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

Group Number :	1
Group Id :	708191158
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Show Attended Group? :	No
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Break time :	0
Group Marks :	500
Is this Group for Examiner? :	No

Mathematics Section A

Section Id :	708191530
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191810
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 70819114726 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 :

70819149051. $\frac{121}{3}$

70819149052. $\frac{122}{3}$

70819149053. $\frac{125}{3}$

70819149054. $\frac{128}{3}$

Question Number : 1 Question Id : 70819114726 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$$\int_{-4}^4 |9-x^2| dx \text{ નું મૂલ્ય } \underline{\hspace{2cm}} \text{ છે.}$$

Options :

70819149051. $\frac{121}{3}$

70819149052. $\frac{122}{3}$

70819149053. $\frac{125}{3}$

70819149054. $\frac{128}{3}$

Question Number : 2 Question Id : 70819114727 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 :

70819149055. $\frac{31}{13}$

70819149056. $\frac{108}{13}$

70819149057. $\frac{27}{2}$

70819149058. $\frac{54}{7}$

Question Number : 2 Question Id : 70819114727 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

એક સમગુણોત્તર શ્રેણીનાં અનંત પદોનો સરવાળો 3 અને તે પદોના વર્ગોનો સરવાળો $\frac{9}{2}$ છે. તો તે પદોનાં ધનનો સરવાળો _____ છે.

Options :

70819149055. $\frac{31}{13}$

70819149056. $\frac{108}{13}$

70819149057. $\frac{27}{2}$

70819149058. $\frac{54}{7}$

Question Number : 3 Question Id : 70819114728 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 :

70819149059. $P \Leftrightarrow P \vee q$

70819149060. $(P \wedge q) \Leftrightarrow P$

70819149061. $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819149062. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 3 Question Id : 70819114728 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચેનાં પૈકીની કઈ બૂલીય અભિવ્યક્તિ નિત્ય સત્ય છે ?

Options :

70819149059. $p \Leftrightarrow p \vee q$

70819149060. $(p \wedge q) \Leftrightarrow p$

70819149061. $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819149062. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 4 Question Id : 70819114729 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 :

70819149063. a, b and c are in Arithmetic Progression

70819149064. a, b and c are in Geometric Progression

70819149065. $a, 2b$ and c are in Arithmetic Progression

70819149066. a, b and c satisfy $2b^2 = ac$

Question Number : 4 Question Id : 70819114729 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ધારો કે $|a| < 1, |b| < 1, |c| < 1$ અને $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$ છે. જો $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$ સમાંતર શ્રેણીમાં

હોય, તો :

Options :

70819149063. a, b અને c સમાંતર શ્રેણીમાં છે.

70819149064. a, b અને c સમગુણોત્તર શ્રેણીમાં છે.

70819149065. $a, 2b$ અને c સમાંતર શ્રેણીમાં છે.

70819149066. a, b અને c , એ $2b^2 = ac$ નું સમાધાન કરે છે.

Question Number : 5 Question Id : 70819114730 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 :

70819149067. $15e + 5$

70819149068. $15e - 5$

70819149069. $16e - 5$

70819149070. $16e - 7$

Question Number : 5 Question Id : 70819114730 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!} = \underline{\hspace{2cm}}.$$

Options :

70819149067. $15e + 5$

70819149068. $15e - 5$

70819149069. $16e - 5$

70819149070. $16e - 7$

Question Number : 6 Question Id : 70819114731 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Options :

70819149071. 5

70819149072. 3

70819149073. 7

70819149074. 1

Question Number : 6 Question Id : 70819114731 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$10^{50} + (3 \times (4)^{52}) + \lambda$ એ 9 વડે વિભાજ્ય અને તેવી λ ની નાનામાં નાની ધન પૂર્ણાંક સંખ્યા _____ છે.

Options :

70819149071. 5

70819149072. 3

70819149073. 7

70819149074. 1

Question Number : 7 Question Id : 70819114732 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 :

70819149075. 455

70819149076. 421

70819149077. 435

70819149078. 441

Question Number : 7 Question Id : 70819114732 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ત્રણ સમાંતર અને સમતલીય રેખાઓ પર 4, 5 અને 6 બિંદુઓ આવેલા છે. જો ચાર કે તેથી વધુ બિંદુઓ ચક્રિય હોય તેવો કોઈ ગણ ન હોય અને બિન્ન રેખા પર આવેલા ત્રણ બિંદુઓ સમરેખ હોય, તેવો કોઈ ગણ ન હોય, તો બરાબર ત્રણ બિંદુઓ માંથી પસાર થતાં વર્તુળોની સંખ્યા _____ છે.

Options :

70819149075. 455

70819149076. 421

70819149077. 435

70819149078. 441

Question Number : 8 Question Id : 70819114733 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 :

70819149079. $a = 1, b = 0$

70819149080. $a = 0, b = 1$

70819149081. $a = 0, b = -1$

70819149082. $a = -1, b = 1$

Question Number : 8 Question Id : 70819114733 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જો $y = \frac{ax - b}{(x - 1)(x - 4)}$ ને બિંદુ $(2, -1)$ આગળ આત્યાંતિક મૂલ્ય હોય, તો a અને b ના મૂલ્યો _____ છે.

Options :

70819149079. $a = 1, b = 0$

70819149080. $a = 0, b = 1$

70819149081. $a = 0, b = -1$

70819149082. $a = -1, b = 1$

Question Number : 9 Question Id : 70819114734 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 :

70819149083. $\frac{9}{13}$

70819149084. $\frac{15}{4}$

70819149085. $\frac{13}{9}$

70819149086. $\frac{1}{13}$

Question Number : 9 Question Id : 70819114734 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

સમતલો $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$ અને $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$ વચ્ચેનું અંતર _____ છે.

Options :

70819149083. $\frac{9}{13}$

70819149084. $\frac{15}{4}$

70819149085. $\frac{13}{9}$

70819149086. $\frac{1}{13}$

Question Number : 10 Question Id : 70819114735 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 :

70819149087. $\frac{7}{20}$

70819149088. $\frac{1}{20}$

70819149089. $\frac{19}{20}$

70819149090. $\frac{12}{20}$

Question Number : 10 Question Id : 70819114735 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

બે વિદ્યાર્થીઓ X અને Y દ્વારા ગણિતનો એક પ્રશ્ન ઉકેલી શકાય તેની સંભાવના અનુક્રમે $\frac{1}{4}$ અને $\frac{1}{5}$ છે. જો તેમનાં બંને આ પ્રશ્ન ઉકેલવાનો સ્વતંત્ર રીતે પ્રયત્ન કરે, તો બંને માંથી બરાબર અંક બે દ્વારા આ પ્રશ્ન ઉકેલી શકાય તેની સંભાવના _____ છે.

Options :

70819149087. $\frac{7}{20}$

70819149088. $\frac{1}{20}$

70819149089. $\frac{19}{20}$

70819149090. $\frac{12}{20}$

Question Number : 11 Question Id : 70819114736 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 :

70819149091. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819149092. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819149093. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819149094. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 11 Question Id : 70819114736 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

સંકર સંખ્યા $\frac{1+i}{1-i}$ નું ધ્રુવીય સ્વરૂપ _____ છે.

Options :

70819149091. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819149092. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819149093. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819149094. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 12 Question Id : 70819114737 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 :

70819149095. ²

70819149096. ³

70819149097. ⁴

70819149098. ¹

Question Number : 12 Question Id : 70819114737 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જો બિંદુઓ (1, 0) અને (3, 0) ને જોડતા રેખાખંડનું 2 : 1 નાં ગુણોત્તરમાં વિભાજન કરતી અને તેને લંબ હોય તેવી રેખાનું સમીકરણ $ax=7$ હોય, તો a નું મૂલ્ય _____ છે.

Options :

70819149095. ²

70819149096. ³

70819149097. ⁴

70819149098. ¹

Question Number : 13 Question Id : 70819114738 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 :

70819149099. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819149100. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819149101. $2(x^2 + y^2) - x + y + 1 = 0$

70819149102. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 13 Question Id : 70819114738 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

વર્તુળ $x^2 + y^2 - 2x = 0$ ની રેખા $x + y = 2$ ને સાપેક્ષ આરસી પ્રતિબિંબ દ્વારા મળતા વર્તુળનું સમીકરણ _____ છે.

Options :

70819149099. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819149100. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819149101. $2(x^2 + y^2) - x + y + 1 = 0$

70819149102. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 14 Question Id : 70819114739 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 :

70819149103. $y+3=0$ and $x-1=0$

70819149104. $x-3=0$ and $y+1=0$

70819149105. $x+3=0$ and $x-1=0$

70819149106. $y+3=0$ and $y-1=0$

Question Number : 14 Question Id : 70819114739 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ઉપવલય $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$ અને વર્તુળ $(x+1)^2 + (y-1)^2 = 4$ નાં સામાન્ય સ્પર્શકોના સમીકરણ _____ છે.

Options :

70819149103. $y+3=0$ અને $x-1=0$

70819149104. $x-3=0$ અને $y+1=0$

70819149105. $x+3=0$ અને $x-1=0$

70819149106. $y+3=0$ અને $y-1=0$

Question Number : 15 Question Id : 70819114740 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 :

70819149107. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819149108. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819149109. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819149110. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

**Question Number : 15 Question Id : 70819114740 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

જો $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$ હોય, તો A^k ($k \in \mathbb{N}$) _____.

Options :

70819149107. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819149108. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819149109. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819149110. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819114741 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 :

70819149111. $s = 5, t = 13$

70819149112. $s \neq 5$

70819149113. $s = 5, t \neq 13$

70819149114. $t \neq 13$

Question Number : 16 Question Id : 70819114741 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

સમીકરણ સંહિત $x_1 + x_2 + x_3 = 5$

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

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

ને ઉકેલ ન હોય તેવા s અને t નાં મૂલ્યો _____ છે.

Options :

70819149111. $s = 5, t = 13$

70819149112. $s \neq 5$

70819149113. $s=5, t \neq 13$

70819149114. $t \neq 13$

Question Number : 17 Question Id : 70819114742 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 :

70819149115. 1

70819149116. -1

70819149117. 0

70819149118. 2

Question Number : 17 Question Id : 70819114742 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ ને $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ ને સાપેક્ષ $(1, \infty)$ માં વિકલિત _____ છે.

Options :

70819149115. 1

70819149116. ⁻¹

70819149117. ⁰

70819149118. ²

Question Number : 18 Question Id : 70819114743 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 :

70819149119. $\frac{\pi}{6}$

70819149120. $\frac{\pi}{4}$

70819149121. $\frac{\pi}{3}$

70819149122. $\frac{5\pi}{12}$

Question Number : 18 Question Id : 70819114743 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ધારો કે $\vec{a}$, $\vec{b}$ અને $\vec{c}$ એ ત્રણ એવા સદિશો છે, કે જેથી $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$. જો $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$ હોય તો,

$\vec{a}$ અને $\vec{c}$ વચ્ચેનો સમકોણ _____ છે.

Options :

70819149119. $\frac{\pi}{6}$

70819149120. $\frac{\pi}{4}$

70819149121. $\frac{\pi}{3}$

70819149122. $\frac{5\pi}{12}$

Question Number : 19 Question Id : 70819114744 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 :

70819149123. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819149124. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819149125. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819149126. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 19 Question Id : 70819114744 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

વિકલ સમીકરણ $(1+y^2)dx = (\tan^{-1}y - x)dy$ નો ઉકેલ _____ છે.
(જ્યાં c સ્વૈર અચળાંક છે)

Options :

70819149123. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819149124. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819149125. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819149126. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819114745 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 :

70819149127. $[-5, -4] \cup [4, 5]$

70819149128. $[-5, 4) \cup (-4, 5]$

70819149129. $(-5, -4) \cup (4, 5)$

70819149130. $(-5, 4) \cup (-4, 5)$

Question Number : 20 Question Id : 70819114745 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

સદિશ $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$ એ યામાક્ષોની (ધન દિશા) સાથે લઘુકોણ બનાવે તેવી x ની કિંમતો _____ માં આવેલ છે.

Options :

70819149127. $[-5, -4] \cup [4, 5]$

70819149128. $[-5, 4) \cup (-4, 5]$

70819149129. $(-5, -4) \cup (4, 5)$

70819149130. $(-5, 4) \cup (-4, 5)$

Mathematics Section B

Section Id : 708191531

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 : 708191811

Question Shuffling Allowed : Yes

Question Number : 21 Question Id : 70819114746 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 : 70819114746 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 : 70819114747 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The minimum value of $9\tan^2\theta + 4\cot^2\theta$ 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 : 22 **Question Id :** 70819114747 **Question Type :** SA

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

$9\tan^2\theta + 4\cot^2\theta$ નું ન્યૂનતમ મૂલ્ય _____ છે.

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 :** 70819114748 **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 :** 70819114748 **Question Type :** SA

Correct Marks : 4 Wrong Marks : 0

બિંદુ (1, 2, 3) થી રેખા $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ ના લંબની લંબાઈ _____ છે.

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 : 70819114749 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 : 70819114749 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

જે $\log_3 2, \log_3 (2^x - 5)$ અને $\log_3 \left(2^x - \frac{7}{2}\right)$ સમાંતર શ્રેણીમાં હોય, તો x નું મૂલ્ય _____ છે.

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 : 70819114750 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 : 70819114750 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ఇ $x^2 + x + 1 = 0$ ఉ $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\} =$ _____.

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 : 70819114751 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 : 70819114751 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

વર્તુળ $x^2 + y^2 - 4x - 2y - 11 = 0$ ને બિંદુ (4, 5) માંથી દોરેલ સ્પર્શકો, ત્રિજ્યાઓની જોડ સાથે એક ચતુષ્કોણ બનાવે છે. આ ચતુષ્કોણનું ક્ષેત્રફળ ચો. એકમમાં _____ છે.

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 : 70819114752 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 :** 70819114752 **Question Type :** SA

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

જો એક દ્વિપદી વિતરણનાં મધ્યક અને વિચરણનો સરવાળો 15 અને તેમના વર્ગોનો સરવાળો 117 હોય, તો નિરપેક્ષ પ્રયત્નોની સંખ્યા _____ છે.

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 :** 70819114753 **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 : 70819114753 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ધારો કે બિંદુઓ $(1, 2, 6)$, $(2, 5, 7)$ માંથી પસાર થતાં અને સમતલ $4x - y + z = 15$ ને લંબ હોય તેવા સમતલનું સમીકરણ $ax + by + cz + d = 0$ છે. જો $a, b, c, d \in \mathbb{Z}$ અને ગુ.સા.અ. $(|a|, |b|, |c|) = 1$ હોય, તો $|a + b + c + d| = \underline{\hspace{2cm}}$.

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 : 70819114754 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 $4\sin^2 x - 8\sin x + 3 = 0$ 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 : 29 Question Id : 70819114754 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

સમીકરણ $4\sin^2 x - 8\sin x + 3 = 0$ ની, $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ અંતરાલમાં વાસ્તવિક ઉકેલોની સંખ્યા $\underline{\hspace{2cm}}$ છે.

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 : 70819114755 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 : 70819114755 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ધારો કે $A_1, A_2, A_3, \dots$ એ એક વધતી સમગુણોત્તર શ્રેણી છે. જો $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ અને $A_5 A_7 = 441$ હોય, તો $3(A_2 + A_4) =$ _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

Aptitude Test

Section Id :	708191532
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191812
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 70819114756 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 :

70819149141. United Nations Educational, Scientific & Cultural Organization.

70819149142. United Nations Educational Security Cultural Organization.

70819149143. United Nations Entrance Site Calling Organization.

70819149144. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 31 Question Id : 70819114756 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘UNESCO’ નું પૂર્ણ સ્વરૂપ નીચેનામાંથી કયું છે ?

Options :

70819149141. United Nations Educational, Scientific & Cultural Organization.

70819149142. United Nations Educational Security Cultural Organization.

70819149143. United Nations Entrance Site Calling Organization.

70819149144. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 32 Question Id : 70819114757 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 :

70819149145. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819149146. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149147. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819114757 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ચાદી-II ને ચાદી-I સાથે ગોઠવો.

ચાદી - I

ચાદી - II

(I) હોલ ઓફ નેશન

(a)



(II) ફોલિંગ વોટર, પેન્સિલ્વેનીયા

(b)



(III) પેટ્રોનસ ટોવર

(c)



(IV) સેક્રેટરિએટ (Secretariat)

(d)



Options :

70819149145. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819149146. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149147. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819149148. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819114758 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) Kamru	(a) Victoria Memorial Hall
(II) Delhi	(b) Badrinath Temple
(III) Fatehpur Sikri	(c) Khirki Masjid
(IV) Kolkata	(d) Buland Darwaja

Options :

70819149149. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819149150. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819149151. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819149152. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819114758 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1**

ચાદી-II ને ચાદી-I સાથે ગોઠવો.

ચાદી-I	ચાદી-II
(I) કામરૂ (Kamnu)	(a) વિક્ટોરિયા મેમોરિયલ હોલ
(II) દિલ્લી	(b) બદ્રિનાથ મંદિર
(III) ફતેપુર સિક્કી	(c) ખિરકી મસ્જિદ (Khirkhi Masjid)
(IV) કોલકાતા	(d) બુલંદ દરવાજા

Options :

70819149149. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819149150. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819149151. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819149152. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 34 Question Id : 70819114759 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 :

70819149153. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819149154. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819149155. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819149156. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819114759 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

યાદી-II ને યાદી-I સાથે ગોઠવો.

યાદી - I

યાદી - II

(I) આગ્રા કિલ્લો

(a)



(II) અટાલા મસ્જિદ

(b)



(III) નાલંદા વિશ્વવિદ્યાલય

(c)



(IV) જગન્નાથ મંદિર

(d)



Options :

70819149153. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819149154. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819149155. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819149156. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 35 Question Id : 70819114760 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 :

70819149157. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819149158. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149159. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819149160. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 35 Question Id : 70819114760 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ચાદી - II ને ચાદી - I સાથે ગોઠવો.

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

Options :

70819149157. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819149158. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149159. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819149160. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 36 Question Id : 70819114761 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 :

70819149161. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819149162. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819149163. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819149164. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 36 Question Id : 70819114761 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ચાદી - II ને ચાદી - I સાથે ગોઠવો.

ચાદી - I

ચાદી - II

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

નીચેનાં વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

Options :

70819149161. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819149162. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819149163. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819149164. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 37 Question Id : 70819114762 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 :

70819149165. B.V. Doshi

70819149166. Arundhati Roy

70819149167. Revati Kamat

70819149168. Bimal Patel

Question Number : 37 Question Id : 70819114762 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચેનામાંથી કયા ભારતીય વાસ્તુકારે પુસ્તક 'God of small things' લખ્યું છે ?

Options :

70819149165. બી.વી. દોશી

70819149166. અરુંધતી રોય (Arundhati Roy)

70819149167. રેવતી કામત

70819149168. બિમલ પટેલ

Question Number : 38 Question Id : 70819114763 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 :

70819149169. Gujarat

70819149170. West Bengal

70819149171. Tamil Nadu

70819149172. Rajasthan

Question Number : 38 Question Id : 70819114763 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘ઝરોખા’ એ બારીનો એક પ્રકાર છે જે મુખ્યત્વે નીચેનામાં કયાં જોવા મળે છે ?

Options :

70819149169. ગુજરાત

70819149170. પશ્ચિમ બંગાલ

70819149171. તામિલનાડુ

70819149172. રાજસ્થાન

Question Number : 39 Question Id : 70819114764 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 :

70819149173. North-West side

70819149174. South-East side

70819149175. North side

70819149176. South-West side

Question Number : 39 Question Id : 70819114764 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ભારતીય ઉપખંડમાં ચોમાસું પવનો કઈ દિશામાંથી પ્રવેશે છે ?

Options :

70819149173. વાયવ્ય બાજુથી

70819149174. અગ્નિ બાજુથી

70819149175. ઉત્તર તરફથી

70819149176. નૈઋત્ય બાજુથી

Question Number : 40 Question Id : 70819114765 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 :

70819149177. Bharat Bhavan in Bhopal

70819149178. LIC Building in Delhi

70819149179. Charminar in Hyderabad

70819149180. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819114765 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચેનામાંથી ભારતનું કયું મકાન વસાહતી-સ્થાપત્ય-ભાત (Colonial Architectural pattern) ને રજૂ કરે છે.

Options :

70819149177. ભોપાલનું ભારત ભવન

70819149178. દિલ્હીનું LIC મકાન

70819149179. હૈદરાબાદનાં ચાર મિનાર

70819149180. કલકત્તાનું વિક્ટોરીયા મેમોરિયલ

Question Number : 41 Question Id : 70819114766 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 :

70819149181. 420×590 (mm $\times$ mm)

70819149182. 420×594 (mm $\times$ mm)

70819149183. 297×420 (mm $\times$ mm)

70819149184. 420×592 (mm $\times$ mm)

Question Number : 41 Question Id : 70819114766 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A2 ચિત્ર-તકતિ (Drawing sheet) નું કદ કયું હોય છે ?

Options :

70819149181. 420×590 (mm $\times$ mm)

70819149182. 420×594 (mm $\times$ mm)

70819149183. 297×420 (mm $\times$ mm)

70819149184. 420×592 (mm $\times$ mm)

Question Number : 42 Question Id : 70819114767 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 :

70819149185. Chittor fort

70819149186. Jaigarh fort

70819149187. Bhangarh fort

70819149188. Amer fort

Question Number : 42 Question Id : 70819114767 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

વિજય સ્તંભ નીચેનામાંથી કયા ગઢમાં આવેલ છે ?

Options :

70819149185. ચિત્તોડ ગઢ

70819149186. જયગઢ કિલ્લો

70819149187. ભાંગગઢ કિલ્લો

70819149188. અમેર ગઢ

Question Number : 43 Question Id : 70819114768 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 :

70819149189. Sanjay Puri

70819149190. Vikram Lall

70819149191. Ashok Lall

70819149192. C. Sompura

Question Number : 43 Question Id : 70819114768 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

પ્રખ્યાત મંદિર “અક્ષરધામ” નીચેનામાંથી કયા વાસ્તુકારે ડિઝાઈન કર્યું છે ?

Options :

70819149189. સંજય પુરી

70819149190. વિક્રમ લાલ

70819149191. અશોક લાલ

70819149192. સી. સોમપુરા

Question Number : 44 Question Id : 70819114769 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Volume Zero’ Documentary is on which Architect ?

Options :

70819149193. Charles Correa

70819149194. Richard Mier

70819149195. Jasbir Sachdev

70819149196. Ranjit Sabliki

Question Number : 44 Question Id : 70819114769 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Volume Zero’ દસ્તાવેજ કયા વાસ્તુકાર પર છે ?

Options :

70819149193. ચાર્લ્સ કોરીયા

70819149194. રીચાર્ડ મેર (Richard Mier)

70819149195. જસબીર સચદેવ

70819149196. રણજીત સબલીકી (Ranjit Sabliki)

Question Number : 45 Question Id : 70819114770 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Agenda 21’ is declaration related with :

Options :

70819149197. Climate change

70819149198. Global warming

70819149199. Sustainable development

70819149200. Smart city

Question Number : 45 Question Id : 70819114770 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘એજંડા 21’ એ શાને સંબંધીત ઘોષણા છે ?

Options :

70819149197. હવામાન બદલાવ

70819149198. વૈશ્વિક વધતા તાપમાનની ઘટના

70819149199. સર્વગ્રાહી વિકાસ

70819149200. સ્માર્ટ શહેર

Question Number : 46 Question Id : 70819114771 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 :

70819149201. Karnataka

70819149202. Orissa

70819149203. Maharashtra

70819149204. Uttar Pradesh

Question Number : 46 Question Id : 70819114771 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ભારતનાં કયા રાજ્યમાં સોનાંની ખાણ આવેલી છે ?

Options :

70819149201. કર્ણાટક

70819149202. ઓરિસ્સા

70819149203. મહારાષ્ટ્ર

70819149204. ઉત્તરપ્રદેશ

Question Number : 47 Question Id : 70819114772 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 :

70819149205. North

70819149206. South

70819149207. East

70819149208. West

Question Number : 47 Question Id : 70819114772 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

દક્ષિણ ગોલાર્ધમાં પડછાયારહિત પ્રકાશ કઈ દિશામાંથી આવે ?

Options :

70819149205. ઉત્તર

70819149206. દક્ષિણ

70819149207. પૂર્વ

70819149208. પશ્ચિમ

Question Number : 48 Question Id : 70819114773 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 :

70819149209. B.V. Doshi
70819149210. Laurie Baker
70819149211. Raj Rewal
70819149212. Achyut Kanvinde

Question Number : 48 Question Id : 70819114773 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

2018 માં પ્રિટઝ્કર પુરસ્કાર મેળવનાર પ્રથમ ભારતીય વાસ્તુકાર કોણ હતાં ?

Options :

70819149209. બી.વી. દોશી
70819149210. લોરી બેકર
70819149211. રાજ રેવાલ
70819149212. અચ્યુત કરવીન્દે

Question Number : 49 Question Id : 70819114774 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Word “Bungalow” has originated from :

Options :

70819149213. Bengalurm

70819149214. Banaras

70819149215. Bengal

70819149216. Bari

Question Number : 49 Question Id : 70819114774 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

“Bungalow” શબ્દ નીચેનામાંથી કોની ઉપરથી ઉદ્ભવ્યો છે ?

Options :

70819149213. Bengalurm

70819149214. Banaras

70819149215. Bengal

70819149216. Bari

Question Number : 50 Question Id : 70819114775 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 :

70819149217. Laurie Baker

70819149218. Louis Kahn

70819149219. Lutyen

70819149220. Le Corbusier

Question Number : 50 Question Id : 70819114775 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

IIM -અમદાવાદની ડિઝાઈન નીચેનામાંથી કયા વાસ્તુકારે કરેલ છે ?

Options :

70819149217. લોરી બેકર

70819149218. લૂઈ કાહ્ન

70819149219. લ્યુટીયન

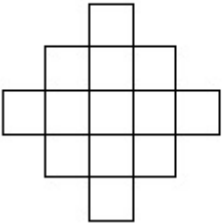
70819149220. લી કોર્બુસીયર

Question Number : 51 Question Id : 70819114776 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 :

70819149221. 14

70819149222. 13

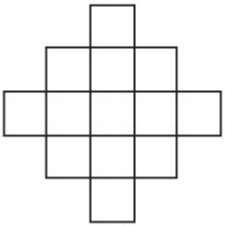
70819149223. 15

70819149224. 18

Question Number : 51 Question Id : 70819114776 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

આપેલ આકૃતિમાં કેટલા ચોરસ આવેલા છે ?



Options :

70819149221. 14

70819149222. 13

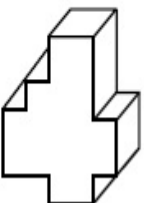
70819149223. 15

70819149224. 18

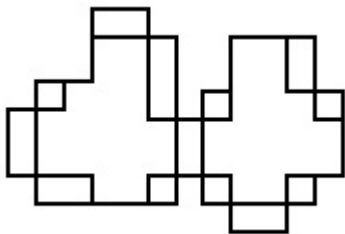
Question Number : 52 Question Id : 70819114777 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

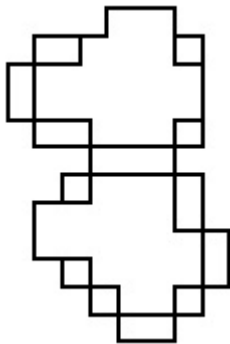
A drawing is provided with all the folds to construct the following three Dimensional object.
Select the correct one.



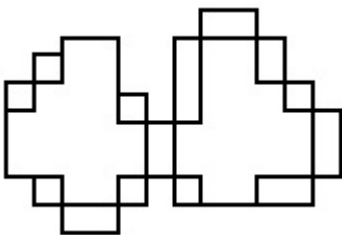
Options :



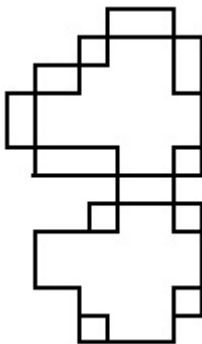
70819149225.



70819149226.



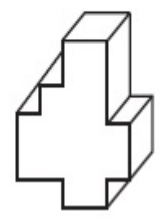
70819149227.



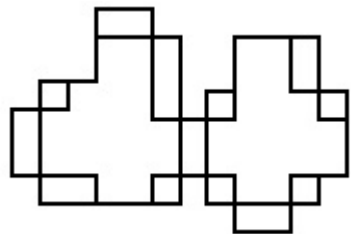
70819149228.

Question Number : 52 Question Id : 70819114777 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

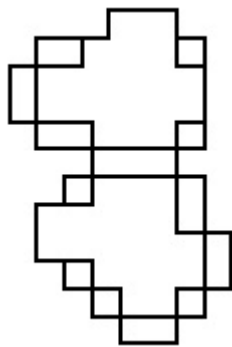
જવાબ આકૃતિમાંથી એ સાચી આકૃતિ શોધો જેની બધી ગડીઓને વાળીને આપેલ ત્રિ-પરિમાણી પદાર્થનું નિર્માણ કરી શકાય.



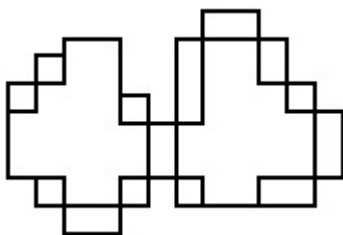
Options :



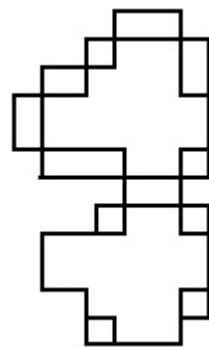
70819149225.



70819149226.



70819149227.

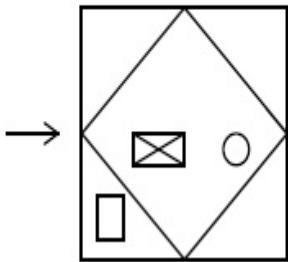


70819149228.

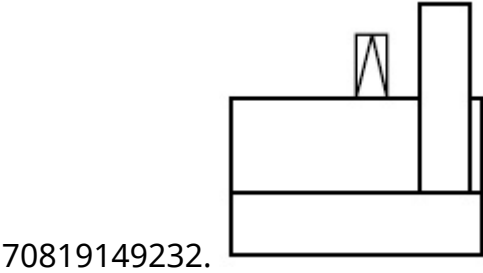
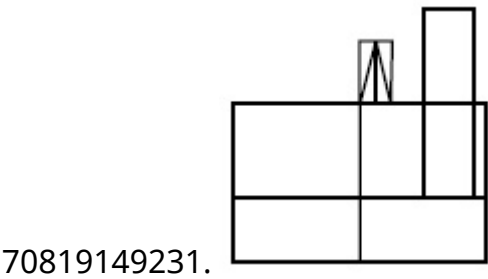
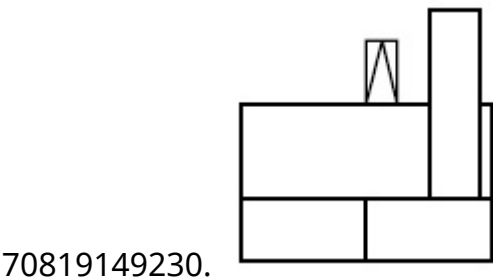
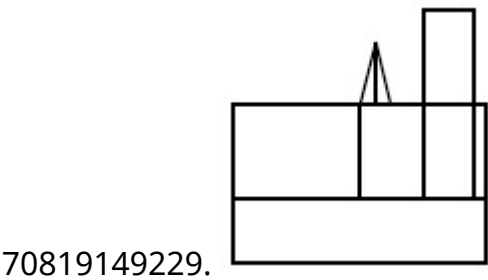
Is Question Mandatory : No

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.



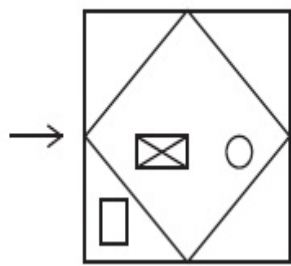
Options :



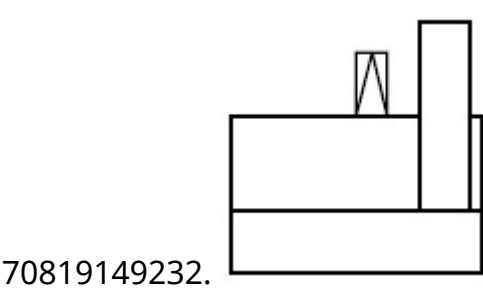
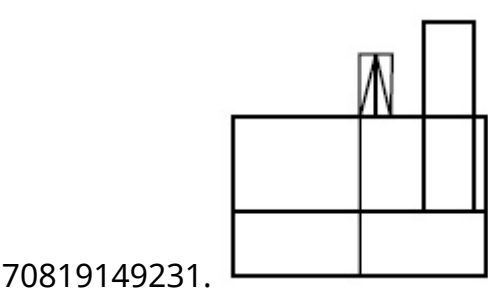
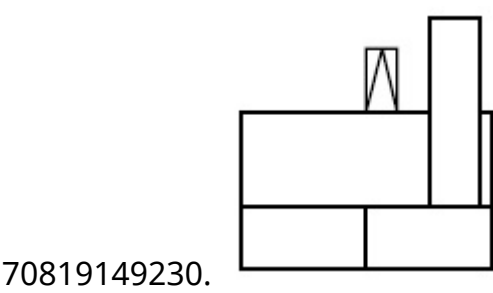
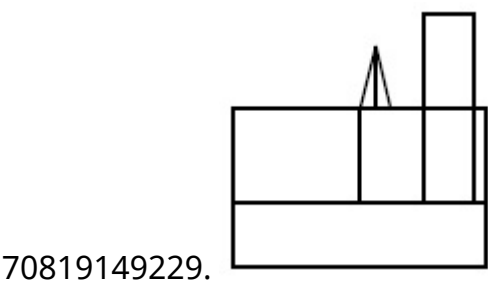
Question Number : 53 Question Id : 70819114778 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

પ્રશ્ન આકૃતિ એક પદાર્થનું ઉપરી દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

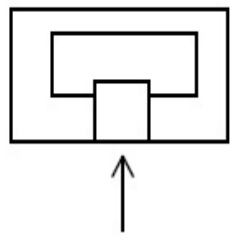


Question Number : 54 Question Id : 70819114779 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

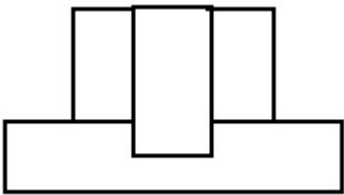
Correct Marks : 4 Wrong Marks : 1

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

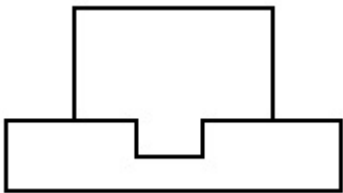


Options :

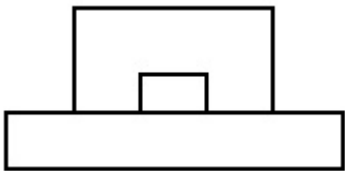
70819149233.



70819149234.



70819149235.



70819149236.

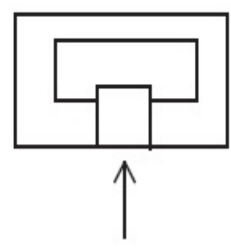


Question Number : 54 Question Id : 70819114779 Question Type : MCQ Option Shuffling : Yes

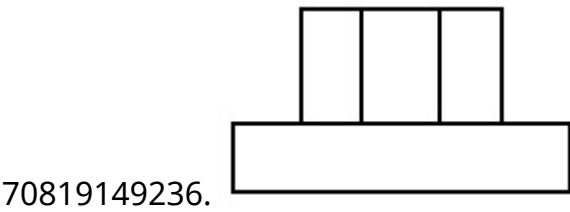
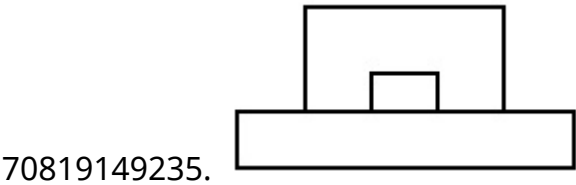
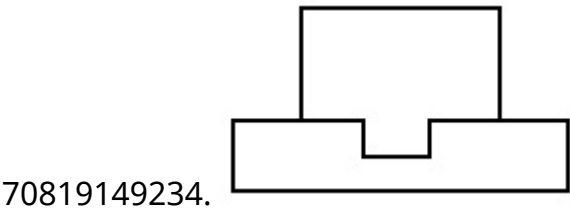
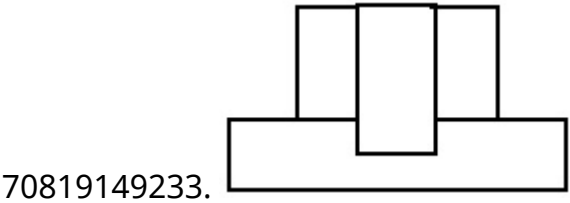
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

પ્રશ્ન આકૃતિ એક પદાર્થનું ઉપરી દૃશ્ય બતાવે છે. તીરની દિશામાં બેતાં મળતું સાચું ઉન્નત દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

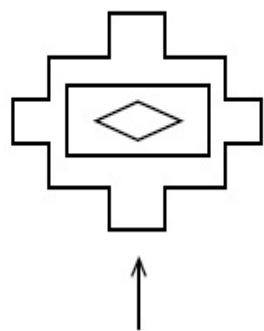


Options :

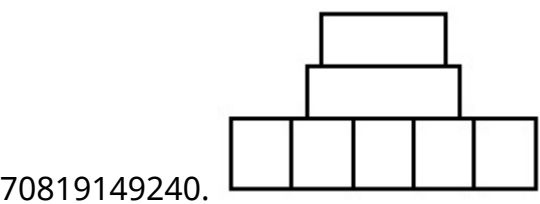
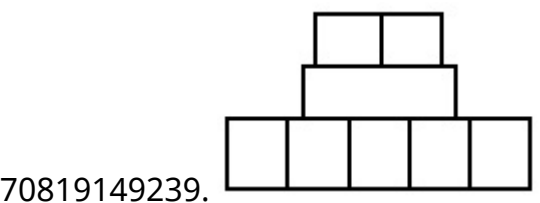
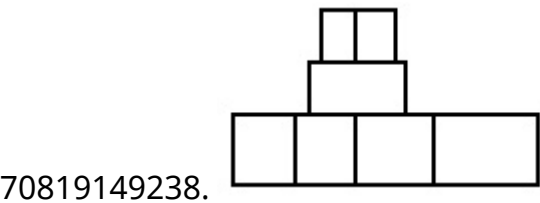
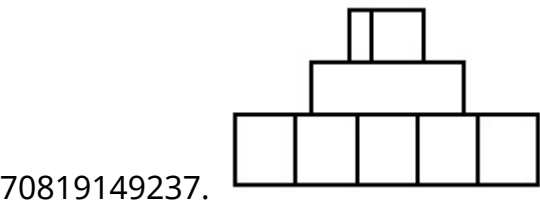


Question Number : 55 Question Id : 70819114780 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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

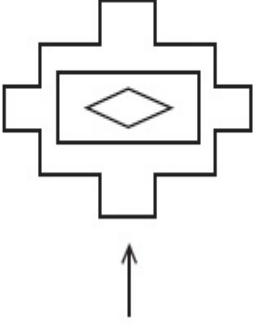


Options :

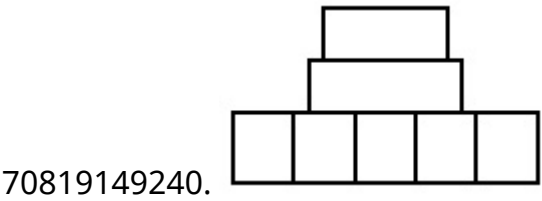
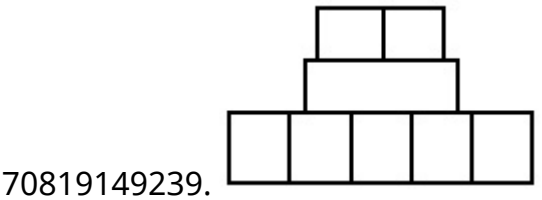
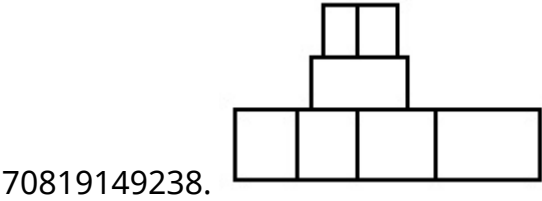
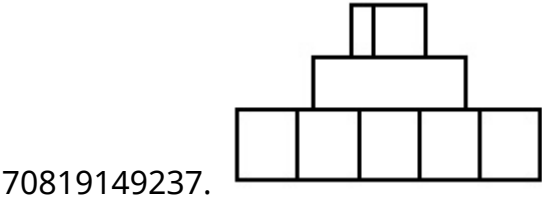


Question Number : 55 Question Id : 70819114780 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

પ્રશ્ન આકૃતિ એક વસ્તુનું ઉપરી દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું ઉન્નત દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

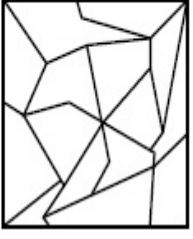


Question Number : 56 Question Id : 70819114781 Question Type : MCQ Option Shuffling : Yes

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 :

70819149241.

70819149242.

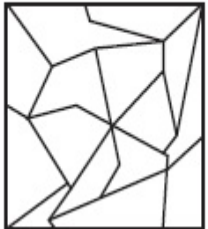
70819149243.

70819149244.

Question Number : 56 Question Id : 70819114781 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંથી એક આકૃતિ એજ કદ અને દિશા સાથે પ્રશ્ન આકૃતિમાં છૂપાયેલી છે. સાચો જવાબ શોધો.



Options :

70819149241.

70819149242.



70819149243.



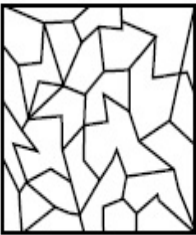
70819149244.



Question Number : 57 Question Id : 70819114782 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 :

70819149245.



70819149246.



70819149247.



70819149248.

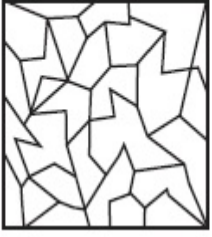


Question Number : 57 Question Id : 70819114782 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ એજ કદ અને દિશા સાથે પ્રશ્ન આકૃતિમાં છૂપાયેલી છે. સાચો જવાબ શોધો.



Options :

70819149245.



70819149246.



70819149247.



70819149248.

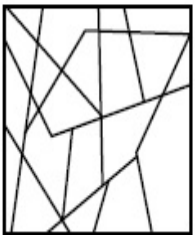


Question Number : 58 Question Id : 70819114783 Question Type : MCQ Option Shuffling : Yes

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 :

70819149249.



70819149250.



70819149251.



70819149252.

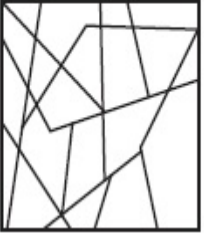


Question Number : 58 Question Id : 70819114783 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ એજ કદ અને દિશા સાથે પ્રશ્ન આકૃતિમાં ધૂપાયેલી છે. સાચો જવાબ શોધો.



Options :

70819149249.



70819149250.



70819149251.



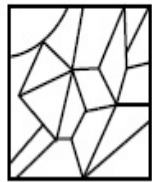
70819149252.



Question Number : 59 Question Id : 70819114784 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 :

70819149253.

70819149254.

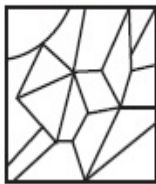
70819149255.

70819149256.

Question Number : 59 Question Id : 70819114784 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ એજ કદ અને દિશા સાથે પ્રશ્ન આકૃતિમાં છૂપાયેલી છે. સાચો જવાબ શોધો.



Options :

70819149253.

70819149254.



70819149255.

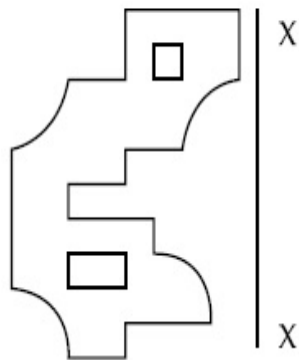


70819149256.

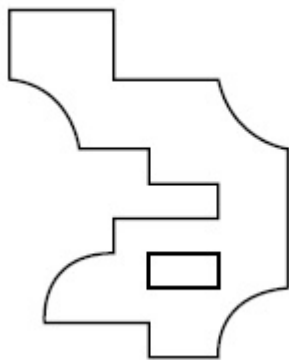


Question Number : 60 Question Id : 70819114785 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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

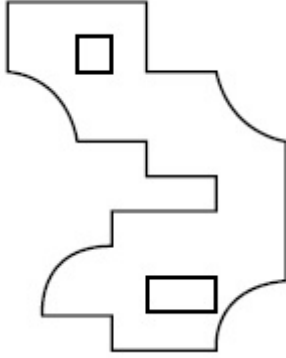
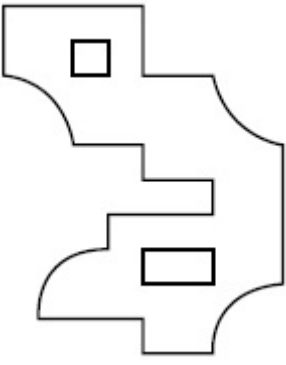


Options :

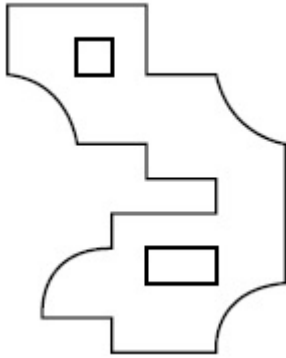


70819149257.

70819149258.



70819149259.

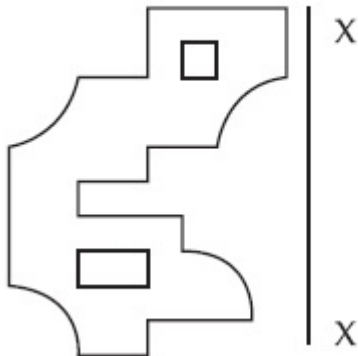


70819149260.

Question Number : 60 Question Id : 70819114785 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

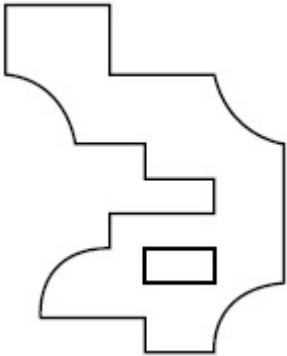
Correct Marks : 4 Wrong Marks : 1

પ્રશ્ન આકૃતિનું X-X ને સાપેક્ષ સાચું આરસી-પ્રતિબિંબ જવાબ આકૃતિઓમાંથી નક્કી કરો.

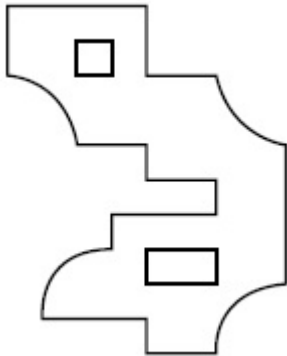


Options :

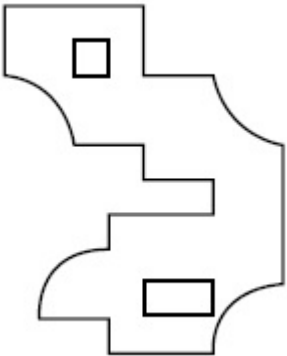
70819149257.



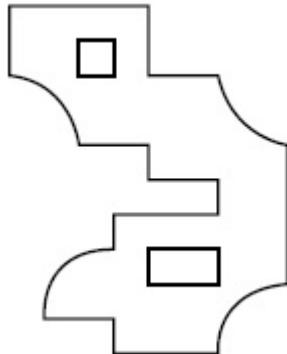
70819149258.



70819149259.

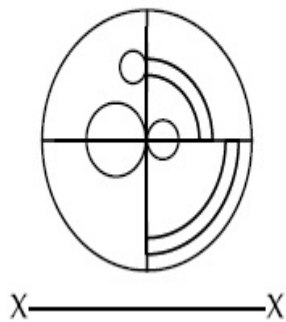


70819149260.

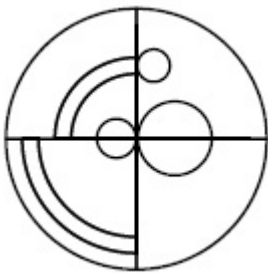


Correct Marks : 4 Wrong Marks : 1

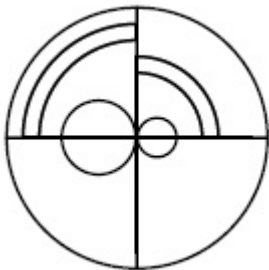
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



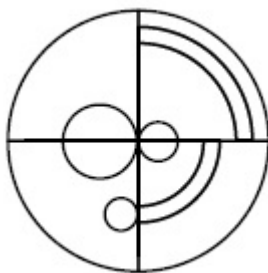
Options :



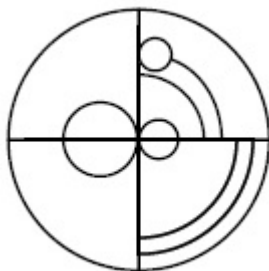
70819149261.



70819149262.



70819149263.

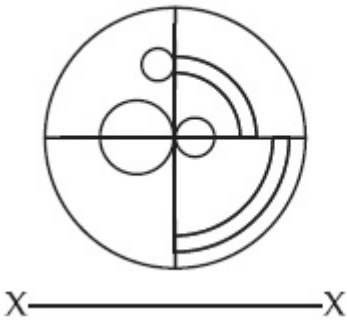


70819149264.

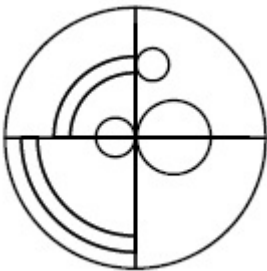
Question Number : 61 Question Id : 70819114786 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

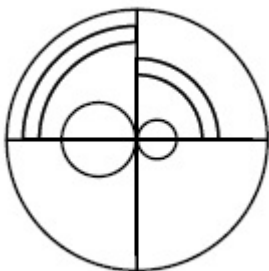
પ્રશ્ન આકૃતિનું X-X ને સાપેક્ષ સાચું આરસી-પ્રતિબિંબ જવાબ આકૃતિઓમાંથી નક્કી કરો.



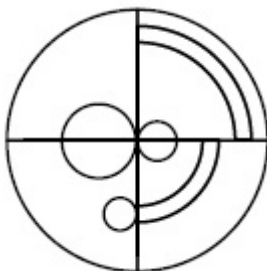
Options :



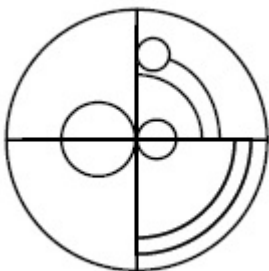
70819149261.



70819149262.



70819149263.

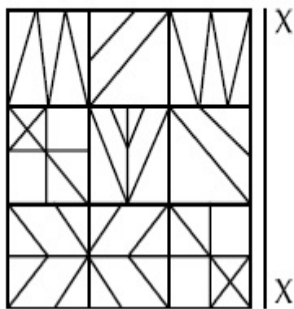


70819149264.

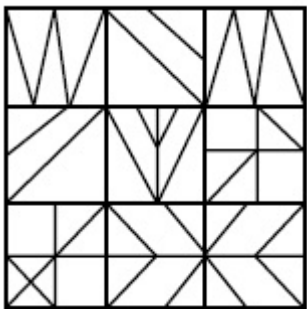
Question Number : 62 Question Id : 70819114787 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

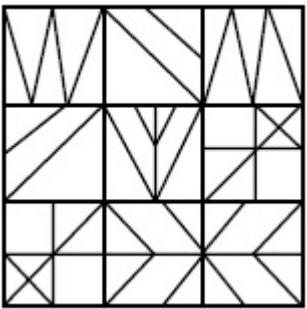
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



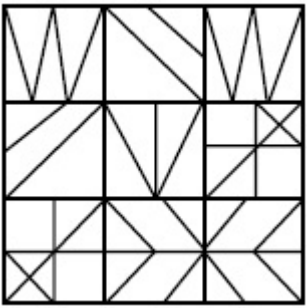
Options :



70819149265.

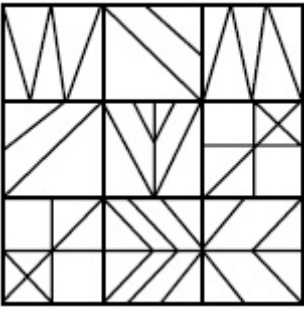


70819149266.



70819149267.

70819149268.

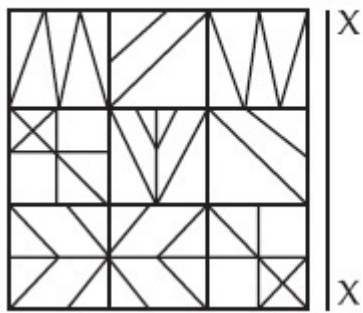


Question Number : 62 Question Id : 70819114787 Question Type : MCQ Option Shuffling : Yes

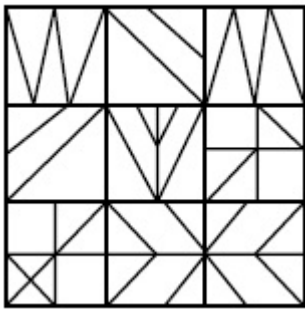
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

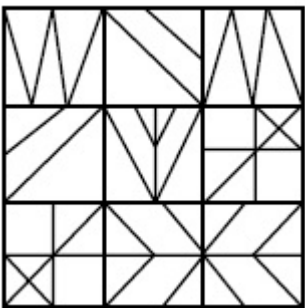
પ્રશ્ન આકૃતિનું X-X ને સાપેક્ષ સાચું આરસી-પ્રતિબિંબ જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

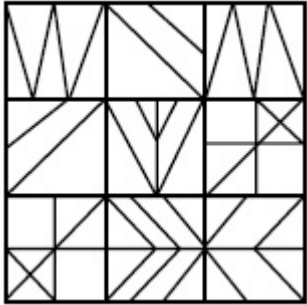
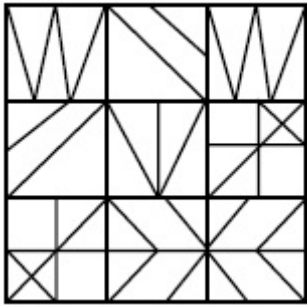


70819149265.



70819149266.

70819149267.

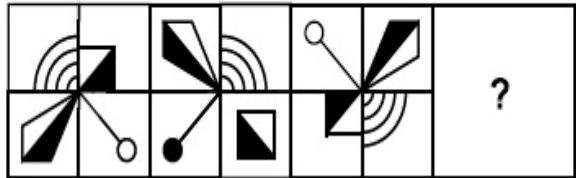


70819149268.

Question Number : 63 Question Id : 70819114788 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 :



70819149269.



70819149270.

70819149271.

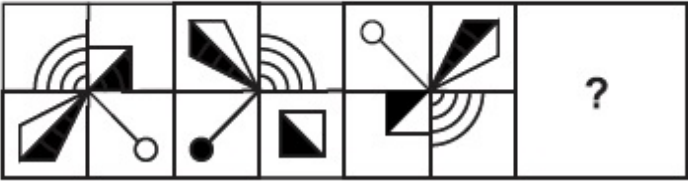


70819149272.

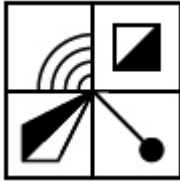
Question Number : 63 Question Id : 70819114788 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિઓની શ્રેણીને પૂર્ણ કરે છે ? એક સાચું પસંદ કરો.



Options :



70819149269.



70819149270.



70819149271.

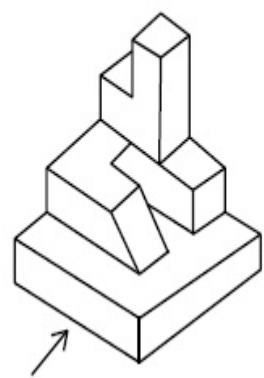
70819149272.



Question Number : 64 Question Id : 70819114789 Question Type : MCQ Option Shuffling : Yes
 Is Question Mandatory : No

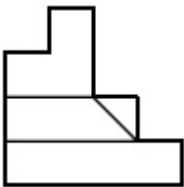
Correct Marks : 4 Wrong Marks : 1

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

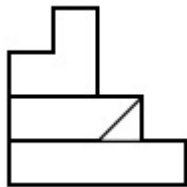


Options :

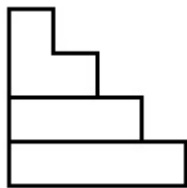
70819149273.



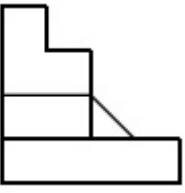
70819149274.



70819149275.



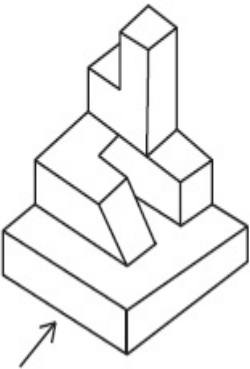
70819149276.



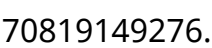
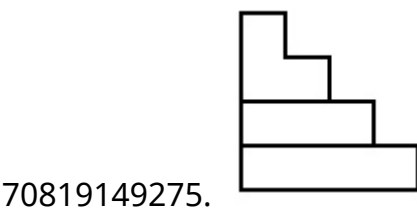
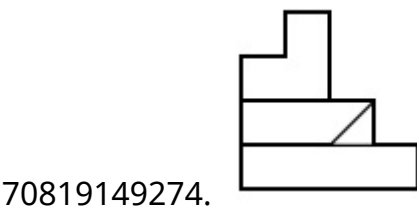
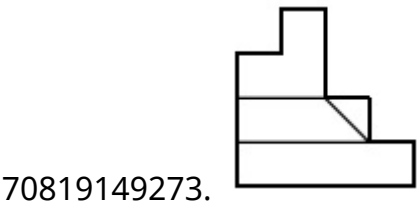
Question Number : 64 Question Id : 70819114789 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

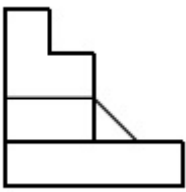
Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. ત્રીરની દિશામાં બેતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

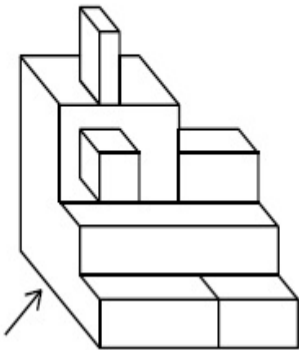




Question Number : 65 Question Id : 70819114790 Question Type : MCQ Option Shuffling : Yes
 Is Question Mandatory : No

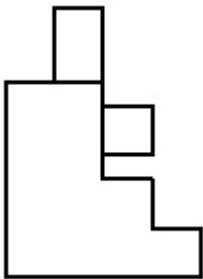
Correct Marks : 4 Wrong Marks : 1

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

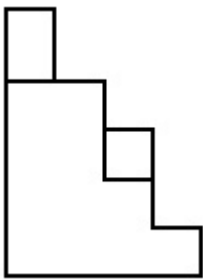


Options :

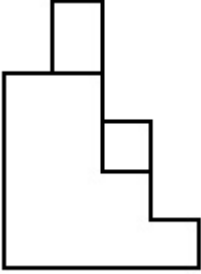
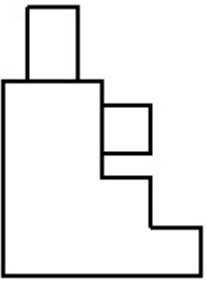
70819149277.



70819149278.



70819149279.



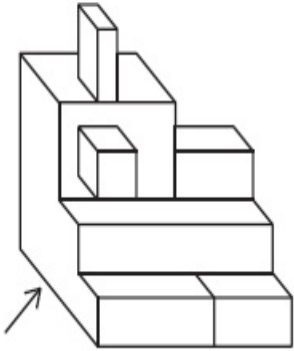
70819149280.

Question Number : 65 Question Id : 70819114790 Question Type : MCQ Option Shuffling : Yes

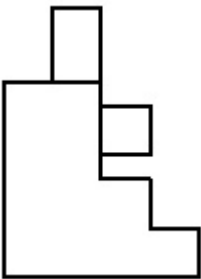
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

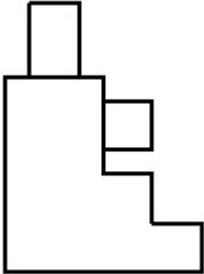
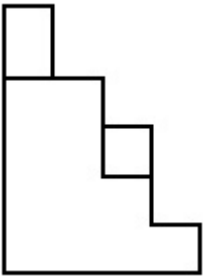


Options :

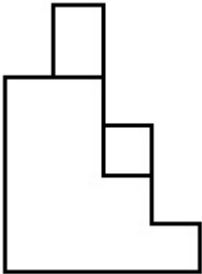


70819149277.

70819149278.



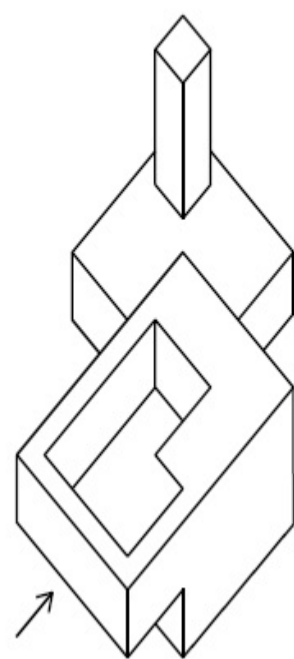
70819149279.



70819149280.

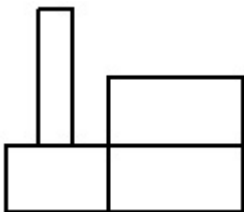
Question Number : 66 Question Id : 70819114791 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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

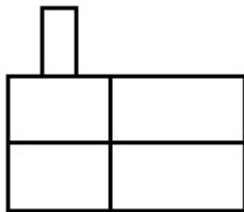


Options :

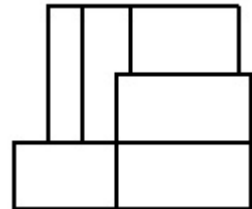
70819149281.



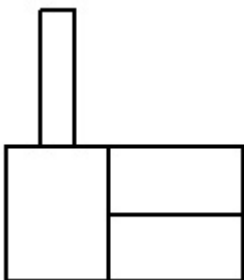
70819149282.



70819149283.



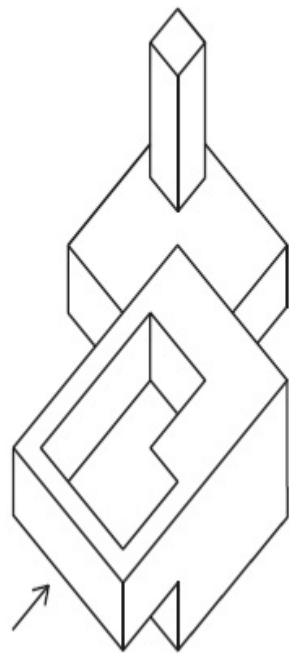
70819149284.



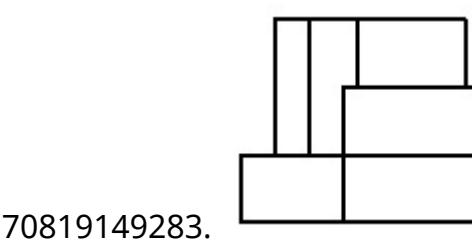
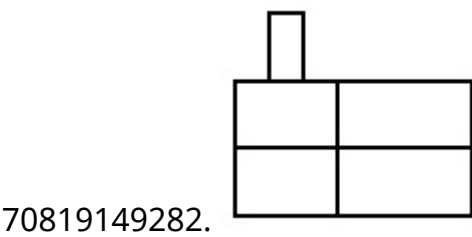
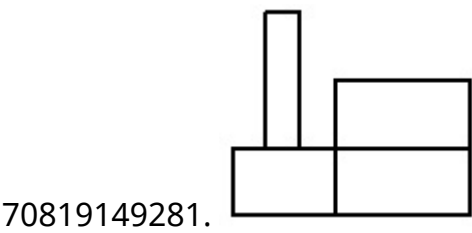
Question Number : 66 Question Id : 70819114791 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

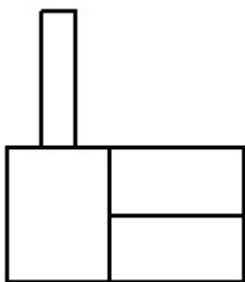
ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :



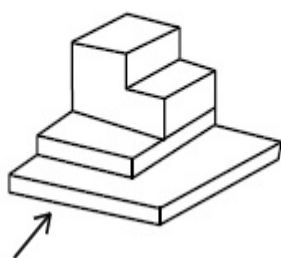
70819149284.



Question Number : 67 Question Id : 70819114792 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

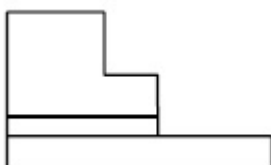
Correct Marks : 4 Wrong Marks : 1

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

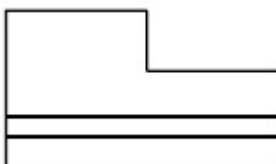


Options :

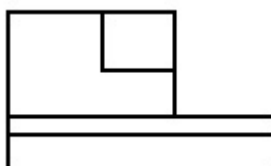
70819149285.



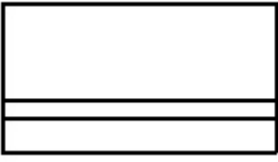
70819149286.



70819149287.



70819149288.

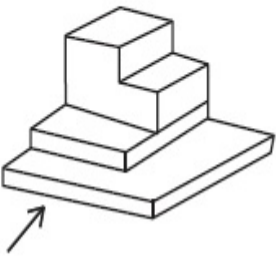


Question Number : 67 Question Id : 70819114792 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

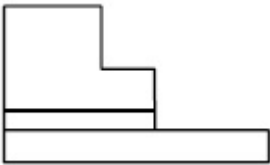
Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

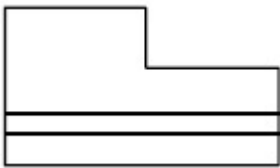


Options :

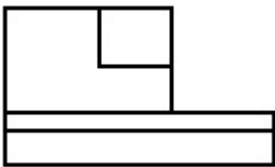
70819149285.



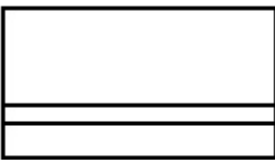
70819149286.



70819149287.



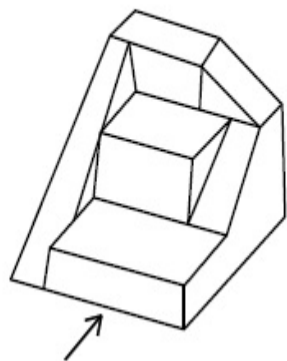
70819149288.



Question Number : 68 Question Id : 70819114793 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

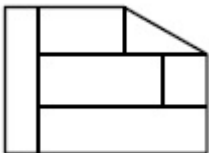
Correct Marks : 4 Wrong Marks : 1

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

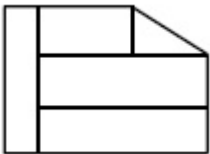


Options :

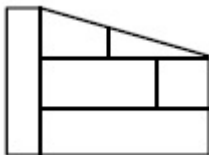
70819149289.



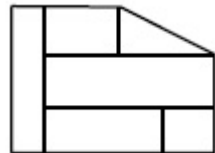
70819149290.



70819149291.



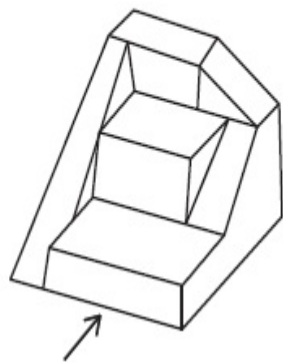
70819149292.



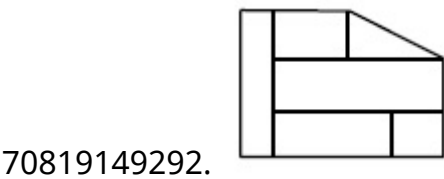
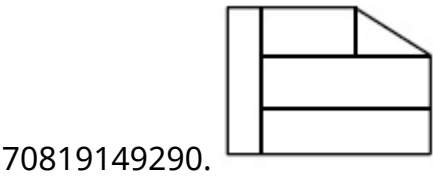
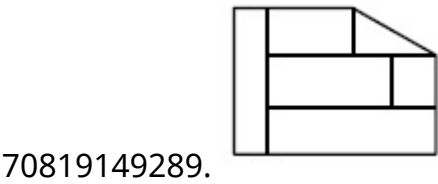
Question Number : 68 Question Id : 70819114793 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

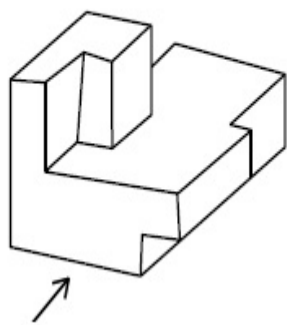


Question Number : 69 Question Id : 70819114794 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

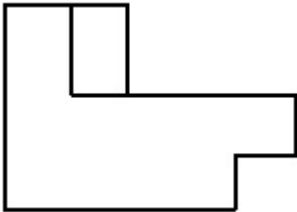
Correct Marks : 4 Wrong Marks : 1

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

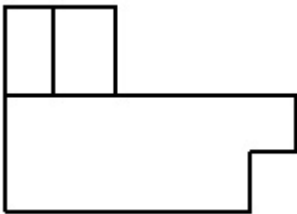


Options :

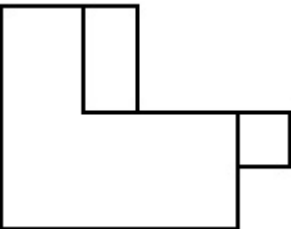
70819149293.



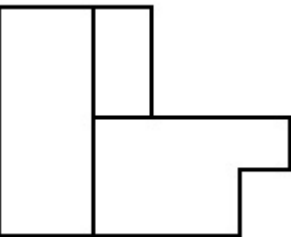
70819149294.



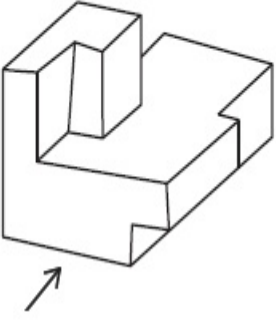
70819149295.



70819149296.

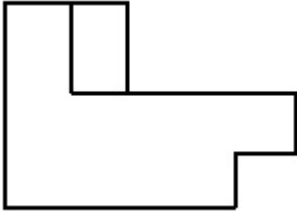


ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

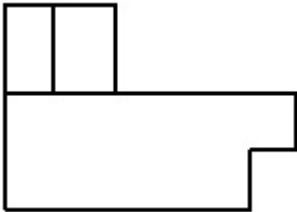


Options :

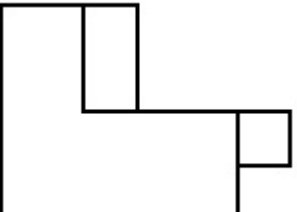
70819149293.



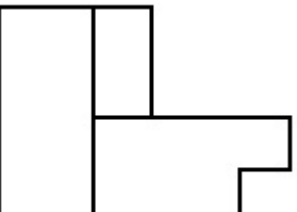
70819149294.



70819149295.

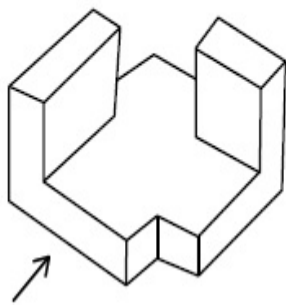


70819149296.

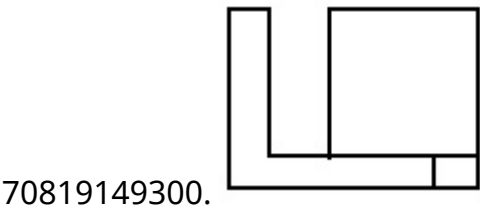
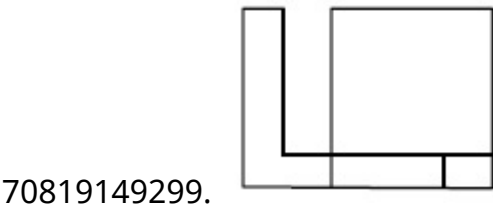
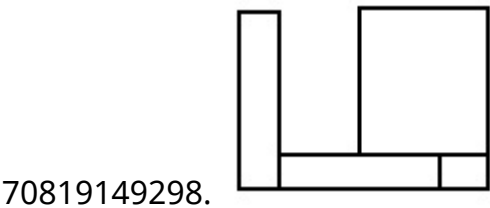
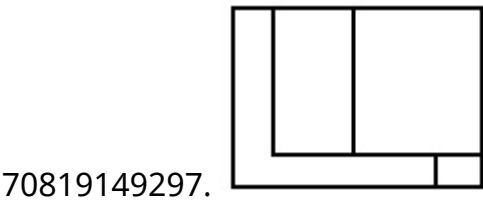


Correct Marks : 4 Wrong Marks : 1

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



Options :

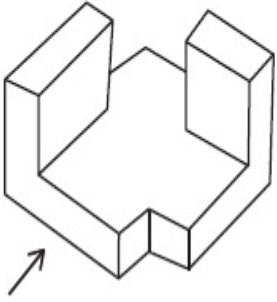


Question Number : 70 Question Id : 70819114795 Question Type : MCQ Option Shuffling : Yes

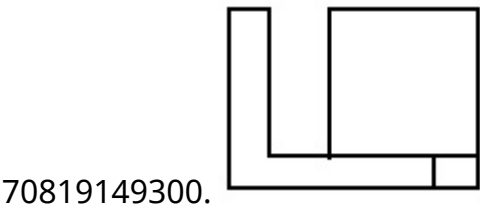
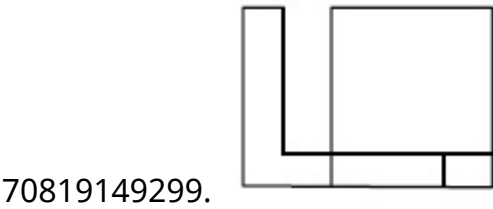
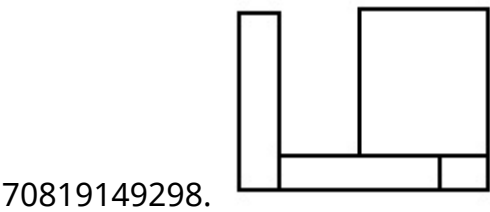
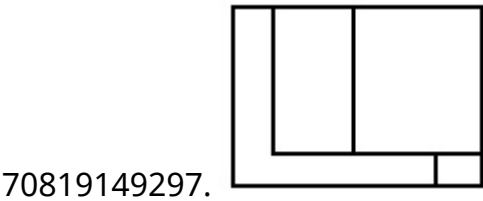
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દર્શ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દર્શ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

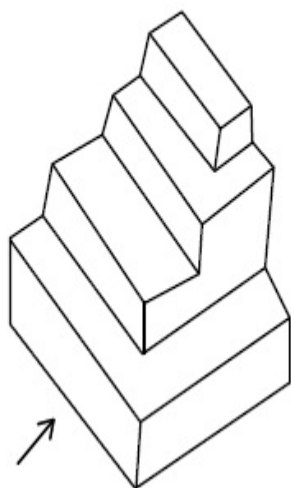


Options :

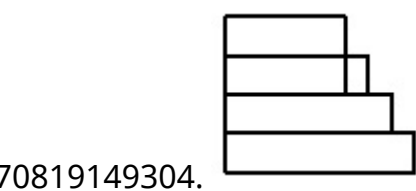
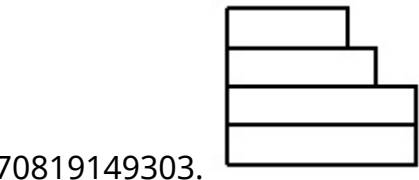
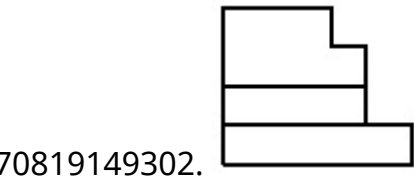
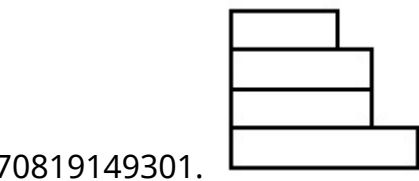


Question Number : 71 Question Id : 70819114796 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

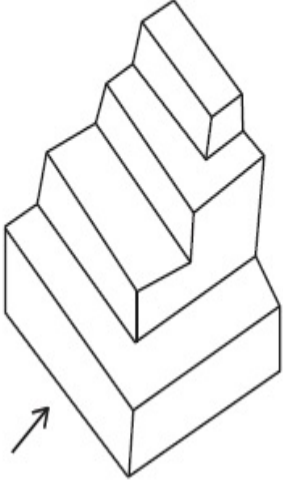
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



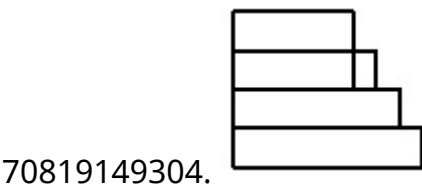
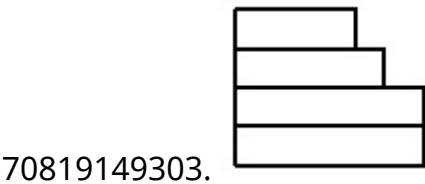
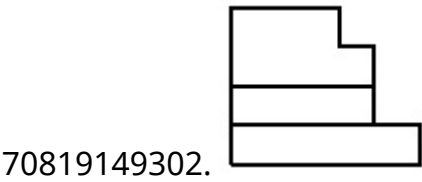
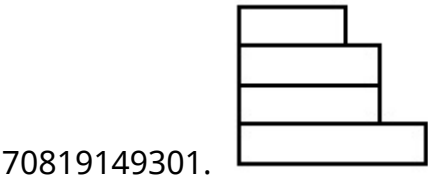
Options :



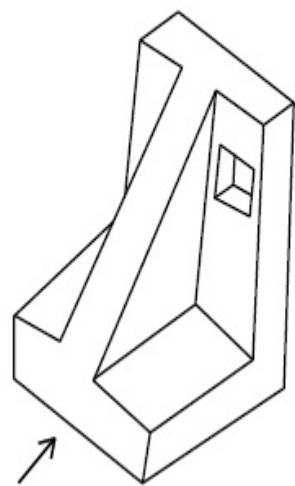
ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દર્શ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દર્શ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

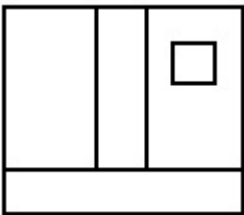


The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

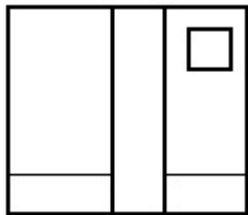


Options :

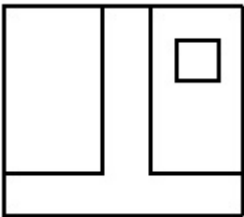
70819149305.



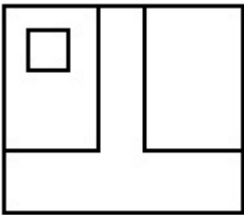
70819149306.



70819149307.



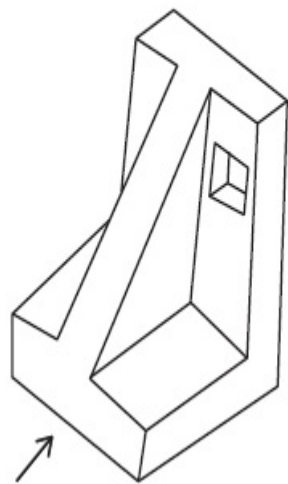
70819149308.



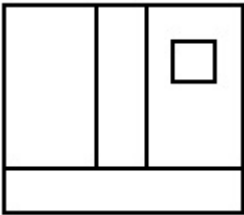
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

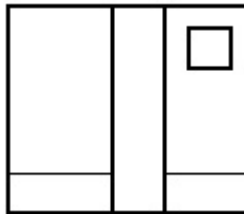
ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



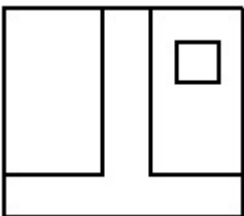
Options :



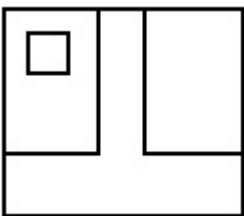
70819149305.



70819149306.



70819149307.

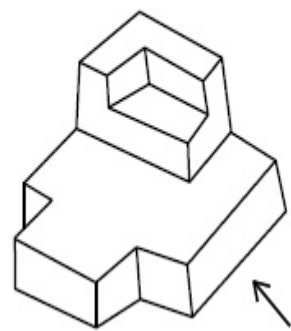


70819149308.

Question Number : 73 Question Id : 70819114798 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

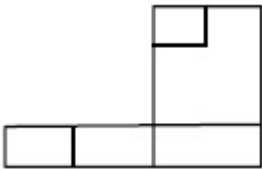
Correct Marks : 4 Wrong Marks : 1

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

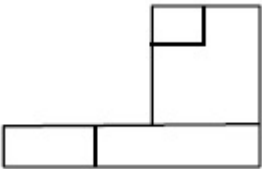


Options :

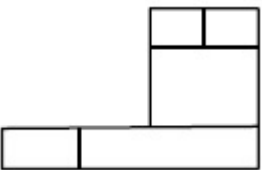
70819149309.



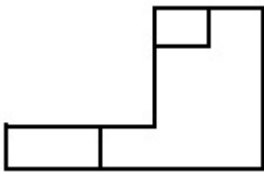
70819149310.



70819149311.



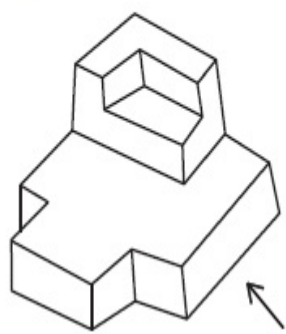
70819149312.



Question Number : 73 Question Id : 70819114798 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

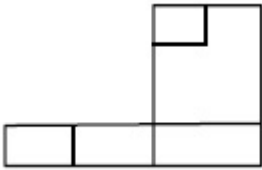
Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

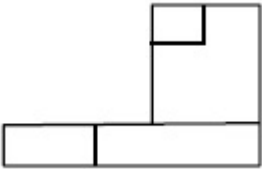


Options :

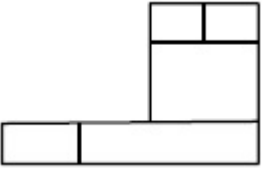
70819149309.



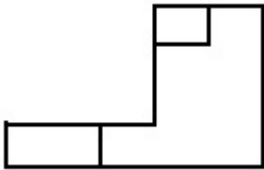
70819149310.



70819149311.



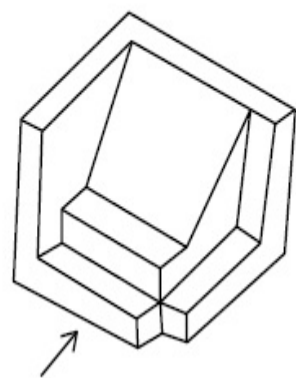
70819149312.



Question Number : 74 Question Id : 70819114799 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

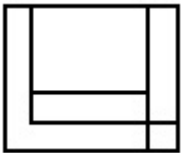
Correct Marks : 4 Wrong Marks : 1

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

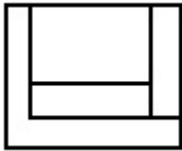


Options :

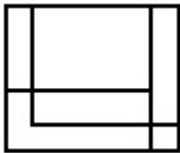
70819149313.



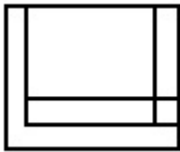
70819149314.



70819149315.

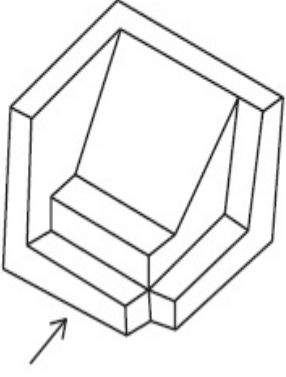


70819149316.



Question Number : 74 Question Id : 70819114799 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

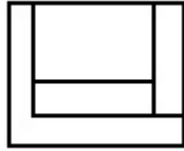


Options :

70819149313.



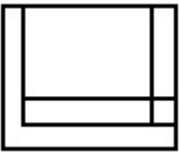
70819149314.



70819149315.

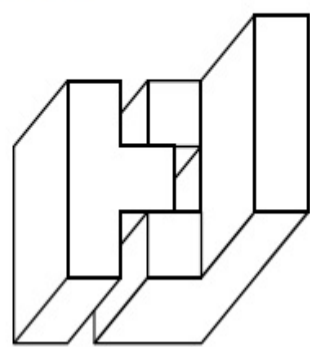


70819149316.



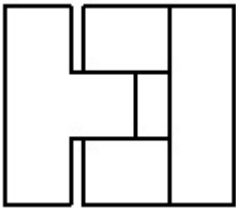
Question Number : 75 Question Id : 70819114800 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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

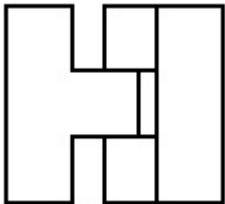


Options :

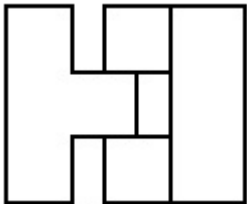
70819149317.



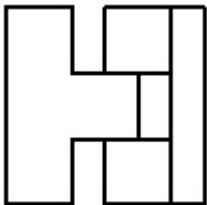
70819149318.



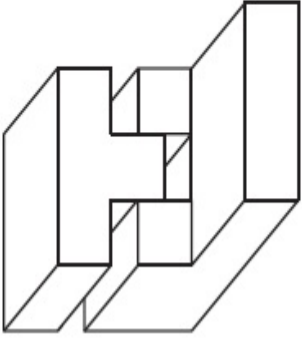
70819149319.



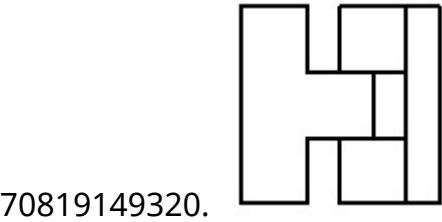
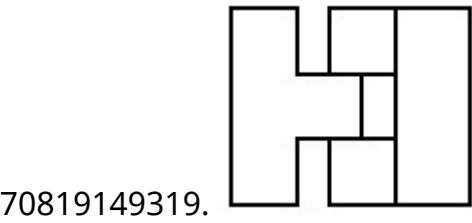
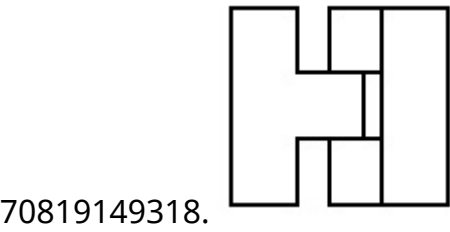
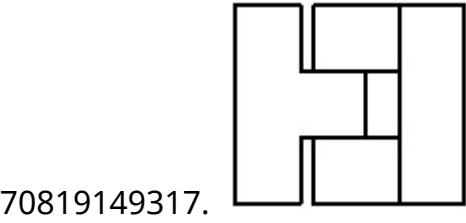
70819149320.



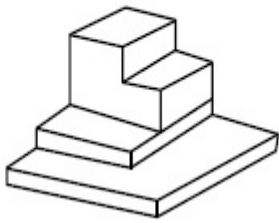
ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું ઉપરી દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



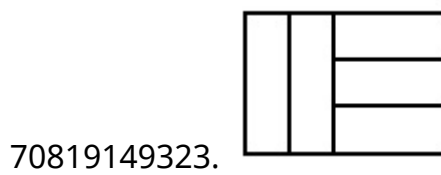
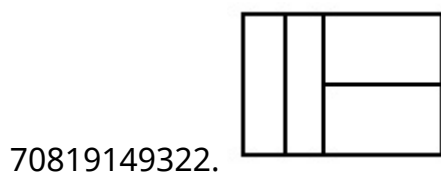
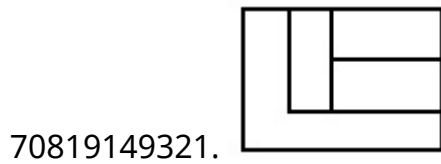
Options :



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



Options :

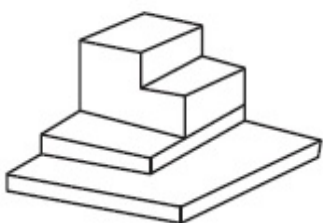


Question Number : 76 Question Id : 70819114801 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

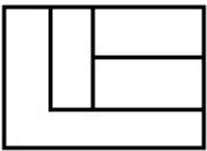
Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. જવાબ-આકૃતિઓમાંથી સાચું ઉપરી દૃશ્ય નક્કી કરો.



Options :

70819149321.



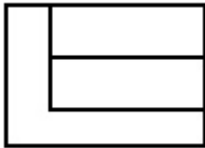
70819149322.



70819149323.



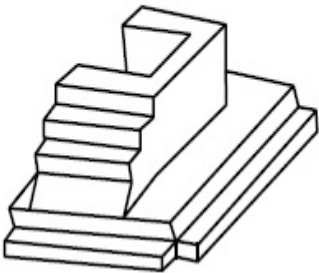
70819149324.



Question Number : 77 Question Id : 70819114802 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

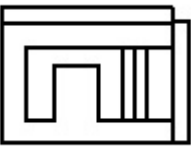
Correct Marks : 4 Wrong Marks : 1

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

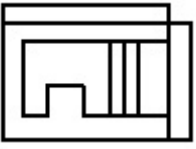


Options :

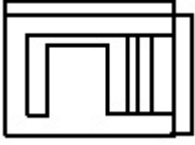
70819149325.



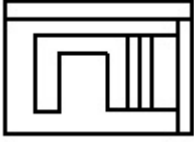
70819149326.



70819149327.



70819149328.

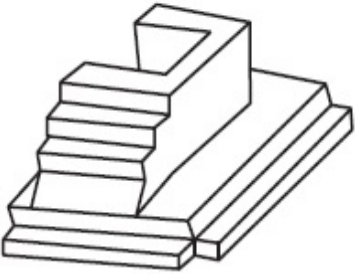


Question Number : 77 Question Id : 70819114802 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

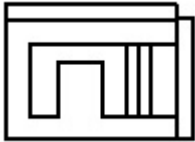
Correct Marks : 4 Wrong Marks : 1

ત્રિ-પરિમાણી આકૃતિ એક પદાર્થનું દર્શક બતાવે છે. જવાબ-આકૃતિઓમાંથી સાચું ઉપરી દર્શક નક્કી કરો.

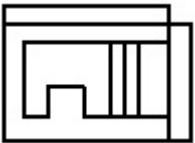


Options :

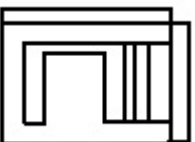
70819149325.



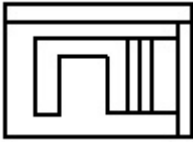
70819149326.



70819149327.



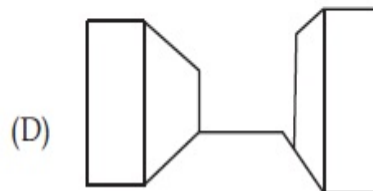
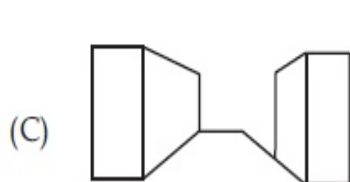
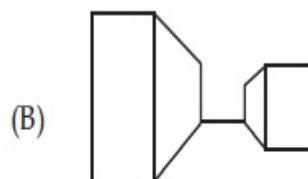
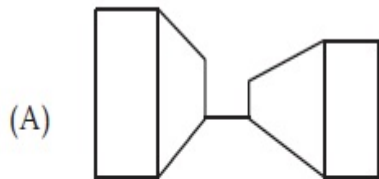
70819149328.



Question Number : 78 Question Id : 70819114803 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.



Options :

70819149329. (A) and (B)

70819149330. (B) and (C)

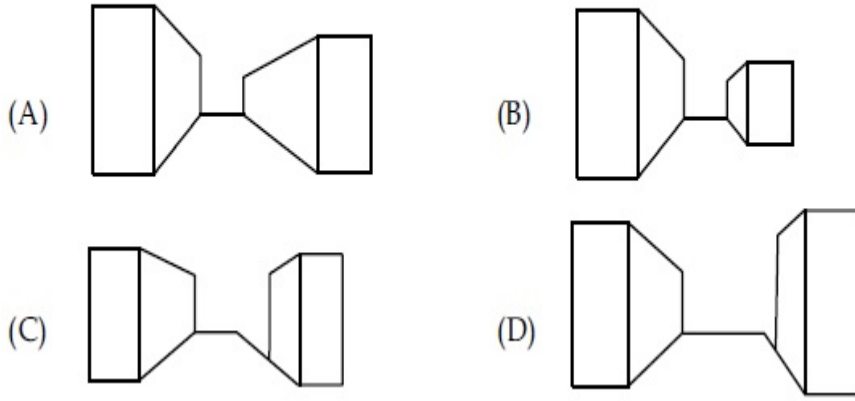
70819149331. (C) and (D)

70819149332. (D) and (A)

Question Number : 78 Question Id : 70819114803 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ઓછો દશ્ય તણાવ (visual tension) હોય તેવા મકાન સંયોજન (building compositions) જવાબ આકૃતિમાંથી નક્કી કરો.



Options :

70819149329. (A) and (B)

70819149330. (B) and (C)

70819149331. (C) and (D)

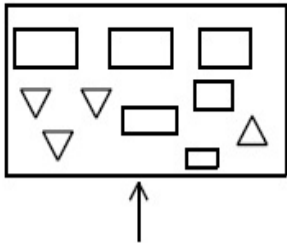
70819149332. (D) and (A)

Question Number : 79 Question Id : 70819114804 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.

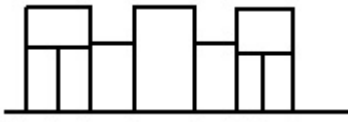


Options :

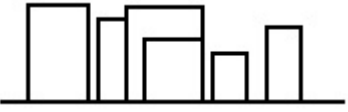


70819149333.

70819149334.



70819149335.



70819149336.

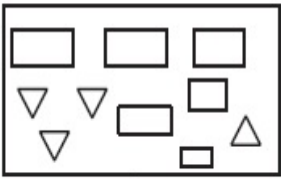


Question Number : 79 Question Id : 70819114804 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

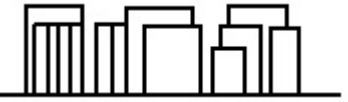
Correct Marks : 4 Wrong Marks : 1

પ્રશ્ન આકૃતિ એક પદાર્થનું ઉપરી દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું ઉન્નત દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

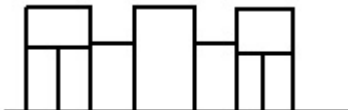


Options :

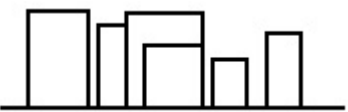
70819149333.



70819149334.



70819149335.



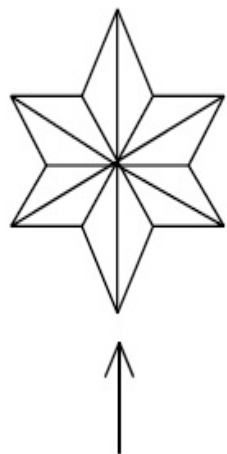
70819149336.



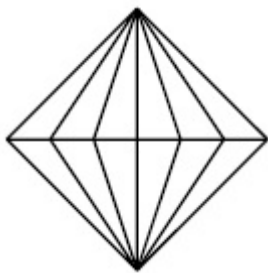
Question Number : 80 Question Id : 70819114805 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

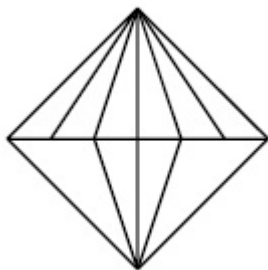
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



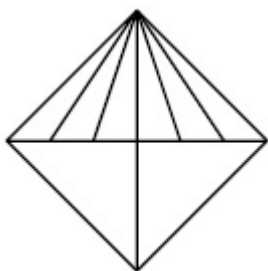
Options :



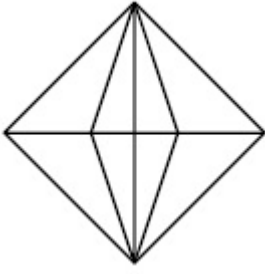
70819149337.



70819149338.



70819149339.



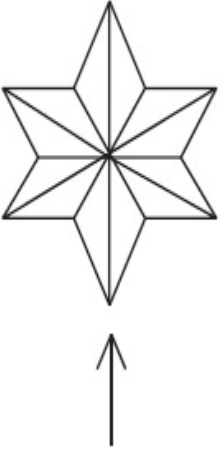
70819149340.

Question Number : 80 Question Id : 70819114805 Question Type : MCQ Option Shuffling : Yes

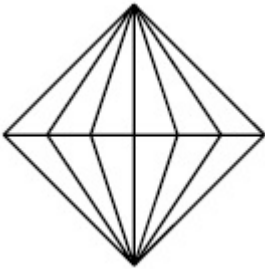
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

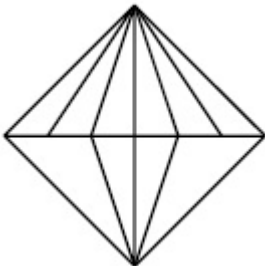
પ્રશ્ન આકૃતિ એક પદાર્થનું ઉપરી દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું ઉન્નત દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.



Options :

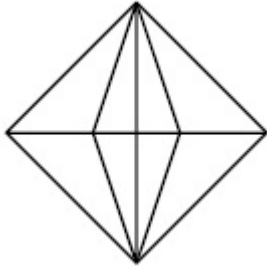
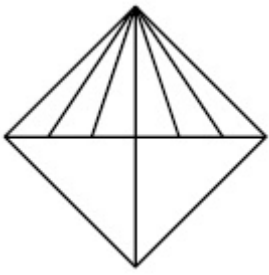


70819149337.



70819149338.

70819149339.



70819149340.

Planning

Section Id :	708191533
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191813
Question Shuffling Allowed :	Yes

Question Number : 81 Question Id : 70819114806 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 :

70819149341. Automobile

70819149342. Clothing and Textile

70819149343. Printing

70819149344. Iron and Steel

Question Number : 81 Question Id : 70819114806 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

પ્રથમ વિશ્વ યુદ્ધ પહેલા લંડનમાં આમાંથી કયા ઉદ્યોગોનું અસ્તિત્વ ન હતું ?

Options :

70819149341. ઓટોમોબાઈલ

70819149342. કપડા અને કાપડ ઉદ્યોગ

70819149343. છાપકામ

70819149344. લોખંડ અને સ્ટીલ

Question Number : 82 Question Id : 70819114807 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 :

70819149345. Nitrogen

70819149346. Greenhouse gas

70819149347. Ozone

70819149348. Suspended Particulate Matter (SPM)

Question Number : 82 Question Id : 70819114807 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

કાર્બન ફૂટપ્રિન્ટમાં વાતાવરણમાં _____ નો જથ્થો મુક્ત થાય છે.

Options :

70819149345. નાઈટ્રોજન

70819149346. ગ્રીન હાઉસ વાયુ

70819149347. ઓઝોન

70819149348. નિલંબિત કણ દ્રવ્ય (સસ્પેન્ડેડ પાર્ટીક્યુલેટ દ્રવ્ય)

Question Number : 83 Question Id : 70819114808 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 :

70819149349. $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819149350. $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819149351. $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819149352. $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

Question Number : 83 Question Id : 70819114808 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

- A. કોડાઈકિનાલ
- B. કુલ્લુ
- C. માર્કિન્ટ આબુ
- D. પંચગીની
- E. પહેલગામ

ભારતમાં ઉપરનાં હવા ખાવાનાં સ્થળોને દક્ષિણ થી ઉત્તર તરફ સાચી શ્રેણીમાં જોડો.
નીચે આપેલા વિકલ્પોમાંથી સાચો જવાબ પસંદ કરો.

Options :

70819149349. $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819149350. $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819149351. $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819149352. $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

Question Number : 84 Question Id : 70819114809 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 :

70819149353. Mo HUA

70819149354. NITI Aayog

70819149355. NIUA

70819149356. PFI

Question Number : 84 Question Id : 70819114809 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ભારત દેશમાં યોજના આયોગને નીચેનાં દ્વારા બદલી કરવામાં આવેલ છે તે _____.

Options :

70819149353. Mo HUA

70819149354. નીતિ આયોગ

70819149355. NIUA

70819149356. PFI

Question Number : 85 Question Id : 70819114810 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 :

70819149357. 2005

70819149358. 2007

70819149359. 2009

70819149360. 2011

Question Number : 85 Question Id : 70819114810 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ભારતમાં વિશેષ આર્થિક ઝોન કાયદો ક્યારે લાગુ કરાયો હતો ?

Options :

70819149357. 2005

70819149358. 2007

70819149359. 2009

70819149360. 2011

Question Number : 86 Question Id : 70819114811 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 :

70819149361. National Horticulture Association of India.

70819149362. National Heritage Authority of India.

70819149363. National Hydroelectric Power Authority of India.

70819149364. National Highway Authority of India.

Question Number : 86 Question Id : 70819114811 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

NHAI નું સંપૂર્ણ સ્વરૂપ શું છે ? સાચો જવાબ પસંદ કરો.

Options :

70819149361. નેશનલ હોર્ટીકલ્ચર એસોસિયેશન ઓફ ઈન્ડિયા

70819149362. નેશનલ હેરિટેજ ઓથોરિટી ઓફ ઈન્ડિયા

70819149363. નેશનલ હાઈડ્રો ઇલેક્ટ્રીક પાવર ઓથોરિટી ઓફ ઈન્ડિયા

70819149364. નેશનલ હાઈવે ઓથોરિટી ઓફ ઈન્ડિયા

Question Number : 87 Question Id : 70819114812 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 :

70819149365. 15

70819149366. 16

70819149367. 17

70819149368. 18

Question Number : 87 Question Id : 70819114812 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

યુનાઈટેડ રાષ્ટ્રો દ્વારા કેટલા ટકાઉ વિકાસ લક્ષ્યો અપનાવવામાં આવ્યા છે ?

Options :

70819149365. 15

70819149366. 16

70819149367. 17

70819149368. 18

Question Number : 88 Question Id : 70819114813 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 :

70819149369. 1947

70819149370. 1948

70819149371. 1950

70819149372. 1949

Question Number : 88 Question Id : 70819114813 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

કયા વર્ષમાં ભારત સરકારની પ્રથમ ઔદ્યોગિક નીતિની જાહેરાત કરવામાં આવી હતી ?

Options :

70819149369. 1947

70819149370. 1948

70819149371. 1950

70819149372. 1949

Question Number : 89 Question Id : 70819114814 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 :

70819149373. superblocks

70819149374. radial pattern

70819149375. high rise development

70819149376. waterbased transport

Question Number : 89 Question Id : 70819114814 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

સ્પેનમાં બાર્સિલોના શહેરનું આયોજન તેના માટે જાણીતું છે તે _____.

Options :

70819149373. સુપર બ્લોક

70819149374. રેડીયલ પેટર્ન

70819149375. હાઈ રાઈઝ વિકાસ (High rise development)

70819149376. પાણી આધારિત પરિવહન

Question Number : 90 Question Id : 70819114815 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 :

70819149377. Durgapur

70819149378. Vishakhapatnam

70819149379. Bhubaneswar

70819149380. Bhilai

Question Number : 90 Question Id : 70819114815 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચેના માંથી કયું એક ઔદ્યોગિક શહેર નથી ?

Options :

70819149377. દૂર્ગાપૂર

70819149378. વિશાખાપટ્ટનમ

70819149379. ભૂવનેશ્વર

70819149380. બિલાઈ

Question Number : 91 Question Id : 70819114816 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 :

70819149381. AMRUT

70819149382. Make in India

70819149383. HRIDAY

70819149384. UDAY

Question Number : 91 Question Id : 70819114816 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ભારત સરકારની નીચેનામાંથી કઈ યોજનાઓ/કાર્યક્રમ હેરિટેજ શહેરો સાથે જોડાયેલી છે _____.

Options :

70819149381. AMRUT

70819149382. Make in India

70819149383. HRIDAY

70819149384. UDAY

Question Number : 92 Question Id : 70819114817 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 :

70819149385. Tamil Nadu

70819149386. Karnataka

70819149387. Andhra Pradesh

70819149388. Kerala

Question Number : 92 Question Id : 70819114817 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચેના આપેલામાંથી કયા એક દક્ષિણભારતનાં રાજ્યમાં તેના કુલ ભૂગર્ભ જળ ક્ષમતામાંથી સૌથી વધુ ભૂગર્ભ જળ વપરાશ (ટકાવારીમાં) થાય છે ?

Options :

70819149385. તામિલનાડુ

70819149386. કર્ણાટક

70819149387. આંધ્રપ્રદેશ

70819149388. કેરલ

Question Number : 93 Question Id : 70819114818 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Survey of India was established in :

Options :

70819149389. 1886

70819149390. 1876

70819149391. 1866

70819149392. 1896

Question Number : 93 Question Id : 70819114818 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ભારતમાં સર્વે (Survey) ની સ્થાપના કરવામાં આવી હતી તે _____.

Options :

70819149389. 1886

70819149390. 1876

70819149391. 1866

70819149392. 1896

Question Number : 94 Question Id : 70819114819 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Options :

70819149393. Lok Sabha

70819149394. State Legislative Assembly

70819149395. Cabinets

70819149396. Panchayati Raj bodies

Question Number : 94 Question Id : 70819114819 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

1992 ના 73rd સુધારા અધિનિયમ મુજબ, નીચેના માંથી કોઈ એકમાં મહિલાઓ માટે એક તૃતીયાંશ (1/3) આરક્ષણ આપવામાં આવ્યું હતું તે શોધો.

Options :

70819149393. લોકસભા

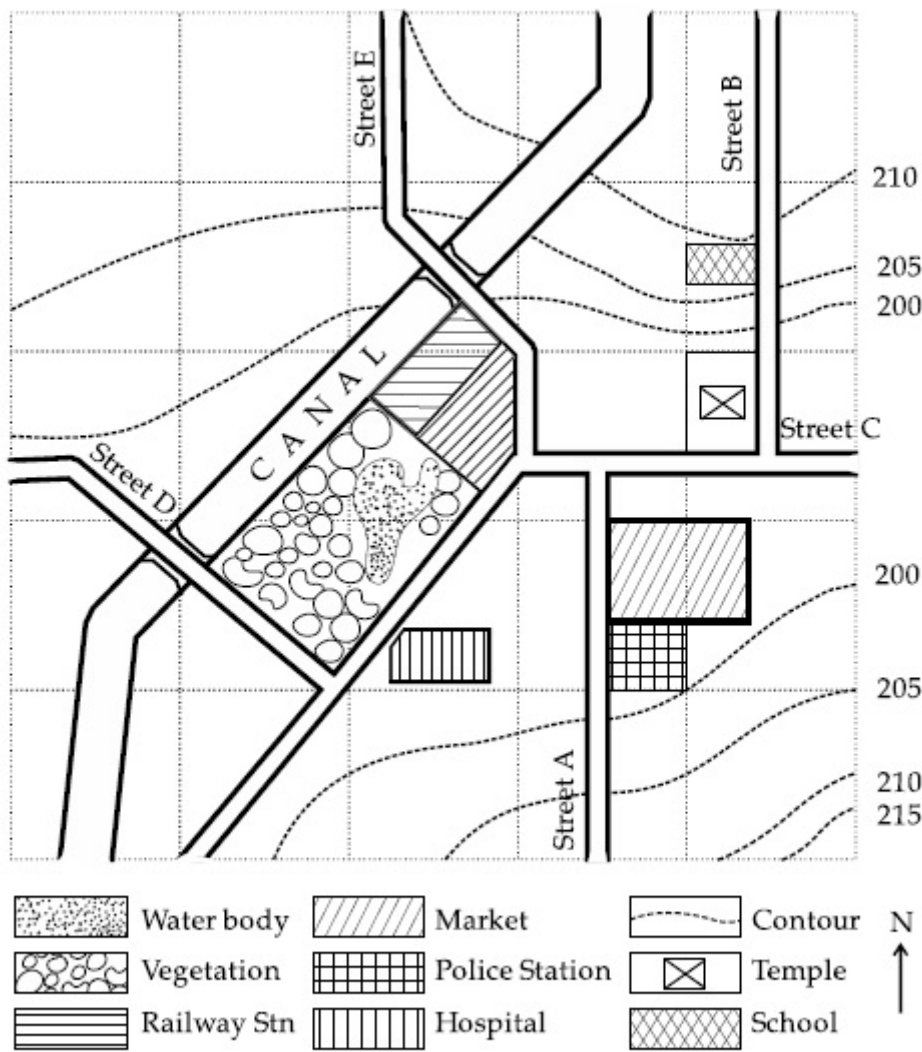
70819149394. રાજ્ય વિધાનસભા

70819149395. કેબિનેટ

Question Number : 95 Question Id : 70819114820 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 :

70819149397. Slope of land on which school is located is flatter than the slope of land on which hospital is located.

70819149398. Slope of land on which police station is located is steeper than the slope of land on which school is located.

70819149399.

Slope of land on which school is located is steeper than the slope of land on which temple is located.

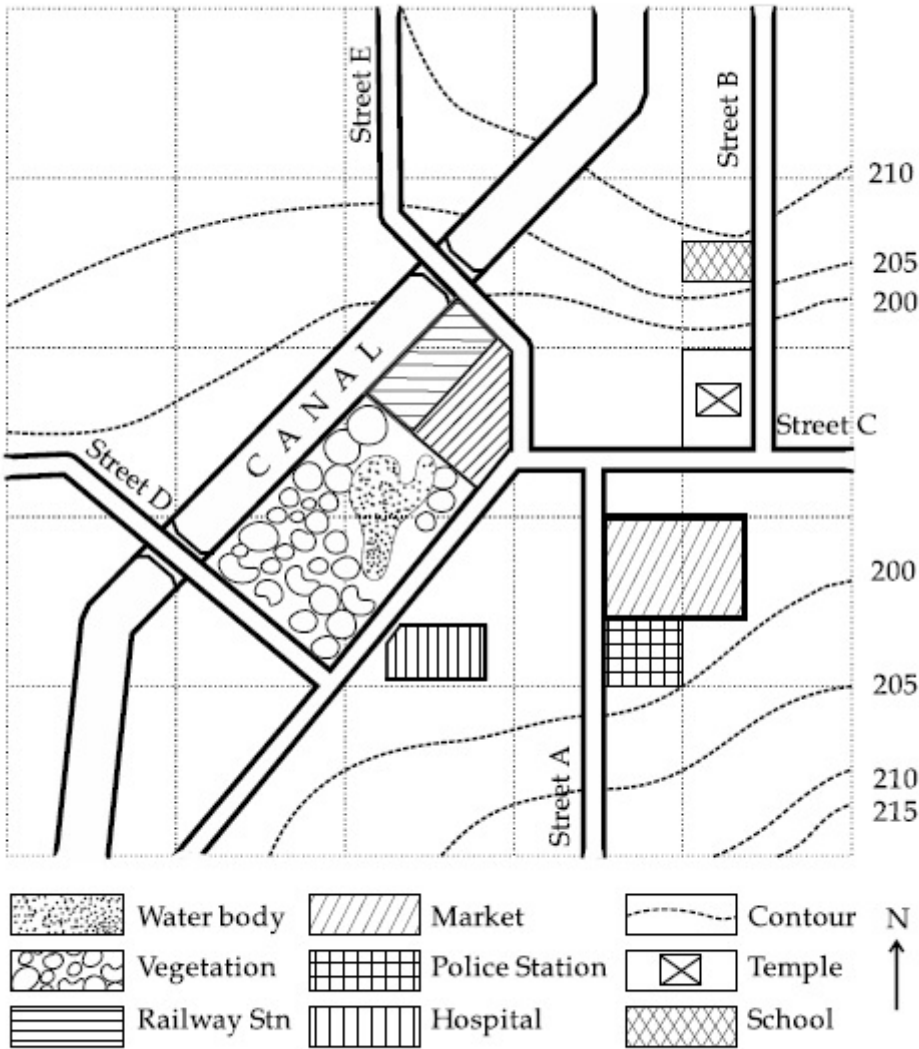
70819149400. Slope of land on which school is located is the same as the slope of land on which temple is located.

Question Number : 95 Question Id : 70819114820 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map reading



ડાયાગ્રામનાં સંદર્ભમાં, સાચું વિધાન પસંદ કરો.

Options :

70819149397. જમીનનો ઢાળ કે જેના પર હોસ્પિટલ સ્થિત છે તેના કરતાં જમીનનો ઢાળ કે જેના પર શાળા આવેલી છે તે સપાટ છે.

70819149398. જમીનનો ઢાળ કે જેના પર શાળા સ્થિત છે તેના કરતાં જમીનનો ઢાળ કે જેના પર પોલિસ સ્ટેશન આવેલ છે. તે વધુ ઢોળાવ વાળો છે.

70819149399. જમીનનો ઢાળ કે જેના પર મંદિર સ્થિત છે તેના કરતાં જમીનનો ઢાળ કે જેના પર શાળા આવેલ છે તે વધુ ઢોળાવ વાળો છે.

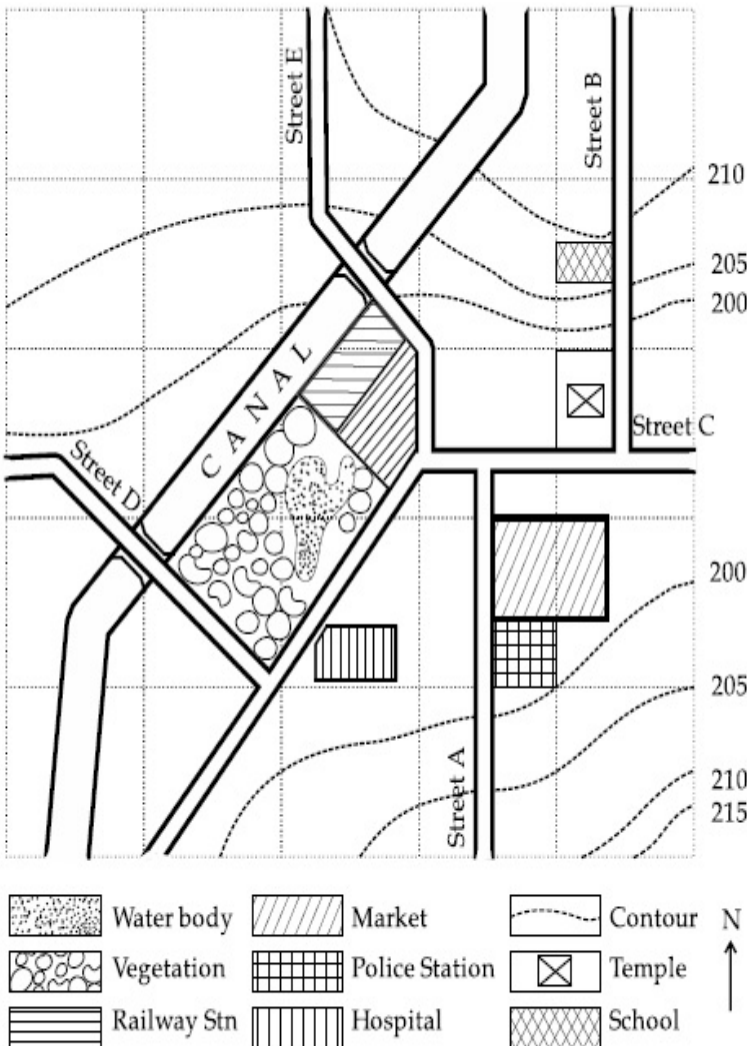
70819149400. જમીનનો ઢાળ કે જેના પર મંદિર સ્થિત છે અને જમીનનો ઢાળ કે જેના પર શાળા આવેલી છે તે સમાન છે.

Question Number : 96 Question Id : 70819114821 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 :

70819149401. North

70819149402. North - East

70819149403. South - West

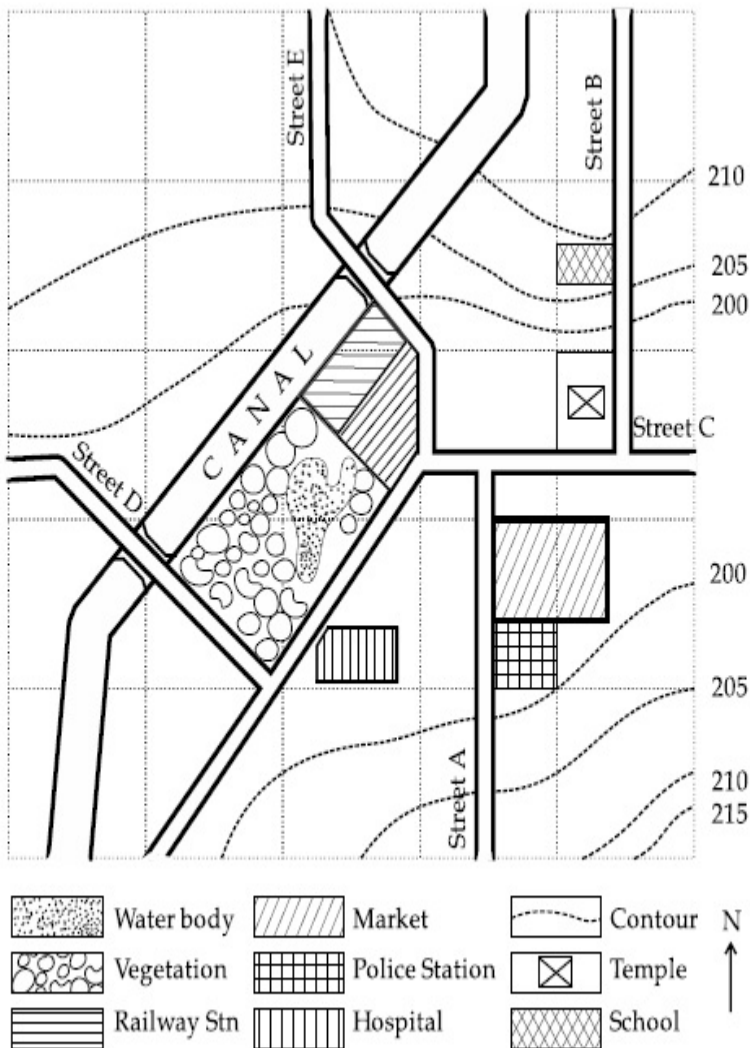
70819149404. East

Question Number : 96 Question Id : 70819114821 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map reading



આપેલ ડાયાગ્રામમાં, એક વ્યક્તિને રેલ્વે સ્ટેશન થી મંદિર સફર કરવા માટે તેને _____ દિશામાં સ્થળાંતર કરવું પડે.

Options :

70819149401. ઉત્તર

70819149402. ઉત્તર-પૂર્વ

70819149403. દક્ષિણ-પશ્ચિમ

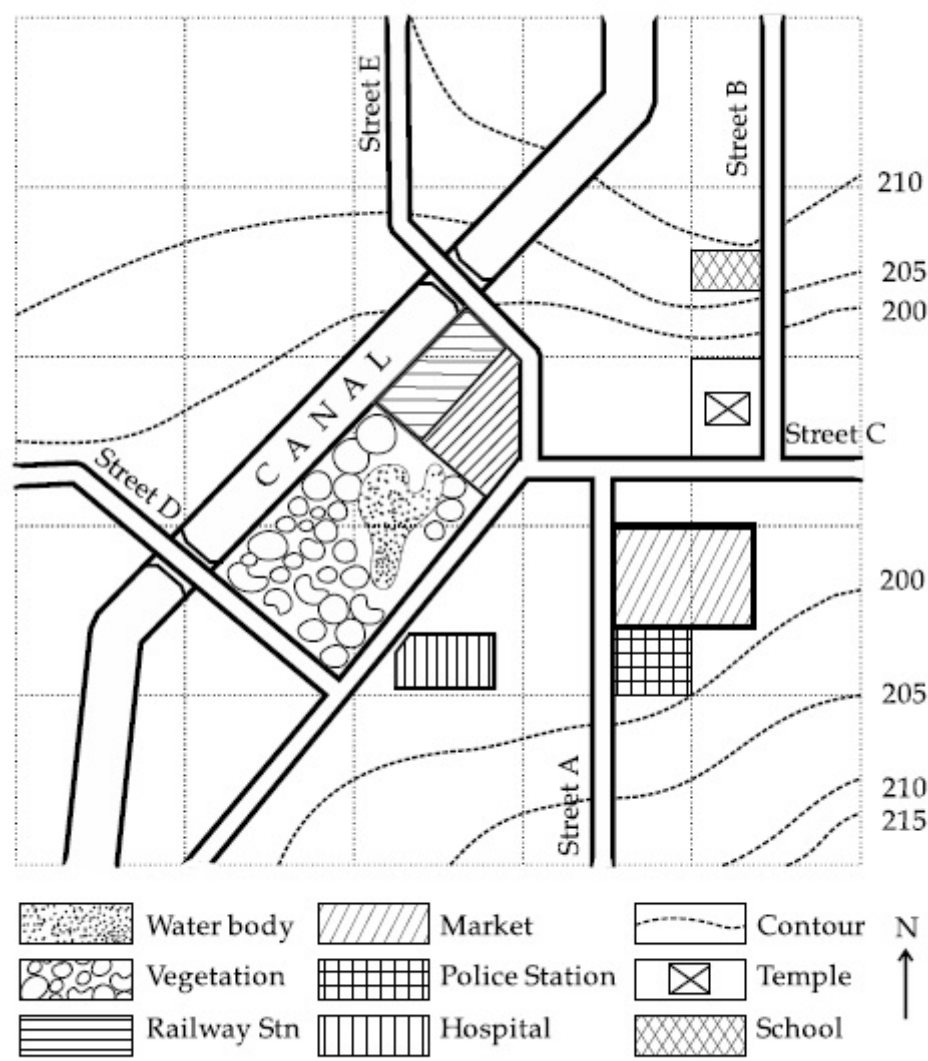
70819149404. પૂર્વ

Question Number : 97 Question Id : 70819114822 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 :

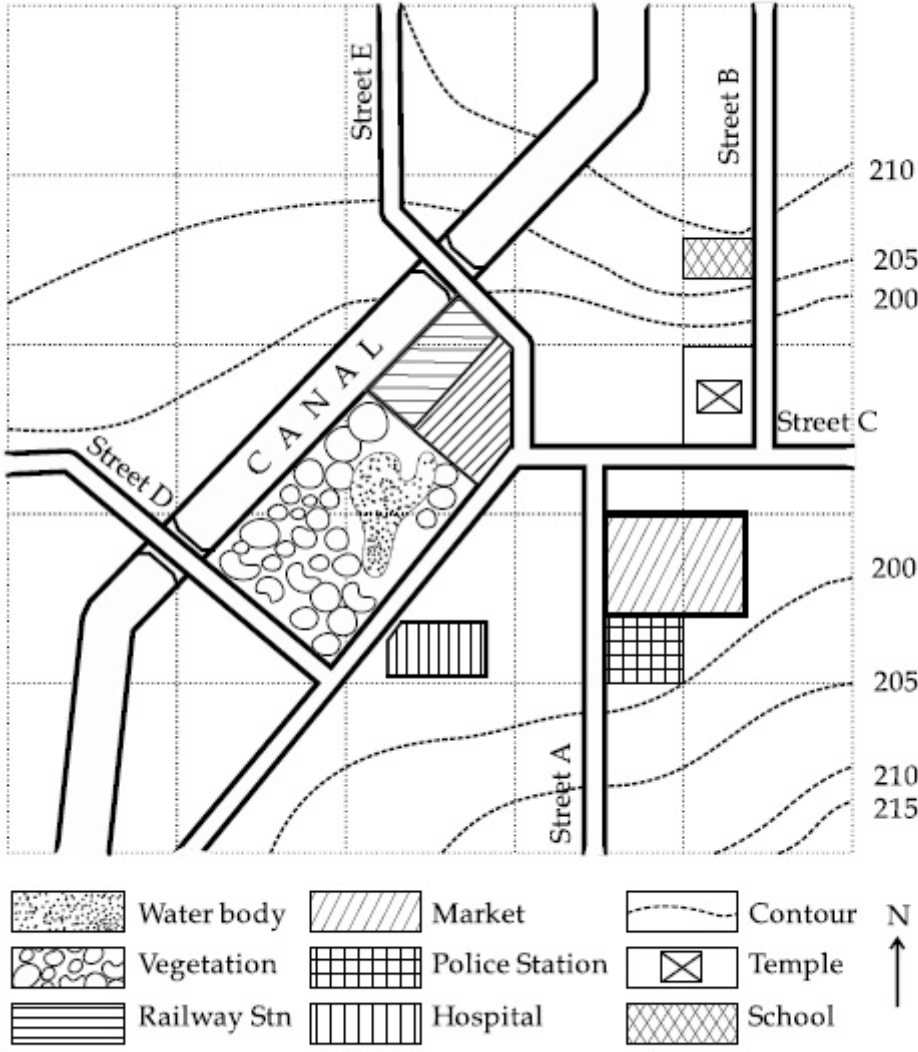
70819149405. 5 m higher than police station.

70819149406. 5 m higher than school.

70819149407. same level as police station.

70819149408. same level as school.

Map reading



આપેલ ડાયાગ્રામમાં, જળ બોડી (water body) એક સ્તર પર સ્થિત છે તે _____.

Options :

70819149405. પોલિસ સ્ટેશન કરતાં 5 m ઊંચું

70819149406. શાળા કરતાં 5 m ઊંચું

70819149407. પોલિસ સ્ટેશન જેટલા જ સ્તર પર

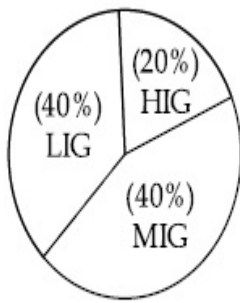
70819149408. શાળા જેટલા જ સ્તર પર

Question Number : 98 Question Id : 70819114823 Question Type : MCQ Option Shuffling : Yes

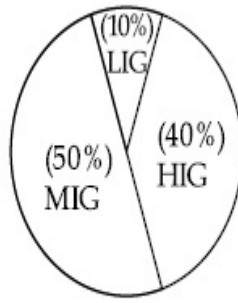
Is Question Mandatory : No

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 :

70819149409. **4 : 1**

70819149410. **1 : 5**

70819149411. **6 : 1**

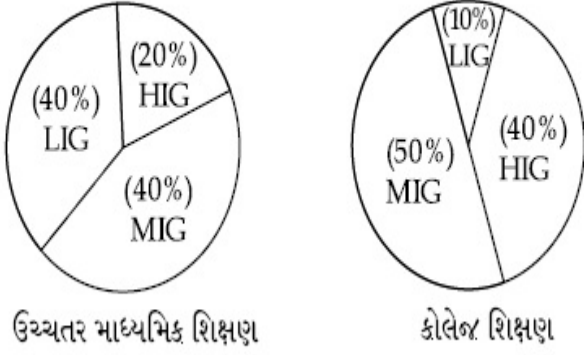
70819149412. **1 : 4**

Question Number : 98 Question Id : 70819114823 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

પરિવારોની તેમની ઘરગથ્થુ આવકનાં સંદર્ભમાં, નીચે એક પાઈ-ચાર્ટ (પાઈ આલેખ) માં વિદ્યાર્થીઓની ઉચ્ચતર માધ્યમિક અને કોલેજ શિક્ષણમાં નોંધણીનું વિતરણ દર્શાવેલ છે.



ઉચ્ચતર માધ્યમિક થી કોલેજમાં અભ્યાસ કરતાં LIG ઘરગથ્થુ શ્રેણીમાંના વિદ્યાર્થીઓની સંખ્યાનો ગુણોત્તર શોધો.

Options :

70819149409. 4 : 1

70819149410. 1 : 5

70819149411. 6 : 1

70819149412. 1 : 4

Question Number : 99 Question Id : 70819114824 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The surface area of earth is 510 million km². 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 :

70819149413. The density of population in urban area is 1000 persons/sq.km.

70819149414. The density of population in urban area is 849 persons/sq.km.

70819149415. The density of population in urban area is 4290 persons/sq.km.

70819149416. The density of population in urban area is 7800 persons/sq.km.

Question Number : 99 Question Id : 70819114824 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

પૃથ્વીનું ક્ષેત્રફળ 510 બિલિયન km^2 છે. કુલ ક્ષેત્રફળનો ત્રીસ ટકા ભૂમિ વિસ્તાર છે. કુલ ભૂમિ વિસ્તારનાં ત્રણ ટકા શહેરી જમીન છે. વિશ્વની વસ્તી 7.8 બિલિયન છે અને પંચાવન ટકા એ શહેરી વસ્તી છે. નજીકનો સાચો જવાબ શોધો.

Options :

70819149413. શહેરી વિસ્તારમાં વસ્તીની ગીચતા 1000 વ્યક્તિઓ/sq.km. છે.

70819149414. શહેરી વિસ્તારમાં વસ્તીની ગીચતા 849 વ્યક્તિઓ/sq.km. છે.

70819149415. શહેરી વિસ્તારમાં વસ્તીની ગીચતા 4290 વ્યક્તિઓ/sq.km. છે.

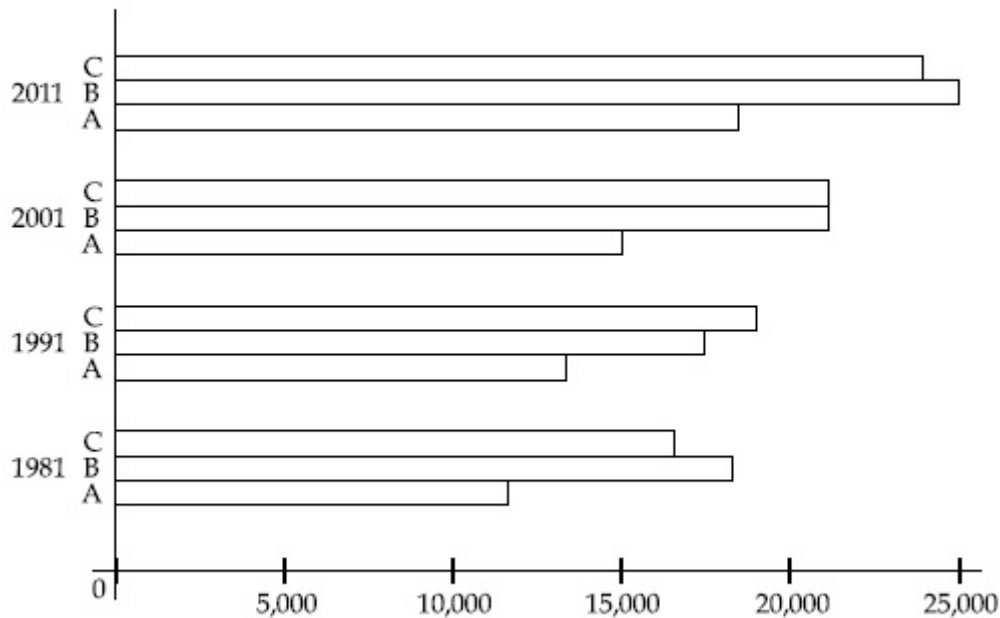
70819149416. શહેરી વિસ્તારમાં વસ્તીની ગીચતા 7800 વ્યક્તિઓ/sq.km. છે.

Question Number : 100 Question Id : 70819114825 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 :

70819149417. City A shows the increase in population from 1981 to 2011 and city C does not show the increase likewise.

70819149418. City B shows a continuous decline in population from 1981–2011 whereas city A shows an increase.

70819149419. 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.

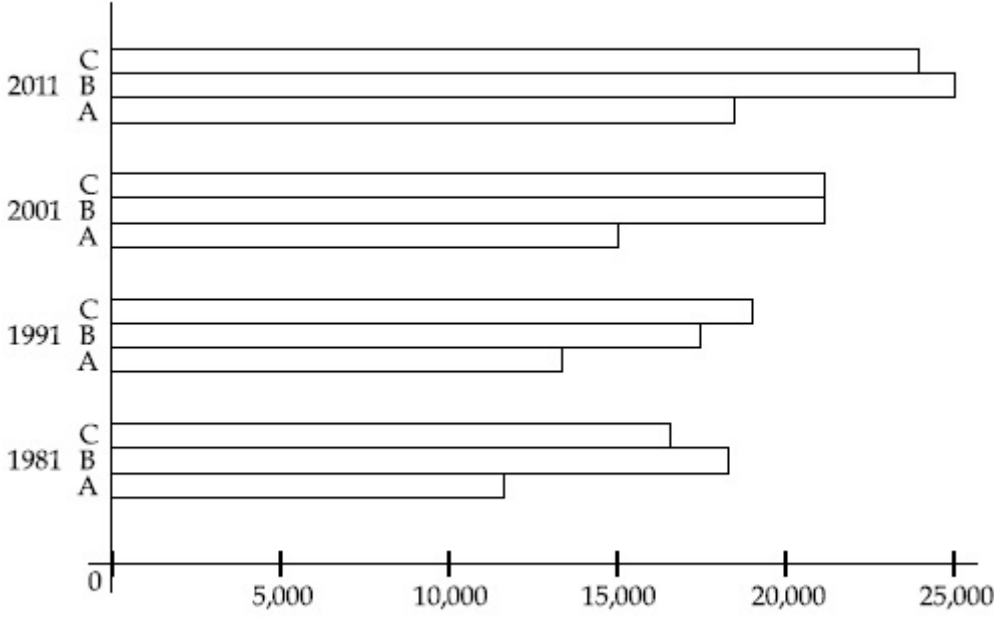
70819149420. City C shows continuous decline in population in various decades whereas city B shows increase.

Question Number : 100 Question Id : 70819114825 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

1981 થી 2011 માં શહેર A, B અને C ની જનસંખ્યા :



સાચો જવાબ પસંદ કરો.

Options :

70819149417. શહેર A એ 1981 થી 2011 દરમિયાન વસ્તીમાં વધારો પ્રદર્શિત કરે છે અને શહેર C તેવી જ રીતે પ્રદર્શિત કરતો નથી.

70819149418. શહેર B એ 1981-2011 દરમિયાન વસ્તીમાં સતત ઘટાડો પ્રદર્શિત કરે છે જ્યારે શહેર A વધારો પ્રદર્શિત કરે છે.

70819149419. શહેર A માં વસ્તી 1981 થી 2001 દરમિયાન દરેક દાયકામાં વધારો પ્રદર્શિત કરે છે જ્યારે શહેર B 1981 થી 1991 દરમિયાન ઘટાડો અને પછી 1991 થી 2001 દરમિયાન વધારો દર્શાવે છે.

70819149420. શહેર C વિવિધ દાયકામાં વસ્તીમાં સતત ઘટાડો જ્યારે શહેર B વધારો પ્રદર્શિત કરે છે.

Question Number : 101 Question Id : 70819114826 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 (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 :

70819149421. 26 kmhr^{-1}

70819149422. 21.5 kmhr^{-1}

70819149423. 30 kmhr^{-1}

70819149424. 28.5 kmhr^{-1}

Question Number : 101 Question Id : 70819114826 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

એક સર્વેમાં 100 વાહનોની ગતિ જોવા મળી હતી. નીચેનું કોષ્ટક વાહનોની ગતિનું વિતરણ અને તેને અનુરૂપ વાહનોની સંખ્યા દર્શાવે છે.

વાહનોની ગતિ (kmhr^{-1})	વાહનોની સંખ્યા
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

તો વાહનોની સરેરાશ ગતિ શોધો.

Options :

70819149421. 26 kmhr^{-1}

70819149422. 21.5 kmhr^{-1}

70819149423. 30 kmhr^{-1}

70819149424. 28.5 kmhr^{-1}

Question Number : 102 Question Id : 70819114827 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 :

70819149425. As a charity by privileged people.

70819149426. As a way to reduce crime.

70819149427. As a way to sensitize travellers about poor living conditions in the society.

70819149428. As an adventure activity.

Question Number : 102 Question Id : 70819114827 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 :

70819149425. As a charity by privileged people.

70819149426. As a way to reduce crime.

70819149427. As a way to sensitize travellers about poor living conditions in the society.

70819149428. As an adventure activity.

Question Number : 103 Question Id : 70819114828 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 :

70819149429. Learning

70819149430. Staring

70819149431. Peeping

70819149432. Gloating

Question Number : 103 Question Id : 70819114828 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 :

70819149429. Learning

70819149430. Staring

70819149431. Peeping

70819149432. Gloating

Question Number : 104 Question Id : 70819114829 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 :

70819149433. Both A and R are true and R is the correct explanation of A

70819149434. Both A and R are true but R is NOT the correct explanation of A

70819149435. A is true but R is false

70819149436. A is false but R is true

Question Number : 104 Question Id : 70819114829 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચે બે વિધાનો આપેલા છે : એક ને કથન A વડે અને બીજાને કારણ R વડે લેબલ કરેલ છે.

કથન A : છેલ્લા બે દાયકામાં સામૂહિક ધ્યાનનો ગાળો ઘટી રહ્યો છે.

કારણ R : ઝડપી ઉપલબ્ધતા અને વિશાળ માત્રામાં માહિતી મેળવવાની ઝડપી પહોંચ એક વિષયમાં ખૂબ જ ઝડપથી રસ ગુમાવ્યા તરફ દોરી જાય છે.

ઉપરનાં વિધાનોનાં સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સૌથી વધુ બંધબેસતો જવાબ પસંદ કરો.

Options :

70819149433. બન્ને, A અને R સાચાં છે અને R એ A ની સાચી સમજૂતી છે.

70819149434. બન્ને, A અને R સાચાં છે અને R એ A ની સાચી સમજૂતી નથી.

70819149435. A સાચું છે પણ R ખોટું છે.

70819149436. A ખોટું છે પણ R સાચું છે.

Question Number : 105 Question Id : 70819114830 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 :

70819149437. Both A and R are true and R is the correct explanation of A

70819149438. Both A and R are true but R is NOT the correct explanation of A

70819149439. A is true but R is false

70819149440. A is false but R is true

Question Number : 105 Question Id : 70819114830 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

નીચે બે વિધાનો આપેલા છે : એક ને કથન A વડે અને બીજાને કારણ R વડે લેબલ કરેલ છે.

કથન A : પાછલા બે દાયકામાં ભારતમાં છૂટાછેડાનો દર વધ્યો છે.

કારણ R : પરિણીત દંપતીની વધતી સંખ્યા તેઓ બાળકો ઈચ્છતા નથી.

ઉપરનાં વિધાનોનાં સંદર્ભમાં, નીચે આપેલા વિકલ્પોમાંથી સૌથી વધુ બંધબેસતો જવાબ પસંદ કરો.

Options :

70819149437. બંને, A અને R સાચાં છે અને R એ A ની સાચી સમજૂતી છે.

70819149438. બંને, A અને R સાચાં છે અને R એ A ની સાચી સમજૂતી નથી.

70819149439. A સાચું છે પણ R ખોટું છે.

70819149440. A ખોટું છે પણ R સાચું છે.

Drawing

Section Id :	708191534
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 :	708191814

Question Shuffling Allowed :

No

Question Number : 106 Question Id : 70819114831 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 : 70819114831 Question Type : SUBJECTIVE

Correct Marks : 50

આપેલ સંદર્ભ ચિત્રનું સમતુલિત, પ્રમાણસરનું રેખાચિત્ર બનાવો. તે માટે તમારી ઈચ્છાની શ્વેત/શ્યામ રેન્ડરીંગ/(rendering) રીતોનો ઉપયોગ કરો.

અથવા

આપેલ ચિત્રને છુટ્ટું કરી નાંખો / તોડી નાંખો / ડીકોડ કરો / Decode કરો અને સમતુલિત સંયોજન બનાવો. તે માટે તમારી ઈચ્છાની શ્વેત/શ્યામ રેન્ડરીંગ /rendering રીતોનો ઉપયોગ કરો.



Question Number : 107 Question Id : 70819114832 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 $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 5 Nos.
- (ii) CUBOID B : SIZE $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 4 Nos.

Use 'Cool Colorscheme' for composition.

Question Number : 107 Question Id : 70819114832 Question Type : SUBJECTIVE

Correct Marks : 50

વિવિધ રંગો વડે પતંગોત્સવનું ચિત્ર દોરો.

અથવા

નીચે પ્રકારની બે વસ્તુઓ વાપરીને તાલબદ્ધ 3-D સંયોજન બનાવો.

(i) ધન અ : સાઈઝ 2 સે.મી. $\times$ 2 સે.મી. $\times$ 2 સે.મી. કુલ સંખ્યા 5

(ii) ધન બ : સાઈઝ 5 સે.મી. $\times$ 2 સે.મી. $\times$ 2 સે.મી. કુલ સંખ્યા 4

રચના (Composition) માટે “ઠંડી રંગયોજના” નો ઉપયોગ કરો.