travel from railway station to temple, one will have to move in \_\_\_\_\_ direction.

Options :

70819144741. North

70819144742. North - East

70819144743. South - West

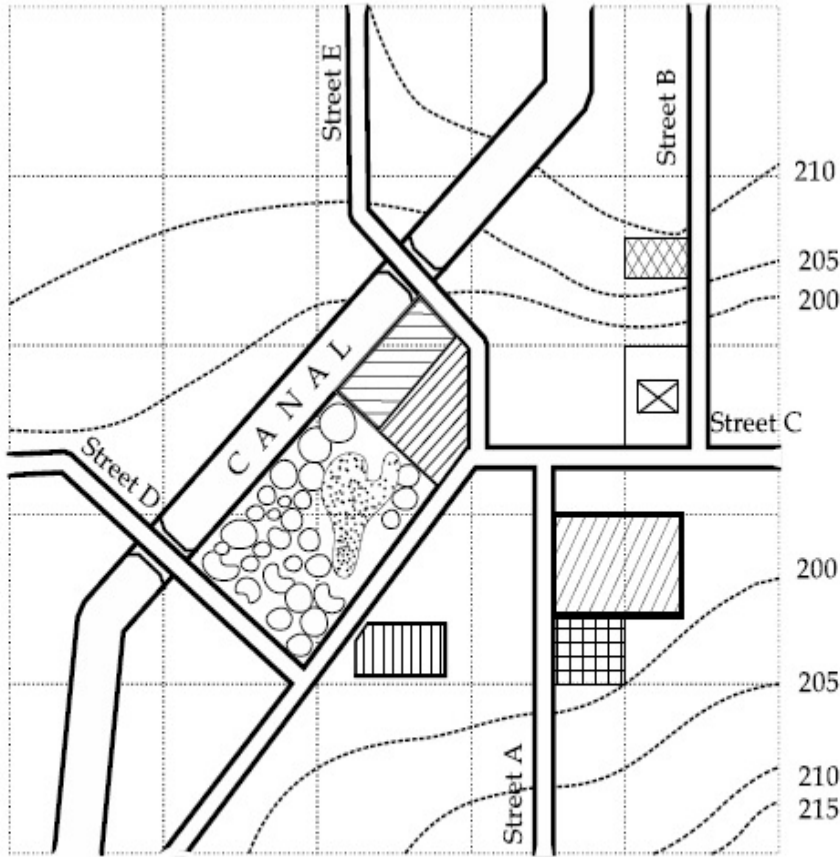
70819144744. East



Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



ఇచ్చిన పటం ప్రకారం, రైల్వే స్టేషన్ నుండి గుడివైపుకి వెళ్ళడానికి \_\_\_\_\_ దిశలో వెళ్ళాలి.

Options :

70819144741. ఉత్తర దిశ

70819144742. ఈశాన్యం

70819144743. నైరుతి

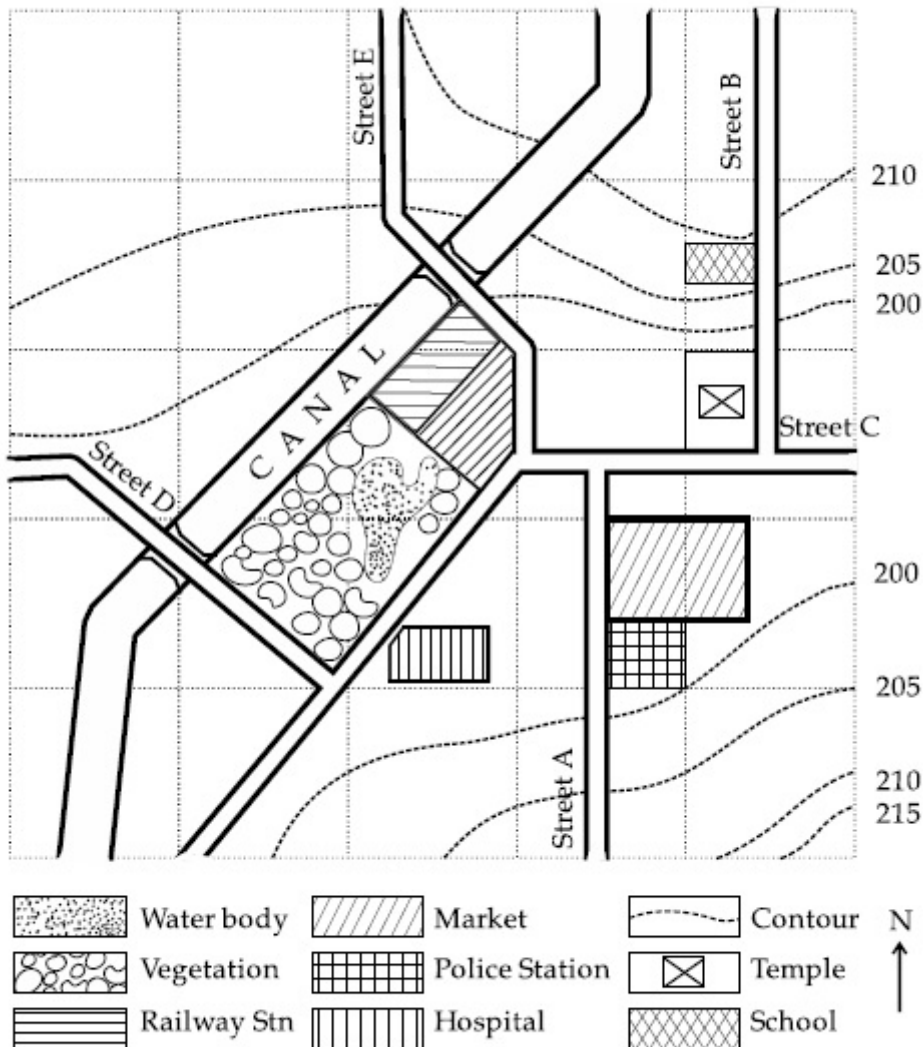
70819144744. తూర్పు

Question Number : 97 Question Id : 70819113524 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



In the given diagram, water body is located at a level :

Options :

70819144745. 5 m higher than police station.

70819144746. 5 m higher than school.

70819144747. same level as police station.

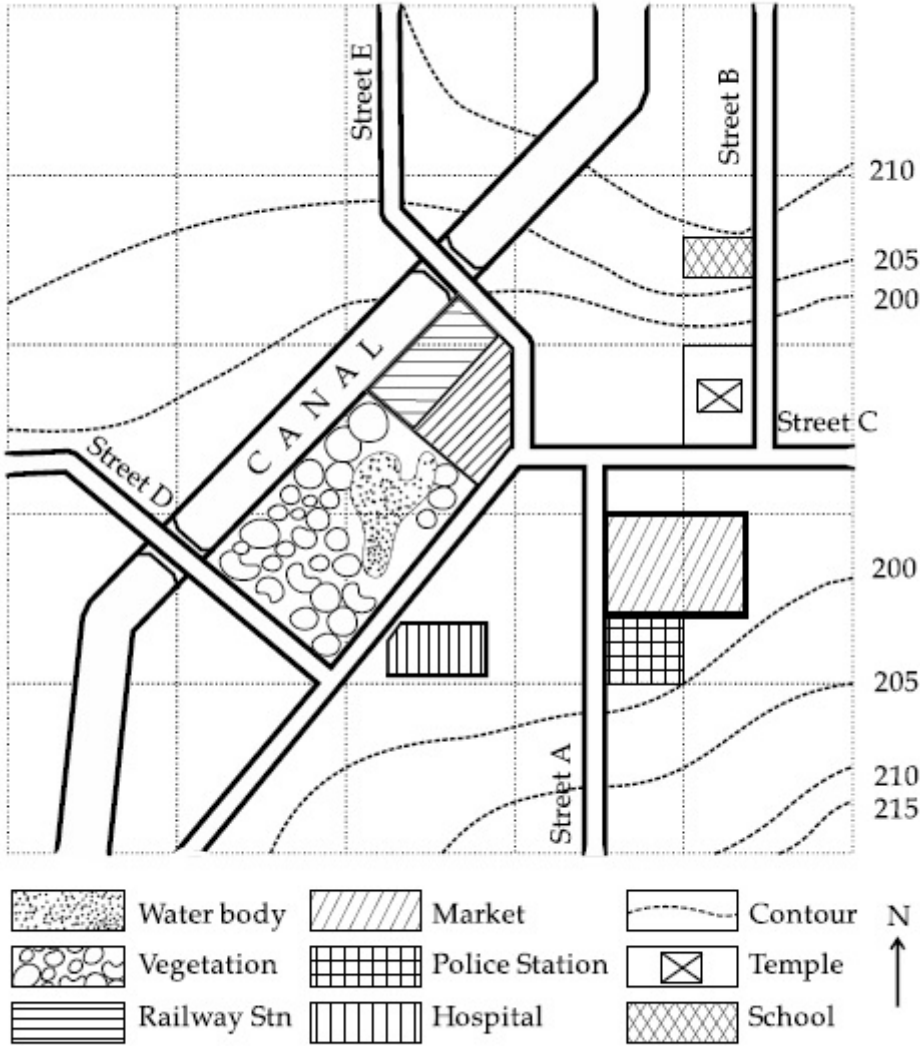
70819144748. same level as school.

Question Number : 97 Question Id : 70819113524 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



ఇచ్చిన పటంలో నీరు ఉన్న ప్రాంతం అనేది :

Options :

70819144745. పోలీసు స్టేషను ఉన్న ప్రాంతం కన్న 5 మీ. ఎగువన ఉంది.

70819144746. పాఠశాల ఉన్న ప్రాంతం కన్న 5 మీ. ఎగువన ఉంది.

70819144747. పోలీసు స్టేషను ఉన్న ప్రాంతంకి సమతలంగా ఉంది.

70819144748. పాఠశాల ఉన్న ప్రాంతంకి సమతలంగా ఉంది.

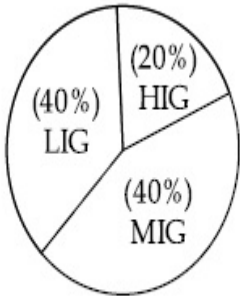


**Question Number : 98 Question Id : 70819113525 Question Type : MCQ Option Shuffling : Yes**

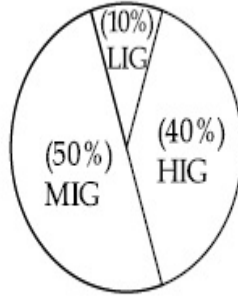
**Is Question Mandatory : No**

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

The following pie-charts show the distribution of students enrolled in higher secondary and in college education, with respect to the household income of their families.



Higher Secondary Education



College Education

The ratio between the number of students from LIG household category studying at higher secondary to those in college is :

**Options :**

70819144749. 4 : 1

70819144750. 1 : 5

70819144751. 6 : 1

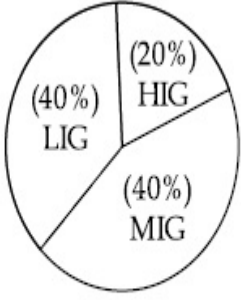
70819144752. 1 : 4

**Question Number : 98 Question Id : 70819113525 Question Type : MCQ Option Shuffling : Yes**

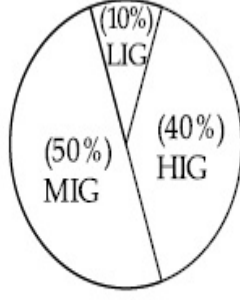
**Is Question Mandatory : No**

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

ఆయా కుటుంబాల ఆదాయం (HIG, MIG, LIG) ఆధారంగా వారి పిల్లలు ఉన్నత పాఠశాల విద్య మరియు కళాశాల విద్యకై సమోదు చేసుకుంటున్న విద్యార్థుల వివరాలను క్రింది పీ చిత్రాలు చూపుతున్నాయి.



ఉన్నత పాఠశాల విద్య



కళాశాల విద్య

LIG వర్గాల నుండి ఉన్నత పాఠశాల విద్యనభ్యసిస్తున్న విద్యార్థుల సంఖ్యకు, కళాశాల విద్యనభ్యసిస్తున్న విద్యార్థుల సంఖ్యకు గల నిష్పత్తి :

**Options :**

70819144749. 4 : 1

70819144750. 1 : 5

70819144751. 6 : 1

70819144752. 1 : 4

**Question Number : 99 Question Id : 70819113526 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

The surface area of earth is 510 million km<sup>2</sup>. The land area is thirty percent of total surface. Urban land is three percent of total land surface. World population is 7.8 billion and fifty five percent is urban population. Find the closest correct answer.

**Options :**

70819144753. The density of population in urban area is 1000 persons/sq.km.

70819144754. The density of population in urban area is 849 persons/sq.km.

70819144755. The density of population in urban area is 4290 persons/sq.km.

70819144756. The density of population in urban area is 7800 persons/sq.km.

**Question Number : 99 Question Id : 70819113526 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

భూగోళం యొక్క మొత్తం ఉపరితల వైశాల్యం 510 మిలియన్ చదరపు మీటర్లు. అందులో 30% భూమి వైశాల్యం. భూమి వైశాల్యంలో 3% పట్టణ ప్రాంతంగా ఉంది. ప్రపంచ జనాభా 7.8 బిలియన్లు మరియు అందులో 55% పట్టణ ప్రాంత ప్రజలు. క్రింది వాటిలో సరియైన దాన్ని గుర్తించండి.

**Options :**

70819144753. పట్టణ ప్రాంతంలో జన సాంద్రత ప్రతి చదరపు కి.మీ.కు 1000 మంది.

70819144754. పట్టణ ప్రాంతంలో జన సాంద్రత ప్రతి చదరపు కి.మీ.కు 849 మంది.

70819144755. పట్టణ ప్రాంతంలో జన సాంద్రత ప్రతి చదరపు కి.మీ.కు 4290 మంది.

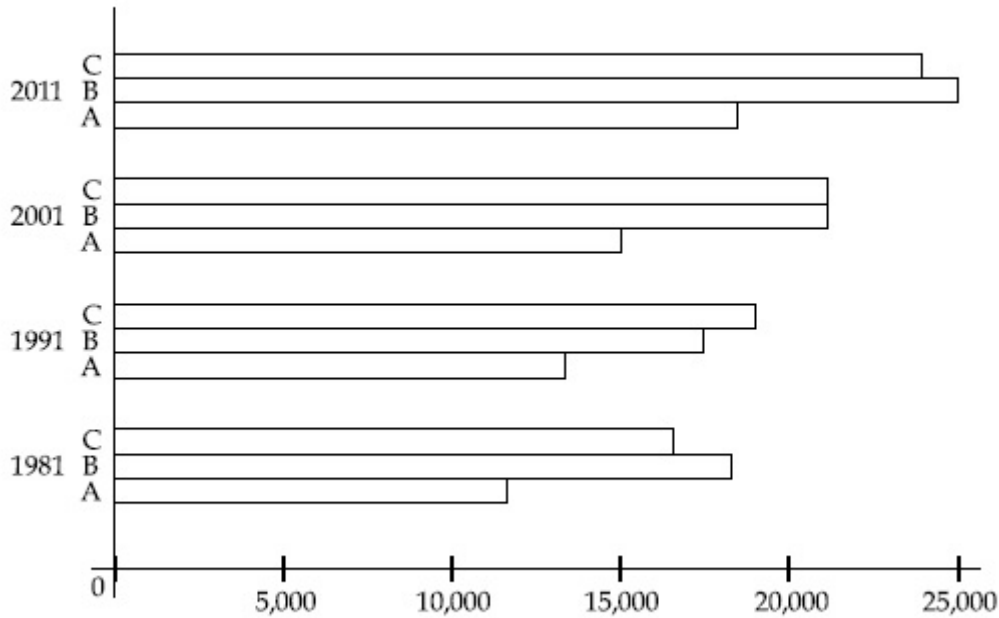
70819144756. పట్టణ ప్రాంతంలో జన సాంద్రత ప్రతి చదరపు కి.మీ.కు 7800 మంది.

**Question Number : 100 Question Id : 70819113527 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Population of city A, B and C from 1981-2011.



Choose the correct statement :

**Options :**

70819144757. City A shows the increase in population from 1981 to 2011 and city C does not show the increase likewise.

70819144758. City B shows a continuous decline in population from 1981-2011 whereas city A shows an increase.

70819144759. Population in city A is increasing in each decade from 1981 to 2001 whereas city B shows a decline from 1981 to 1991 and then it increases from 1991 to 2001.

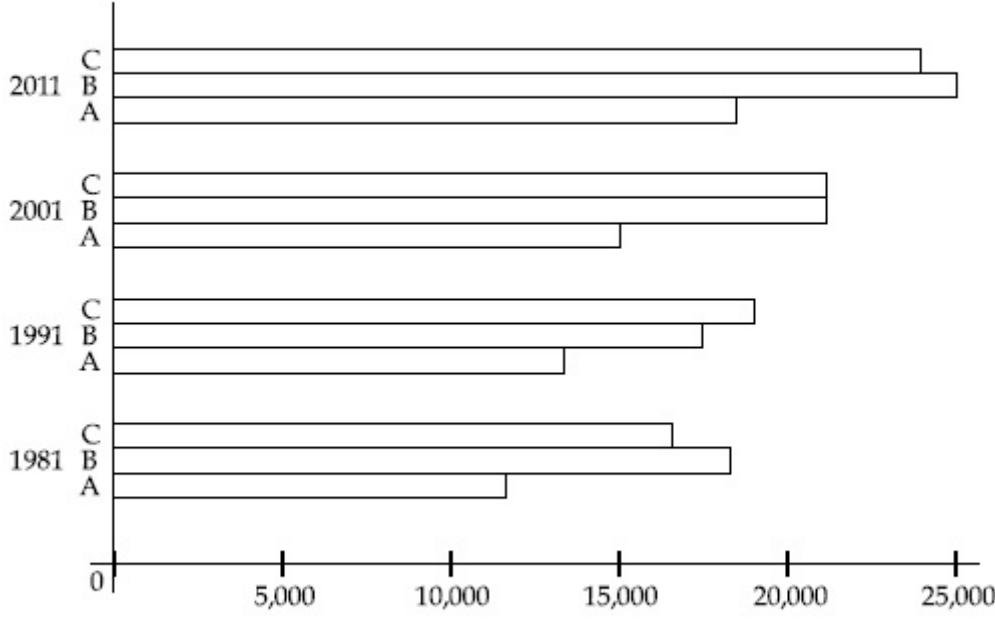
70819144760. City C shows continuous decline in population in various decades whereas city B shows increase.

**Question Number : 100 Question Id : 70819113527 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

1981 నుండి 2011 వరకు A, B, C నగరాల జనాభాను క్రింది పటం చూపుతుంది.



సరైన ప్రవచనాన్ని ఎంచుకోండి :

**Options :**

70819144757. నగరం A లో 1981 నుండి 2011 వరకు జనాభా పెరుగుదల చూపిస్తుంది. కానీ అదేవిధంగా నగరం C లో పెరుగుదల చూపించడం లేదు.

70819144758. నగరం B లో 1981-2011 వరకు నిరంతర జనాభా క్షీణించినట్లు చూపిస్తుంది. కానీ నగరం A లో పెరుగుదల చూపిస్తుంది.

70819144759. 1981 నుండి 2001 వరకు నగరం A లో జనాభా ప్రతి దశాబ్దానికి పెరుగుతుంది. కానీ నగరం B లో 1981 నుండి 1991 వరకు జనాభా క్షీణత చూపిస్తుంది. మరియు 1991 నుండి 2001 వరకు పెరుగుదల చూపిస్తుంది.

70819144760. ప్రతి దశాబ్దానికి నగరం C జనాభా పెరుగుదలలో నిరంతర క్షీణత చూపిస్తుంది కానీ నగరం B లో పెరుగుదల చూపిస్తుంది.

**Question Number : 101 Question Id : 70819113528 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

In a survey, the speeds of 100 vehicles were observed. The following table gives the distribution of vehicle speed and the corresponding number of vehicles.

Vehicle Speed ( $\text{kmhr}^{-1}$ )	No. of Vehicles
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

The median speed of the vehicles is :

**Options :**

70819144761.  $26 \text{ kmhr}^{-1}$

70819144762.  $21.5 \text{ kmhr}^{-1}$

70819144763.  $30 \text{ kmhr}^{-1}$

70819144764.  $28.5 \text{ kmhr}^{-1}$

**Question Number : 101 Question Id : 70819113528 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



ఒక స్వేచ్ఛలో 100 వాహనాల వేగాలను గమనించిరి. క్రింది పట్టికలో వాహనాల వేగం మరియు దాని సంబంధిత వాహనాల సంఖ్య తెలియజేస్తుంది.

వాహన వేగం (kmhr <sup>-1</sup> )	వాహనాల సంఖ్య
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

వాహనాల మధ్యస్థ వేగం :

**Options :**

70819144761. గంటకు 26 కి.మీ.

70819144762. గంటకు 21.5 కి.మీ.

70819144763. గంటకు 30 కి.మీ.

70819144764. గంటకు 28.5 కి.మీ.

**Question Number : 102 Question Id : 70819113529 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

Which of the following best justify 'Slum Tourism' in the above paragraph ?

**Options :**

70819144765. As a charity by privileged people.

70819144766. As a way to reduce crime.

70819144767. As a way to sensitize travellers about poor living conditions in the society.

70819144768. As an adventure activity.

**Question Number : 102 Question Id : 70819113529 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

Which of the following best justify 'Slum Tourism' in the above paragraph ?

**Options :**

70819144765. As a charity by privileged people.

70819144766. As a way to reduce crime.

70819144767. As a way to sensitize travellers about poor living conditions in the society.

70819144768. As an adventure activity.

**Question Number : 103 Question Id : 70819113530 Question Type : MCQ Option Shuffling : Yes**



**Is Question Mandatory : No**

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

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

The nearest meaning of 'Gawking' in this paragraph would be :

**Options :**

70819144769. Learning

70819144770. Staring

70819144771. Peeping

70819144772. Gloating

**Question Number : 103 Question Id : 70819113530 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Hundreds of Shanty towns line the river banks, train tracks, and garbage dumps in the Filipino capital. Around a quarter of its 12 million are considered 'informal settlers'. Manila is starkly representative of a global problem. According to the United Nations, about a quarter of the World's urban population lives in slums.

Slum tourism takes outsiders through their most impoverished marginalized districts. Slum tourism sparks considerable debate around an uncomfortable moral dilemma. Many consider the practice little more than slack-jawed privileged people gawking at those less fortunate. Others argue they raise awareness and provide numerous examples of giving back to the local communities.

The nearest meaning of 'Gawking' in this paragraph would be :

**Options :**

70819144769. Learning

70819144770. Staring

70819144771. Peeping

70819144772. Gloating

**Question Number : 104 Question Id : 70819113531 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A : Over the last two decades collective attention span is decreasing.

Reason R : Quick availability and rapid access to large amount of information leads to loss of interest in one topic very quickly.

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

**Options :**

70819144773. Both A and R are true and R is the correct explanation of A

70819144774. Both A and R are true but R is NOT the correct explanation of A

70819144775. A is true but R is false

70819144776. A is false but R is true

**Question Number : 104 Question Id : 70819113531 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

క్రింద రెండు వివరణలు ఇవ్వబడ్డాయి. ఒకటి కథనం A మరియు రెండువది కారణం R :

కథనం A : గత రెండు దశాబ్దాలుగా సామూహిక దృష్టి సారించు సమయం తగ్గుతుంది.

కారణం R : త్వరిత అందుబాటు మరియు అతి సులువుగా ఎక్కువ సమాచారం లభించుట వలన ఒక విషయం పట్ల ఇష్టం తొలిగిస్తుంది.

పై కథనం ప్రకారంగా, క్రింద ఇవ్వబడిన సమాధానాలలో సరైన సమాధానాన్ని ఎంచుకోండి :

**Options :**

70819144773. A మరియు R, రెండూ సరైనవి మరియు R, A కి సరైన వివరణ

70819144774. A మరియు R, రెండూ సరైనవి కానీ R, A కి సరైన వివరణ కాదు

70819144775. A సరైనది కానీ R సరైనది కాదు

70819144776. A సరైనది కాదు కానీ R సరైనది

**Question Number : 105 Question Id : 70819113532 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R :

Assertion A : In past two decades, rate of divorce has increased in India.

Reason R : Increasing number of married couples do not want to have children.

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

**Options :**

70819144777. Both A and R are true and R is the correct explanation of A

70819144778. Both A and R are true but R is NOT the correct explanation of A

70819144779. A is true but R is false

70819144780. A is false but R is true

Question Number : 105 Question Id : 70819113532 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

క్రింద రెండు వివరణలు ఇవ్వబడ్డాయి. ఒకటి కథనం A మరియు రెండువది కారణం R :

కథనం A : గత రెండు దశాబ్దాలుగా భారతదేశంలో విద్యకుల రేటు పెరుగుతున్నది.

కారణం R : పిల్లలు ఒద్దనుకుంటున్న వైవాహిక దంపతుల సంఖ్య పెరుగుతున్నది.

పై కథనం ప్రకారంగా, క్రింద ఇవ్వబడిన సమాధానాలలో సరైన సమాధానాన్ని ఎంచుకోండి :

Options :

70819144777. A మరియు R రెండూ సరైనవి మరియు R, A కి సరైన వివరణ

70819144778. A మరియు R రెండూ సరైనవి కానీ R, A కి సరైన వివరణ కాదు

70819144779. A సరైనది కానీ R సరైనది కాదు

70819144780. A సరైనది కాదు కానీ R సరైనది

## Drawing

Section Id :	708191472
Section Number :	5
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191752



**Question Shuffling Allowed :**

No

**Question Number : 106 Question Id : 70819113533 Question Type : SUBJECTIVE**

**Correct Marks : 50**

Draw a proportionate sketch of given reference image by using any black and white rendering techniques of your own choice.

OR

Decode image and prepare balanced composition in a frame of your choice by using any black and white rendering techniques.



**Question Number : 106 Question Id : 70819113533 Question Type : SUBJECTIVE**

**Correct Marks : 50**

మీకు నచ్చిన ఏదైనా నలుపు మరియు తెలుపు రంగుల రెండరింగ్ పద్ధతులను ఉపయోగించి ఇచ్చిన చిత్రం యొక్క దామషా ఆకారం గీయండి.

**లేదా**

ఏదైనా నలుపు మరియు తెలుపు రెండరింగ్ పద్ధతులను ఉపయోగించి చిత్రాన్ని డీకోడ్ చేయండి మరియు మీకు నచ్చిన ఫ్రేమ్లో సమతుల్య కూర్పును సిద్ధంచేయండి.



**Question Number : 107 Question Id : 70819113534 Question Type : SUBJECTIVE**

**Correct Marks : 50**

Draw a scene of a Kite festival by using colors.

**OR**

Draw a Harmonic three dimensional composition with the following two types of objects.

(i) CUBOID A : SIZE 2 cm × 2 cm × 2 cm, 5 Nos.

(ii) CUBOID B : SIZE 5 cm × 2 cm × 2 cm, 4 Nos.

Use 'Cool Colorscheme' for composition.

**Question Number : 107 Question Id : 70819113534 Question Type : SUBJECTIVE**

**Correct Marks : 50**

రంగులను ఉపయోగించి ఒక పతంగుల పండగ యొక్క దృశ్యాన్ని గీయండి.

**లేదా**

కింది రెండు రకాల వస్తువులతో హార్మోనిక్ త్రిమితీయ కూర్పును గీయండి.

(i) క్యూబాయిడ్ A : పరిమాణం 2 cm × 2 cm × 2 cm, 5 నెంబర్లు

(ii) క్యూబాయిడ్ B : పరిమాణం 5 cm × 2 cm × 2 cm, 4 నెంబర్లు

కూర్పుకు "కూల్ కలర్ స్కీమ్"ను ఉపయోగించుము.