

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

Group Number :	1
Group Id :	708191160
Group Maximum Duration :	0
Group Minimum Duration :	210
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	500
Is this Group for Examiner? :	No

Mathematics Section A

Section Id :	708191540
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 : 708191820
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 70819114940 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 :

70819149831. $\frac{121}{3}$

70819149832. $\frac{122}{3}$

70819149833. $\frac{125}{3}$

70819149834. $\frac{128}{3}$

Question Number : 1 Question Id : 70819114940 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\int_{-4}^4 |9-x^2| dx$ या पूर्णांकी (integral) चे मूल्य _____ आहे.

Options :

70819149831. $\frac{121}{3}$

70819149832. $\frac{122}{3}$

70819149833. $\frac{125}{3}$

70819149834. $\frac{128}{3}$

Question Number : 2 Question Id : 70819114941 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 :

70819149835. $\frac{31}{13}$

70819149836. $\frac{108}{13}$

70819149837. $\frac{27}{2}$

70819149838. $\frac{54}{7}$

Question Number : 2 Question Id : 70819114941 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

भूमिती श्रेढी (Geometric Progression) च्या अनंत पदांची (infinite number of terms) बेरीज 3 आहे.

आणि त्याच्या पदांच्या वर्गाची बेरीज $\frac{9}{2}$ आहे. तर त्याच्या पदांच्या घाता (cubes) ची बेरीज _____ आहे.

Options :

70819149835. $\frac{31}{13}$

70819149836. $\frac{108}{13}$

70819149837. $\frac{27}{2}$

70819149838. $\frac{54}{7}$

Question Number : 3 Question Id : 70819114942 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 :

70819149839. $P \Leftrightarrow P \vee q$

70819149840. $(P \wedge q) \Leftrightarrow P$

70819149841. $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819149842. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 3 Question Id : 70819114942 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दिलेल्या बूलीय पदावली (Boolean expression) मध्ये कोणती पदावली अनुलाप (tautology) आहे ?

Options :

70819149839. $P \Leftrightarrow P \vee q$

70819149840. $(P \wedge q) \Leftrightarrow P$

70819149841. $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819149842. $(P \vee \sim P) \wedge (q \vee (\sim q))$

Question Number : 4 Question Id : 70819114943 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 :

70819149843. a, b and c are in Arithmetic Progression

70819149844. a, b and c are in Geometric Progression

70819149845. a, 2b and c are in Arithmetic Progression

70819149846. a, b and c satisfy $2b^2=ac$

Question Number : 4 Question Id : 70819114943 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

समजा $|a|<1, |b|<1, |c|<1$ आणि $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$ जर $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$ हे गणित श्रेढी (A.P.)

मध्ये आहेत, तर :

Options :

70819149843. a, b आणि c हे गणित श्रेढी मध्ये आहेत.

70819149844. a, b आणि c हे भूमिती श्रेढी (G.P.) मध्ये आहेत.

70819149845. a, 2b आणि c हे गणित श्रेढी मध्ये आहेत.

70819149846. a, b आणि c हे $2b^2=ac$ ची पूर्ती करतात

Question Number : 5 Question Id : 70819114944 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 :

70819149847. $15e + 5$

70819149848. $15e - 5$

70819149849. $16e - 5$

70819149850. $16e - 7$

Question Number : 5 Question Id : 70819114944 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$ बरोबर _____ आहे.

Options :

70819149847. $15e + 5$

70819149848. $15e - 5$

70819149849. $16e - 5$

70819149850. $16e - 7$

Question Number : 6 Question Id : 70819114945 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 :

70819149851. 5

70819149852. 3

70819149853. 7

70819149854. 1

Question Number : 6 Question Id : 70819114945 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

λ चे लघुत्तम धन पूर्णांकी मूल्य (least positive integral value) जसे की $10^{50} + (3 \times (4)^{52}) + \lambda$ हे 9 ने विभाज्य (divisible) आहे, _____ आहे.

Options :

70819149851. 5

70819149852. 3

70819149853. 7

70819149854. 1

Question Number : 7 Question Id : 70819114946 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 :

70819149855. 455

70819149856. 421

70819149857. 435

70819149858. 441

Question Number : 7 Question Id : 70819114946 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

तेथे 4, 5 आणि 6 बिंदू हे एक प्रतलीय (co-planar) असणाऱ्या तीन समांतर रेषांवर आहेत. जर चार किंवा त्या पेक्षा जास्त बिंदू चा संच चक्रीय (cyclic) नाही, आणि भिन्न (distinct) रेषेवर असणाऱ्या 3 बिंदूंचा संच एकरेषीय (collinear) नाही, तर अचूक (exactly) तीन बिंदू मधून जाणाऱ्या वर्तुळांची संख्या _____ आहे.

Options :

70819149855. 455

70819149856. 421

70819149857. 435

70819149858. 441

Question Number : 8 Question Id : 70819114947 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 :

70819149859. a = 1, b = 0

70819149860. a = 0, b = 1

70819149861. a = 0, b = -1

70819149862. a = -1, b = 1

Question Number : 8 Question Id : 70819114947 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

जर $y = \frac{ax - b}{(x - 1)(x - 4)}$ हे $(2, -1)$ या बिंदूत कमाल किंवा किमान (extremum) आहे, तर a आणि b ची मूल्ये _____ आहेत.

Options :

70819149859. $a = 1, b = 0$

70819149860. $a = 0, b = 1$

70819149861. $a = 0, b = -1$

70819149862. $a = -1, b = 1$

Question Number : 9 Question Id : 70819114948 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 :

70819149863. $\frac{9}{13}$

70819149864. $\frac{15}{4}$

70819149865. $\frac{13}{9}$

70819149866. $\frac{1}{13}$

Question Number : 9 Question Id : 70819114948 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$ आणि $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$ या प्रतलांमधील अंतर (distance) _____ आहे.

Options :

70819149863. $\frac{9}{13}$

70819149864. $\frac{15}{4}$

70819149865. $\frac{13}{9}$

70819149866. $\frac{1}{13}$

Question Number : 10 Question Id : 70819114949 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 :

70819149867. $\frac{7}{20}$

70819149868. $\frac{1}{20}$

70819149869. $\frac{19}{20}$

70819149870. $\frac{12}{20}$

Question Number : 10 Question Id : 70819114949 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

X आणि Y या दोन विद्यार्थ्यांची गणितामधील एक प्रश्न (problem) सोडविण्यासाठी ची संभाव्यता अनुक्रमे $\frac{1}{4}$

आणि $\frac{1}{5}$ आहे. जर दोघांनी स्वतंत्रपणे प्रश्न सोडविण्याचा प्रयत्न केला तर त्यांच्या पैकी एकानेच अचूक प्रश्न सोडविण्याची संभाव्यता _____ आहे.

Options :

70819149867. $\frac{7}{20}$

70819149868. $\frac{1}{20}$

70819149869. $\frac{19}{20}$

70819149870. $\frac{12}{20}$

Question Number : 11 Question Id : 70819114950 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 :

70819149871. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819149872. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819149873. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819149874. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 11 Question Id : 70819114950 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\frac{1+i}{1-i}$ या संमिश्र संख्येचा (complex number) ध्रुवीय प्रकार (polar form) बरोबर _____ आहे.

Options :

70819149871. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819149872. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819149873. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

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

70819149874.

Question Number : 12 Question Id : 70819114951 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 :

70819149875. 2

70819149876. 3

70819149877. 4

70819149878. 1

Question Number : 12 Question Id : 70819114951 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

जर एका रेषेचे समीकरण, जी (1, 0) आणि (3, 0) या बिंदूना जोडणाऱ्या रेषाखंडाला (segment) 2 : 1 या गुणोत्तरात विभागते आणि शिवाय त्या रेषाखंडावर लंब आहे, $ax=7$ आहे, तर a चे मूल्य बरोबर _____ आहे.

Options :

70819149875. 2

70819149876. 3

70819149877. 4

Question Number : 13 Question Id : 70819114952 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 :

70819149879. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819149880. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819149881. $2(x^2 + y^2) - x + y + 1 = 0$

70819149882. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 13 Question Id : 70819114952 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

वर्तुळाचे समीकरण, जे वर्तुळ $x + y = 2$ रेषेच्या सापेक्ष (with respect) असणाऱ्या $x^2 + y^2 - 2x = 0$ या वर्तुळाची आरशातील प्रतिमा (mirror image) आहे, _____ आहे.

Options :

70819149879. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819149880. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819149881. $2(x^2 + y^2) - x + y + 1 = 0$

70819149882. $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 14 Question Id : 70819114953 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 :

70819149883. $y+3=0$ and $x-1=0$

70819149884. $x-3=0$ and $y+1=0$

70819149885. $x+3=0$ and $x-1=0$

70819149886. $y+3=0$ and $y-1=0$

**Question Number : 14 Question Id : 70819114953 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

विवृत (ellipse) $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$ आणि वर्तुळ $(x+1)^2 + (y-1)^2 = 4$ यांच्या सामाईक (common)

स्पर्शिकांची समीकरणे _____ आहेत.

Options :

70819149883. $y+3=0$ and $x-1=0$

70819149884. $x-3=0$ and $y+1=0$

70819149885. $x+3=0$ and $x-1=0$

70819149886. $y+3=0$ and $y-1=0$

Question Number : 15 Question Id : 70819114954 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 :

70819149887. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819149888. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819149889. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819149890. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 15 Question Id : 70819114954 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

जर $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$, तर A^k ($k \in \mathbb{N}$) _____ आहे.

Options :

70819149887.

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

70819149888. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819149889. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819149890. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819114955 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 :

70819149891. $s = 5, t = 13$

70819149892. $s \neq 5$

70819149893. $s = 5, t \neq 13$

70819149894. $t \neq 13$

Question Number : 16 Question Id : 70819114955 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

s आणि t ची मूल्ये, ज्या साठी

$$x_1 + x_2 + x_3 = 5$$

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

$x_1 + 3x_2 + sx_3 = t$ या समीकरणांच्या प्रणालीची उकल नाही, _____ आहेत.

Options :

70819149891. $s = 5, t = 13$

70819149892. $s \neq 5$

70819149893. $s = 5, t \neq 13$

70819149894. $t \neq 13$

Question Number : 17 Question Id : 70819114956 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 :

70819149895. 1

70819149896. -1

70819149897. 0

70819149898. 2

Question Number : 17 Question Id : 70819114956 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ फलाचे $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ च्या सापेक्ष (with respect) विकलन (Derivative) $(1, \infty)$ मध्ये _____ आहे.

Options :

70819149895. ¹

70819149896. ⁻¹

70819149897. ⁰

70819149898. ²

Question Number : 18 Question Id : 70819114957 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 :

70819149899. ^{$\frac{\pi}{6}$}

70819149900. ^{$\frac{\pi}{4}$}

70819149901. ^{$\frac{\pi}{3}$}

70819149902.

 $\frac{5\pi}{12}$ **Question Number : 18 Question Id : 70819114957 Question Type : MCQ Option Shuffling : Yes****Is Question Mandatory : No****Correct Marks : 4 Wrong Marks : 1**

समजा \vec{a} , \vec{b} आणि \vec{c} हे तीन सदिश आहेत जसे की $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$. जर $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$

तर \vec{a} आणि \vec{c} मधील लघूकोन (acute angle) _____ आहे.

Options :70819149899. $\frac{\pi}{6}$ 70819149900. $\frac{\pi}{4}$ 70819149901. $\frac{\pi}{3}$ 70819149902. $\frac{5\pi}{12}$ **Question Number : 19 Question Id : 70819114958 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 :70819149903. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819149904. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819149905. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819149906. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 19 Question Id : 70819114958 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$(1+y^2)dx = (\tan^{-1}y - x)dy$ या विकलक समीकरणा (differential equation) ची उकल _____ आहे.

(जेव्हा c संकलनाचा अचल आहे)

Options :

70819149903. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819149904. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819149905. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819149906. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819114959 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 :

70819149907. $[-5, -4] \cup [4, 5]$

70819149908. $[-5, 4) \cup (-4, 5]$

70819149909. $(-5, -4) \cup (4, 5)$

70819149910. $(-5, 4) \cup (-4, 5)$

Question Number : 20 Question Id : 70819114959 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

x चे मूल्य _____ ज्या साठी $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$ हे सदिश धन दिशेच्या (positive directions) निर्देशक अक्षाशी (coordinate axes) लघूकोन करतो, यात आहे.

Options :

70819149907. $[-5, -4] \cup [4, 5]$

70819149908. $[-5, 4) \cup (-4, 5]$

70819149909. $(-5, -4) \cup (4, 5)$

70819149910. $(-5, 4) \cup (-4, 5)$

Mathematics Section B

Section Id :	708191541
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 : 708191821
Question Shuffling Allowed : Yes

Question Number : 21 Question Id : 70819114960 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 : 70819114960 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

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

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 : 70819114961 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

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

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 22 Question Id : 70819114961 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$9\tan^2\theta + 4\cot^2\theta$ चे किमान मूल्य (minimum value) _____ आहे

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 : 70819114962 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 : 70819114962 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

(1, 2, 3) या बिंदूपासून $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ या रेषेवर काढलेल्या लंबाची (perpendicular) लांबी _____ आहे.

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 : 70819114963 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 : 70819114963 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

जर $\log_3 2, \log_3 (2^x - 5)$ आणि $\log_3 \left(2^x - \frac{7}{2}\right)$ हे गणित श्रेढी (Arithmetic Progression) मध्ये आहेत.
तर x चे मूल्य _____ आहे.

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 : 70819114964 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 : 70819114964 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

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

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 :** 70819114965 **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 :** 70819114965 **Question Type :** SA

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

$x^2+y^2-4x-2y-11=0$ हे एक वर्तुळ आहे त्या वर्तुळाला (4, 5) या बिंदूपासून स्पर्शिका काढल्या असता त्याच्या त्रिज्येच्या जोडी सह एक चौकोन तयार होतो. त्या चौकोनाचे (quadrilateral) क्षेत्रफळ चौरस एकक मध्ये _____ आहे.

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 :** 70819114966 **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 :** 70819114966 **Question Type :** SA

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

जर एका द्विपद वितरणाचे (binomial distribution) मध्य (mean) आणि प्रचरण (variance) यांची बेरीज 15 आहे आणि त्यांच्या वर्गाची बेरीज 117 आहे, तर स्वतंत्रपणे घेतलेल्या चाचणी (independent trials) ची संख्या बरोबर _____ आहे.

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 : 70819114967 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 : 70819114967 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

समजा $(1, 2, 6)$, $(2, 5, 7)$ या बिंदूमधून जाणारे आणि $4x - y + z = 15$ या प्रतलाला लंब असणाऱ्या प्रतलाचे समीकरण $ax + by + cz + d = 0$ आहे. जर $a, b, c, d \in \mathbb{Z}$ सह $\gcd(|a|, |b|, |c|) = 1$, तर $|a + b + c + d|$ बरोबर _____.

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 : 70819114968 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 _____.

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 :** 70819114968 **Question Type :** SA

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

$4\sin^2x - 8\sin x + 3 = 0$ या समीकरण ची $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ या अंतराला (interval) मधील वास्तव (real) उकलींची संख्या _____ आहे.

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 :** 70819114969 **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 $A_5A_7 = 441$, 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 :

Question Number : 30 Question Id : 70819114969 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

समजा A_1, A_2, A_3, \dots ही वाढती भूमिती श्रेढी (increasing geometric progression) आहे, जर

$\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ आणि $A_5 A_7 = 441$, तर $3(A_2 + A_4)$ बरोबर _____ आहे.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Aptitude Test

Section Id :	708191542
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 :	708191822
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 70819114970 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 :

70819149921. United Nations Educational, Scientific & Cultural Organization.
70819149922. United Nations Educational Security Cultural Organization.
70819149923. United Nations Entrance Site Calling Organization.
70819149924. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 31 Question Id : 70819114970 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दिलेल्या पर्यायामधील 'युनेस्को' चे योग्य दीर्घरूप ओळखा :

Options :

70819149921. युनायटेड नेशन्स एजुकेशनल, सायंटिफीक अँड कल्चरल ऑरगनायजेशन
70819149922. युनायटेड नेशन्स एजुकेशनल सेक्युरिटी कल्चरल ऑरगनायजेशन
70819149923. युनायटेड नेशन्स एन्ट्रन्स साईट कॉलिंग ऑरगनायजेशन
70819149924. युनायटेड नेशन्स एजुकेशनल, सस्टेनेबल अँड कल्चरल ऑरगनायजेशन

Question Number : 32 Question Id : 70819114971 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 :

70819149925. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819149926. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149927. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819114971 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सूची - I व सूची - II मधील योग्य जोड्या जुळवा :

सूची - I

सूची - II

(I) हॉल ऑफ नेशन

(a)



(II) फॉलिंग वॉटर, पेनसिलव्हेनिया

(b)



(III) पेट्रोनस टॉवर

(c)



(IV) सेक्रेटरीयट

(d)



Options :

70819149925. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819149926. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149927. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819149928. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 33 Question Id : 70819114972 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 :

70819149929. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819149930. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819149931. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819149932. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 33 Question Id : 70819114972 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सूची - I व सूची - II मधील योग्य जोड्या जुळवा :

सूची - I	सूची - II
(I) कामरू	(a) विक्टोरिया मेमोरियल हॉल
(II) दिल्ली	(b) बद्रीनाथ मंदिर
(III) फतेपुर सिक्री	(c) खिरकी मशिद
(IV) कोलकता	(d) बुलंद दरवाजा

Options :

70819149929. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819149930. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819149931. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819149932. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 34 Question Id : 70819114973 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

List - I

List - II

(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



Options :

70819149933. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819149934. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819149935. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819149936. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819114973 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सूची - I व सूची - II मधील योग्य जोड्या जुळवा :

सूची - I

सूची - II

(I) आग्रा किल्ला

(a)



(II) अटाला मशीद

(b)



(III) नालंदा विश्वविद्यालय

(c)



(IV) जगन्नाथ मंदिर

(d)



Options :

70819149933. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819149934. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819149935. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819149936. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 35 Question Id : 70819114974 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 :

70819149937. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819149938. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149939. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819149940. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 35 Question Id : 70819114974 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सूची - I व सूची - II मधील योग्य जोड्या जुळवा :

सूची - I	सूची - II
(I) यादवेंद्र उद्यान	(a) मनाली
(II) विष्णू मंदिर	(b) अमृतसर
(III) हिडींबा मंदिर	(c) पिंजोर
(IV) हरी मंदिर	(d) बुनियार

Options :

70819149937. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819149938. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819149939. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819149940. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 36 Question Id : 70819114975 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 :

70819149941. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819149942. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819149943. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819149944. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 36 Question Id : 70819114975 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

सूची - I व सूची - II मधील योग्य जोड्या जुळवा :

सूची - I	सूची - II
(I) मेहरानगढ किल्ला	(a) हैद्राबाद
(II) सिरी किल्ला	(b) कोलकत्ता
(III) गोवळकोंडा किल्ला	(c) दिल्ली
(IV) फोर्ट विल्लियम	(d) जोधपूर

खालीलपैकी योग्य पर्याय निवडा :

Options :

70819149941. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819149942. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819149943. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819149944. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 37 Question Id : 70819114976 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 :

70819149945. B.V. Doshi

70819149946. Arundhati Roy

70819149947. Revati Kamat

70819149948. Bimal Patel

Question Number : 37 Question Id : 70819114976 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

कोणते भारतीय वास्तुविद्याविशारद हे 'गॉड ऑफ स्मॉल थिंग्स' या पुस्तकाचे लेखक आहेत?

Options :

70819149945. बि.व्हि. दोशी

70819149946. अरुंधती रॉय

70819149947. रेवती कामत

70819149948. बिमल पटेल

Question Number : 38 Question Id : 70819114977 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 :

70819149949. Gujarat

70819149950. West Bengal

70819149951. Tamil Nadu

Question Number : 38 Question Id : 70819114977 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'झरोखा' या पद्धतीची खिडकी कोठे पहायला मिळते?

Options :

70819149949. गुजरात

70819149950. पश्चिम बंगाल

70819149951. तमिळनाडू

70819149952. राजस्थान

Question Number : 39 Question Id : 70819114978 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 :

70819149953. North-West side

70819149954. South-East side

70819149955. North side

70819149956. South-West side

Question Number : 39 Question Id : 70819114978 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

भारतीय उपखंडात मौसमी वारे कोणत्या दिशेने प्रवेश करतात?

Options :

70819149953. वायव्य दिशा

70819149954. आग्नेय दिशा

70819149955. उत्तर दिशा

70819149956. नैऋत्य दिशा

Question Number : 40 Question Id : 70819114979 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 :

70819149957. Bharat Bhavan in Bhopal

70819149958. LIC Building in Delhi

70819149959. Charminar in Hyderabad

70819149960. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819114979 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दिलेली कोणती भारतीय इमारत 'वसाहती वास्तुकला' पद्धत दर्शविते?

Options :

70819149957. भारत भवन भोपाल

70819149958. एल.आय.सी. इमारत दिल्ली

70819149959. चारमिनार हैदराबाद

70819149960. विक्टोरिया मेमोरियल कोलकत्ता

Question Number : 41 Question Id : 70819114980 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 :

70819149961. 420×590 (mm \times mm)

70819149962. 420×594 (mm \times mm)

70819149963. 297×420 (mm \times mm)

70819149964. 420×592 (mm \times mm)

Question Number : 41 Question Id : 70819114980 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ए-2 चित्र पत्रीकेची/कागदाची मापे काय असतात?

Options :

70819149961. 420×590 (मिमि \times मिमि)

70819149962. 420×594 (मिमि \times मिमि)

70819149963. 297×420 (मिमि \times मिमि)

70819149964. 420×592 (मिमि \times मिमि)

Question Number : 42 Question Id : 70819114981 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 :

70819149965. Chittor fort

70819149966. Jaigarh fort

70819149967. Bhangarh fort

70819149968. Amer fort

Question Number : 42 Question Id : 70819114981 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

विजय स्तंभ कोणत्या किल्ल्यावर स्थित आहे?

Options :

70819149965. चित्तौड गड

70819149966. जयगड किल्ला

70819149967. भानगड किल्ला

70819149968. अमेर गड किल्ला

Question Number : 43 Question Id : 70819114982 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 :

70819149969. Sanjay Puri

70819149970. Vikram Lall

70819149971. Ashok Lall

70819149972. C. Sompura

Question Number : 43 Question Id : 70819114982 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

प्रसिद्ध मंदिर 'अक्षरधाम' ची कोणत्या वास्तुविद्याविशारदाने रचना केली आहे?

Options :

70819149969. संजय पूरी

70819149970. विक्रम लाल

70819149971. अशोक लाल

70819149972. सि. सोमपूरा

Question Number : 44 Question Id : 70819114983 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Volume Zero' Documentary is on which Architect ?

Options :

70819149973. Charles Correa

70819149974. Richard Mier

70819149975. Jasbir Sachdev

70819149976. Ranjit Sabliki

Question Number : 44 Question Id : 70819114983 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'वॉल्युम झिरो' हा माहितीपट कोणत्या वास्तुविद्याविशारदावर आधारित आहे?

Options :

70819149973. चार्ल्स कोरिया

70819149974. रिचर्ड मियर

70819149975. जसबिर सचदेव

70819149976. रणजीत सबलिकी

Question Number : 45 Question Id : 70819114984 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Agenda 21' is declaration related with :

Options :

70819149977. Climate change

70819149978. Global warming

70819149979. Sustainable development

70819149980. Smart city

Question Number : 45 Question Id : 70819114984 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'अजेंडा-21' हे घोषणापत्र कशाशी निगडीत आहे ?

Options :

70819149977. वातावरणातील बदल

70819149978. जागतिक तापमान वाढ

70819149979. शाश्वत विकास

Question Number : 46 Question Id : 70819114985 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 :

70819149981. Karnataka

70819149982. Orissa

70819149983. Maharashtra

70819149984. Uttar Pradesh

Question Number : 46 Question Id : 70819114985 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

सोन्याच्या खाणी भारताच्या कोणत्या राज्यात स्थित आहेत ?

Options :

70819149981. कर्नाटक

70819149982. ओरिसा

70819149983. महाराष्ट्र

70819149984. उत्तर प्रदेश

Question Number : 47 Question Id : 70819114986 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 :

70819149985. North

70819149986. South

70819149987. East

70819149988. West

Question Number : 47 Question Id : 70819114986 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दक्षिण गोलार्ध मध्ये सावलीरहित प्रकाश कोणत्या दिशेने असतो ?

Options :

70819149985. उत्तर

70819149986. दक्षिण

70819149987. पूर्व

70819149988. पश्चिम

Question Number : 48 Question Id : 70819114987 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 :

70819149989. B.V. Doshi

70819149990. Laurie Baker

70819149991. Raj Rewal

70819149992. Achyut Kanvinde

Question Number : 48 Question Id : 70819114987 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

2018 साली प्रीट्झकर पारितोषिक जिंकणारे पहिले भारतीय वास्तुविद्याविशारद कोण ?

Options :

70819149989. बि.व्हि. दोशी

70819149990. लॉरी बेकर

70819149991. राज रेवाल

70819149992. अच्युत कानविंदे

Question Number : 49 Question Id : 70819114988 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Word "Bungalow" has originated from :

Options :

70819149993. Bengalurm

70819149994. Banaras

70819149995. Bengal

70819149996. Bari

Question Number : 49 Question Id : 70819114988 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'बंगलो' या शब्दाचे मूळ कोठून आले आहे ?

Options :

70819149993. बेंगालुरम

70819149994. बनारस

70819149995. बंगाल

70819149996. बारी

Question Number : 50 Question Id : 70819114989 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 :

70819149997. Laurie Baker

70819149998. Louis Kahn

70819149999. Lutyen

70819150000. Le Corbusier

Question Number : 50 Question Id : 70819114989 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दिलेल्या कोणत्या वास्तुकाराने आय.आय.एम. अहमदाबाद ची रचना केली आहे ?

Options :

70819149997. लॉरी बेकर

70819149998. लूई कान

70819149999. ल्युटेन

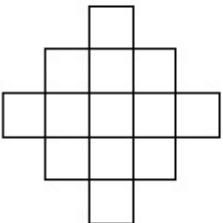
70819150000. ली कारबुसीयर

Question Number : 51 Question Id : 70819114990 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 :

70819150001. 14

70819150002. 13

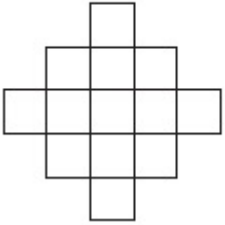
70819150003. 15

70819150004. 18

**Question Number : 51 Question Id : 70819114990 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

खाली दिलेल्या आकृतीमध्ये किती चौरस आहेत ?



Options :

70819150001. 14

70819150002. 13

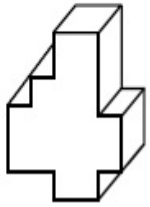
70819150003. 15

70819150004. 18

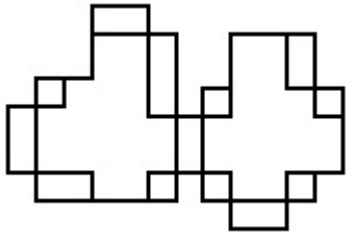
**Question Number : 52 Question Id : 70819114991 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

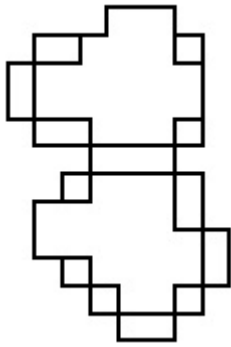
A drawing is provided with all the folds to construct the following three Dimensional object. Select the correct one.



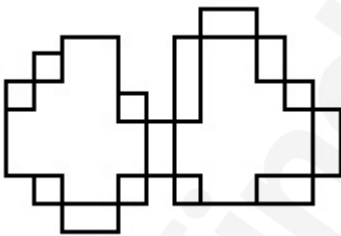
Options :



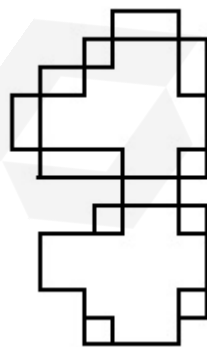
70819150005.



70819150006.



70819150007.



70819150008.

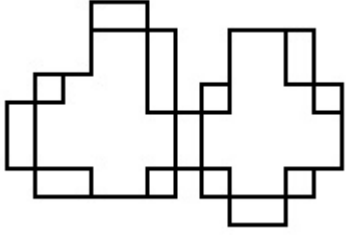
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

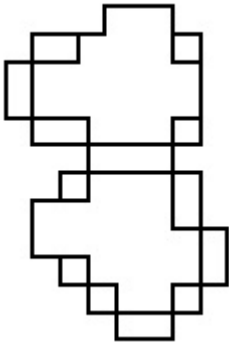
खाली दिलेली त्रिपरिमाणित वस्तु (3-डी) बनविण्यासाठी लागणारी योग्य घडी दर्शविणारी आकृती निवडा.



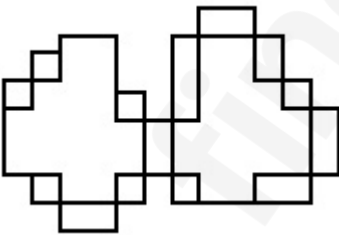
Options :



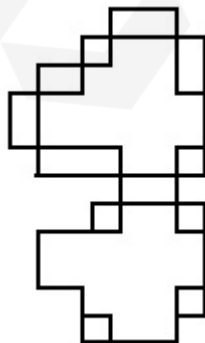
70819150005.



70819150006.



70819150007.



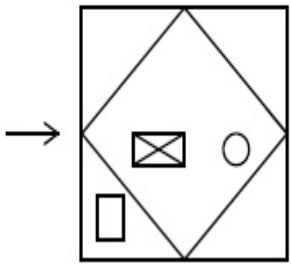
70819150008.

Question Number : 53 Question Id : 70819114992 Question Type : MCQ Option Shuffling : Yes

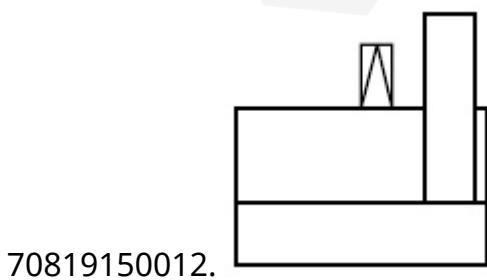
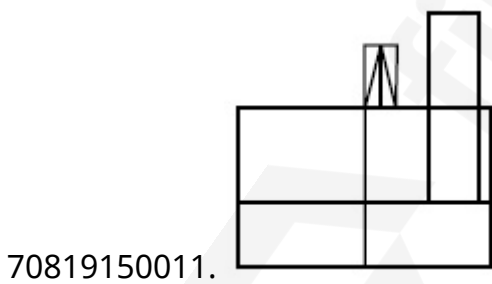
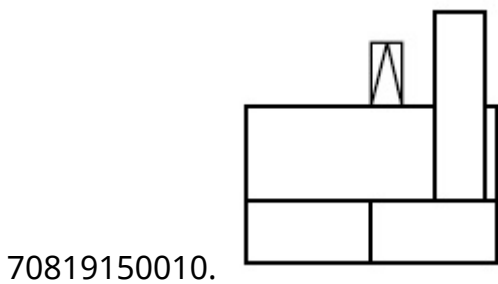
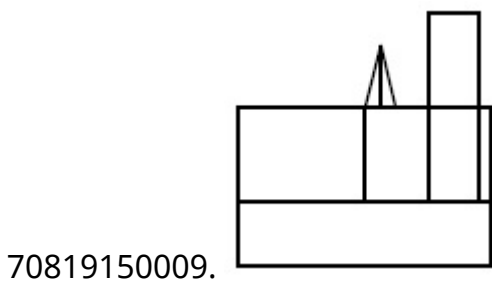
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

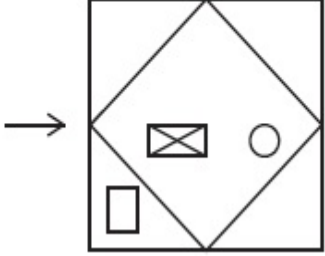


Question Number : 53 Question Id : 70819114992 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

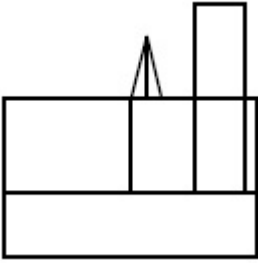
Correct Marks : 4 Wrong Marks : 1

दिलेल्या नकाशाकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन उत्तर आकृती मधून निवडा.

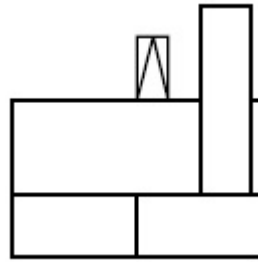


Options :

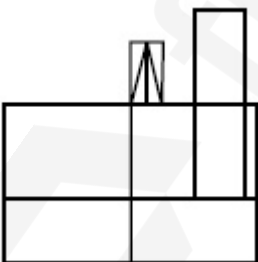
70819150009.



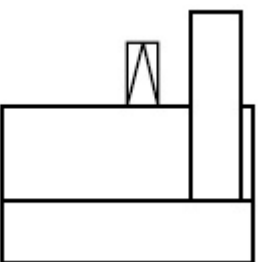
70819150010.



70819150011.



70819150012.

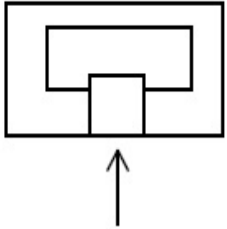


Question Number : 54 Question Id : 70819114993 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

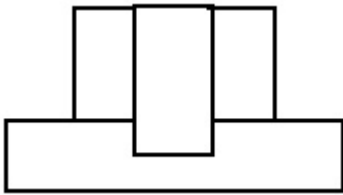
Correct Marks : 4 Wrong Marks : 1

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

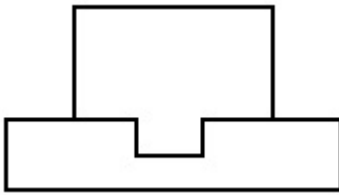


Options :

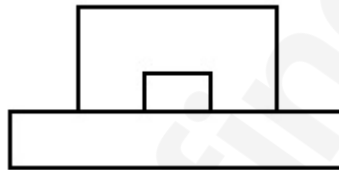
70819150013.



70819150014.



70819150015.



70819150016.

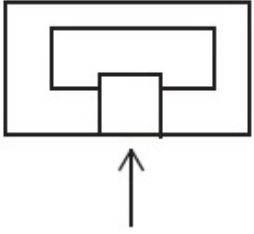


Question Number : 54 Question Id : 70819114993 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

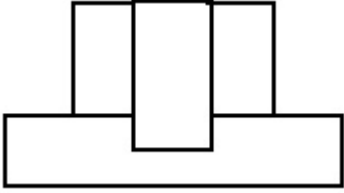
Correct Marks : 4 Wrong Marks : 1

दिलेल्या नकाशाकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन उत्तर आकृती निवडा.

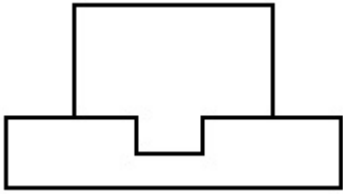


Options :

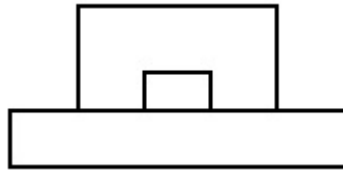
70819150013.



70819150014.



70819150015.



70819150016.

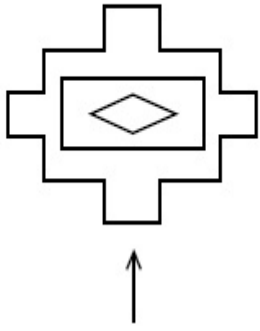


Question Number : 55 Question Id : 70819114994 Question Type : MCQ Option Shuffling : Yes

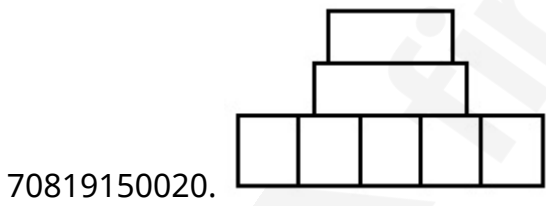
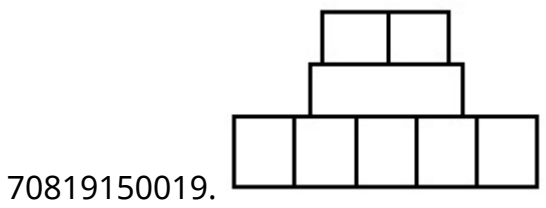
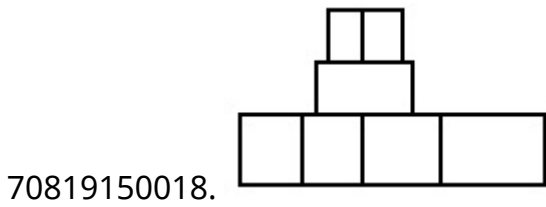
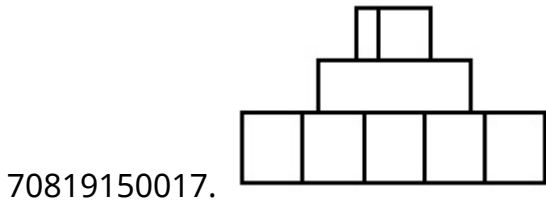
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

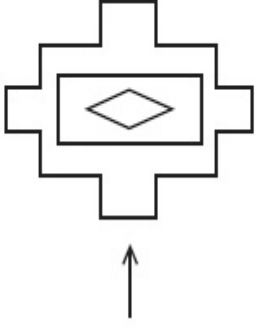


Question Number : 55 Question Id : 70819114994 Question Type : MCQ Option Shuffling : Yes

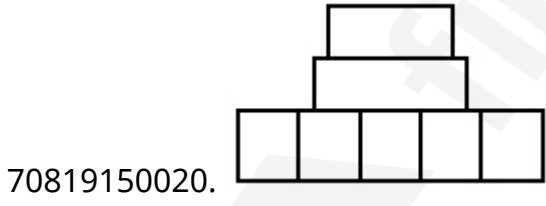
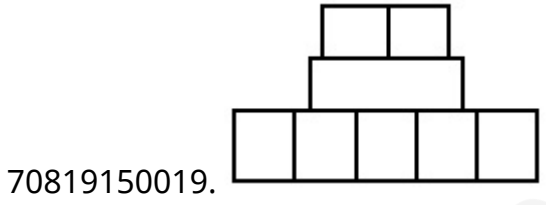
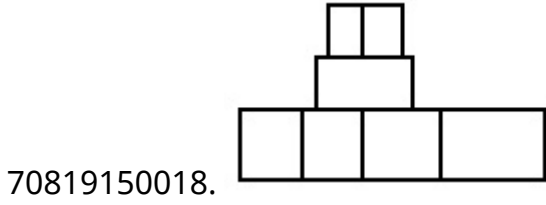
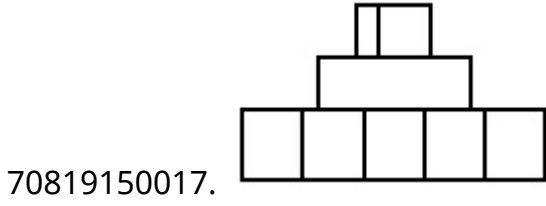
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दिलेला नकाशा हा एका वस्तुचे वरील दृश्य दर्शवितो. बाणाच्या दिशेने पहाता मिळणारे योग्य चारखण उत्तर आकृती मधून निवडा.



Options :

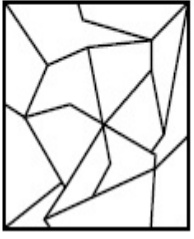


Question Number : 56 Question Id : 70819114995 Question Type : MCQ Option Shuffling : Yes


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 :

70819150021. 

70819150022. 

70819150023. 

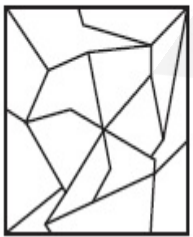
70819150024. 

Question Number : 56 Question Id : 70819114995 Question Type : MCQ Option Shuffling : Yes


Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

पर्यायामधे दर्शविलेली एक आकृती ही त्याच दिशेने व समान आकाराने प्रश्न आकृतीमध्ये लपली आहे. योग्य पर्याय निवडा.



Options :

70819150021. 

70819150022.



70819150023.



70819150024.

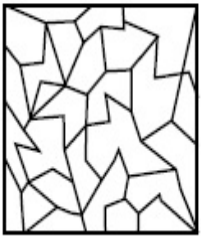


Question Number : 57 Question Id : 70819114996 Question Type : MCQ Option Shuffling : Yes

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 :

70819150025.



70819150026.



70819150027.



70819150028.

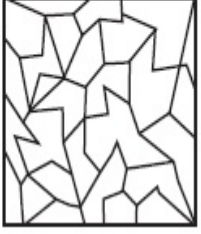


Question Number : 57 Question Id : 70819114996 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

पर्यायामध्ये दर्शविलेली एक आकृती ही त्याच दिशेने व समान आकाराने प्रश्न आकृतीमध्ये दर्शविली आहे. योग्य पर्याय निवडा.



Options :

70819150025.

70819150026.

70819150027.

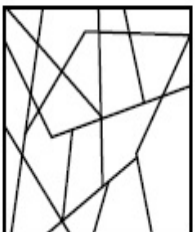
70819150028.

Question Number : 58 Question Id : 70819114997 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 :

70819150029.



70819150030.



70819150031.



70819150032.

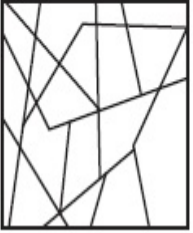


Question Number : 58 Question Id : 70819114997 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

पर्यायामध्ये दर्शविलेली एक आकृती ही त्याच दिशेने व समान आकाराने प्रश्न आकृतीमध्ये दर्शविलेली आहे. योग्य पर्याय निवडा.



Options :

70819150029.



70819150030.



70819150031.



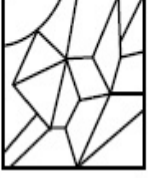
70819150032.



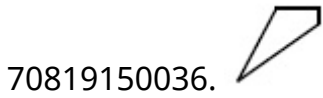
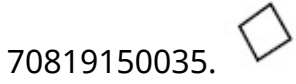
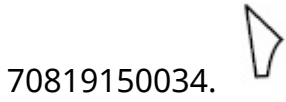
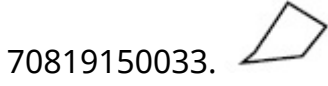
Question Number : 59 Question Id : 70819114998 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



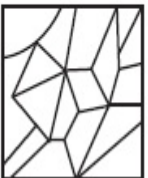
Options :




Question Number : 59 Question Id : 70819114998 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No


Correct Marks : 4 Wrong Marks : 1


पर्याया मध्ये दर्शवलेली आकृती ही त्याच दिशेने व समान आकाराने प्रश्न आकृती मध्ये दर्शविली आहे. योग्य पर्याय निवडा.




Options :

70819150033. 

70819150034. 

70819150035. 

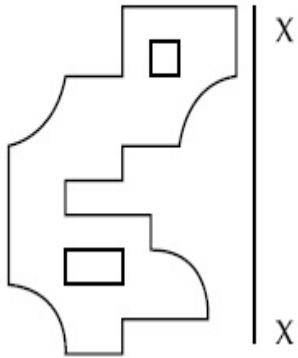
70819150036. 

Question Number : 60 Question Id : 70819114999 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 ?

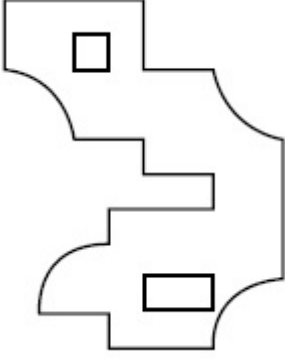
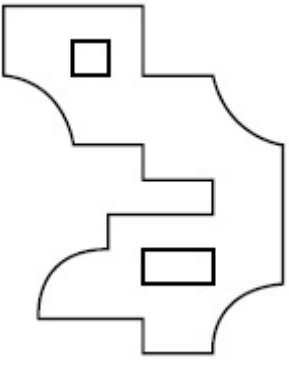


Options :

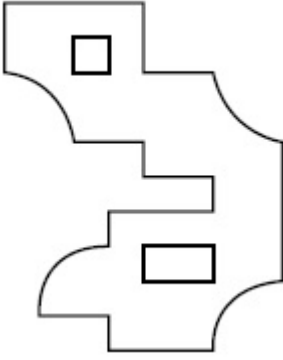


70819150037.

70819150038.



70819150039.



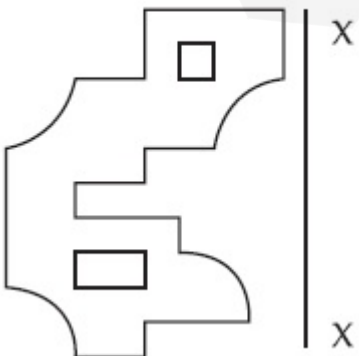
70819150040.

Question Number : 60 Question Id : 70819114999 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

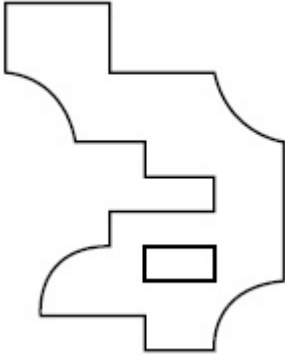
Correct Marks : 4 Wrong Marks : 1

X-X अक्ष गृहीत धरून प्रश्न आकृतीचे योग्य प्रतिबिंब ओळखा?

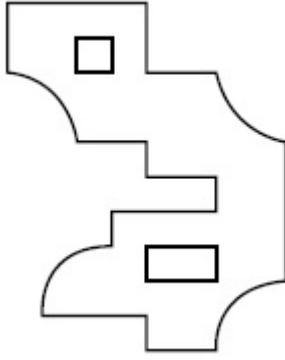


Options :

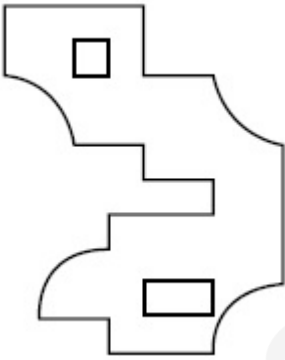
70819150037.



70819150038.



70819150039.

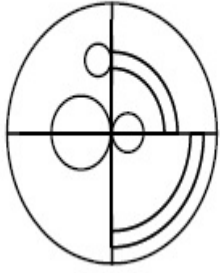


70819150040.



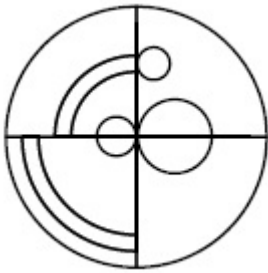
Correct Marks : 4 Wrong Marks : 1

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

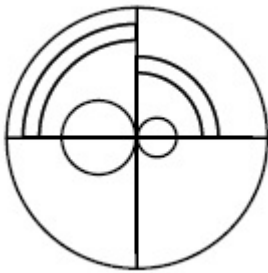


X ——— X

Options :



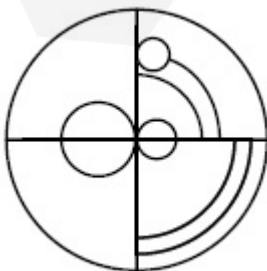
70819150041.



70819150042.



70819150043.



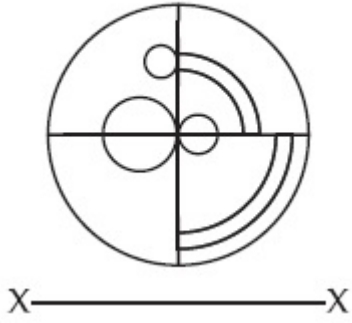
70819150044.

Question Number : 61 Question Id : 70819115000 Question Type : MCQ Option Shuffling : Yes

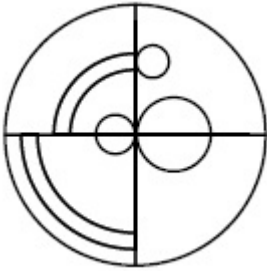
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

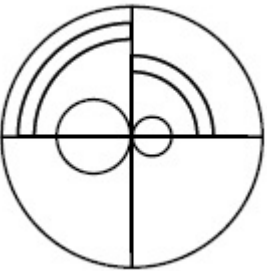
X-X अक्ष गृहीत धरून प्रश्न आकृतीचे योग्य प्रतिबिंब ओळखा.



Options :



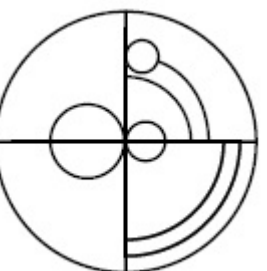
70819150041.



70819150042.



70819150043.

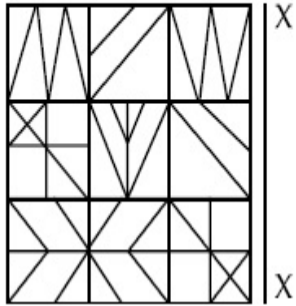


70819150044.

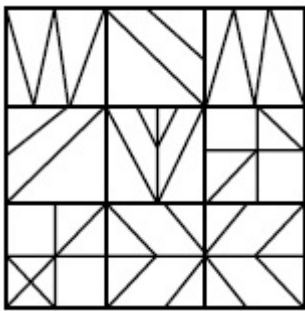
Question Number : 62 Question Id : 70819115001 Question Type : MCQ Option Shuffling : Yes
 Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

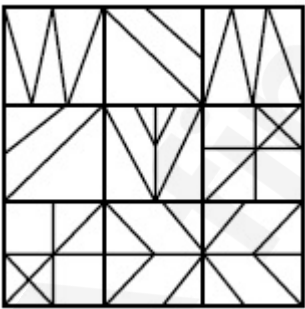
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



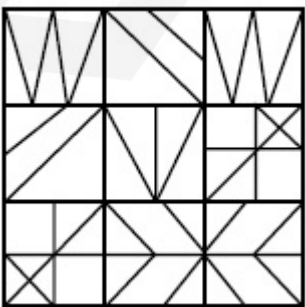
Options :



70819150045.

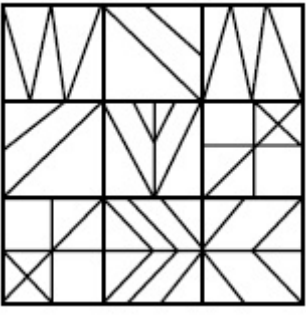


70819150046.



70819150047.

70819150048.

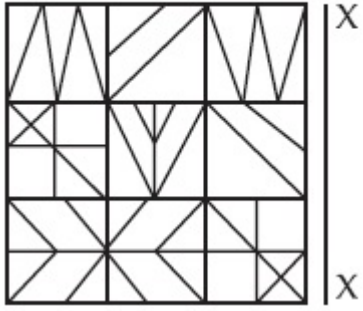


Question Number : 62 Question Id : 70819115001 Question Type : MCQ Option Shuffling : Yes

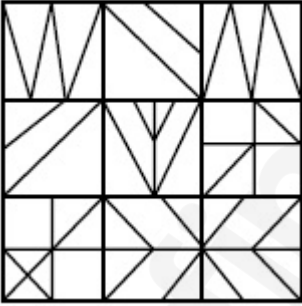
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

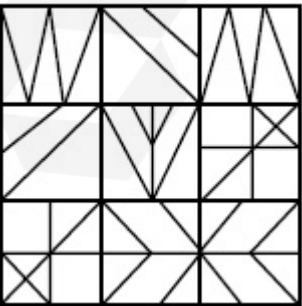
X-X अक्ष गृहीत धरून प्रश्न आकृतीचे योग्य प्रतिबिंब ओळखा.



Options :

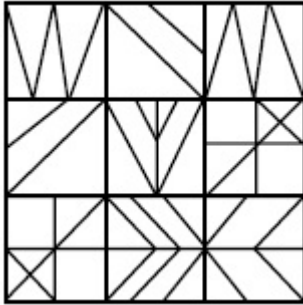
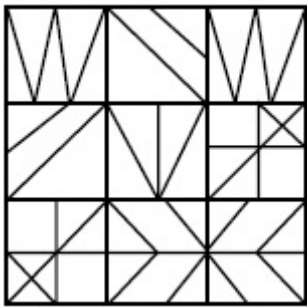


70819150045.



70819150046.

70819150047.



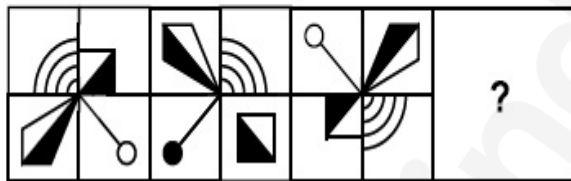
70819150048.

Question Number : 63 Question Id : 70819115002 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 :



70819150049.



70819150050.

70819150051.



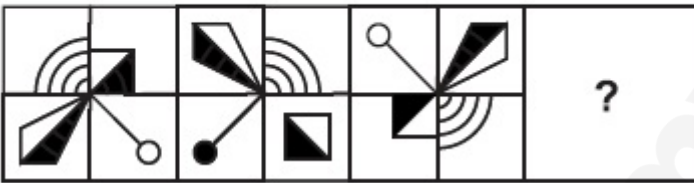
70819150052.

Question Number : 63 Question Id : 70819115002 Question Type : MCQ Option Shuffling : Yes

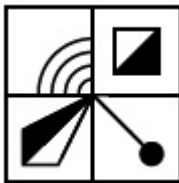
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

कोणती उत्तर आकृती ही दिलेल्या प्रश्न आकृतीची क्रमवारी पूर्ण करते?



Options :



70819150049.



70819150050.



70819150051.

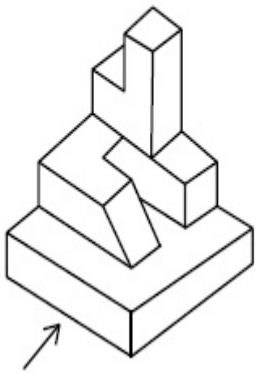
70819150052.



Question Number : 64 Question Id : 70819115003 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

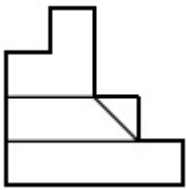
Correct Marks : 4 Wrong Marks : 1

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

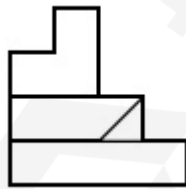


Options :

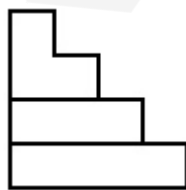
70819150053.



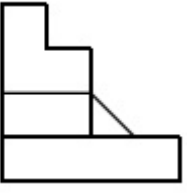
70819150054.



70819150055.



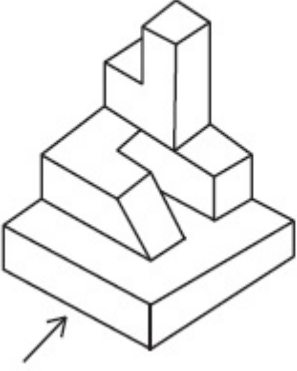
70819150056.



Question Number : 64 Question Id : 70819115003 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

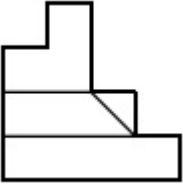
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे आरेखन ओळखा.



Options :

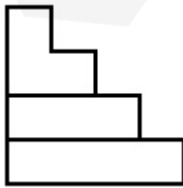
70819150053.



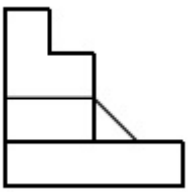
70819150054.



70819150055.



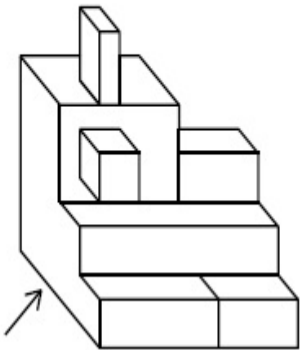
70819150056.



Question Number : 65 Question Id : 70819115004 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

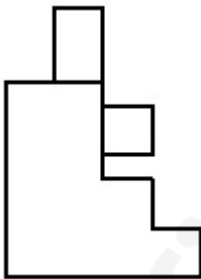
Correct Marks : 4 Wrong Marks : 1

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

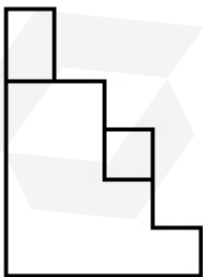


Options :

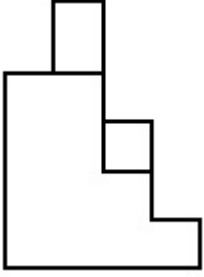
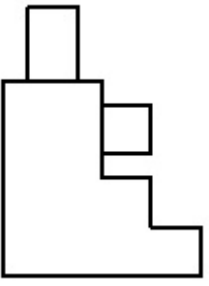
70819150057.



70819150058.



70819150059.



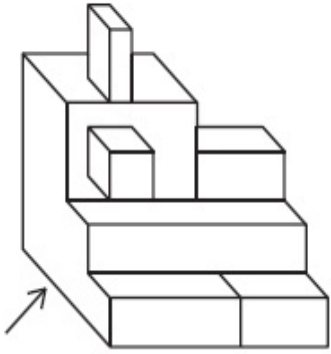
70819150060.

Question Number : 65 Question Id : 70819115004 Question Type : MCQ Option Shuffling : Yes

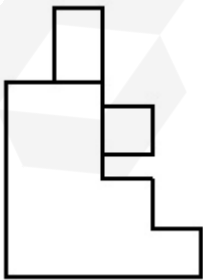
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.

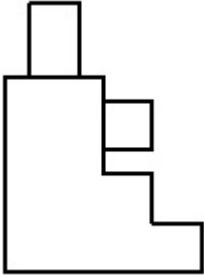
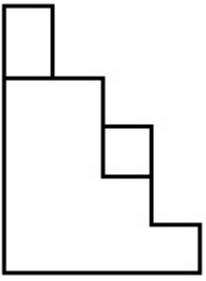


Options :

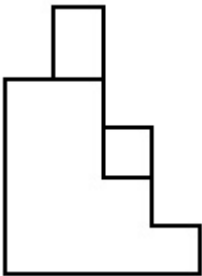


70819150057.

70819150058.



70819150059.

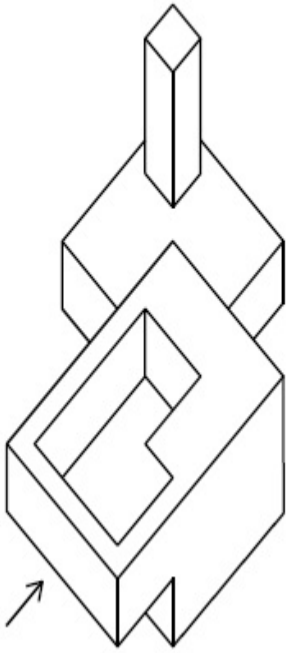


70819150060.

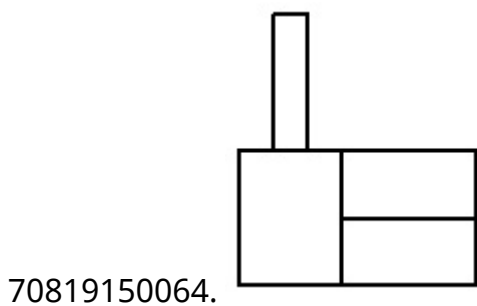
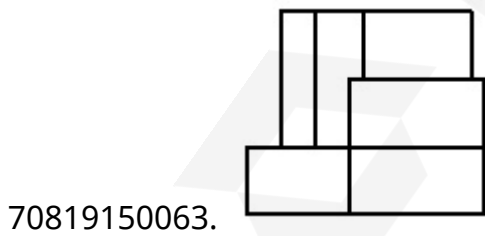
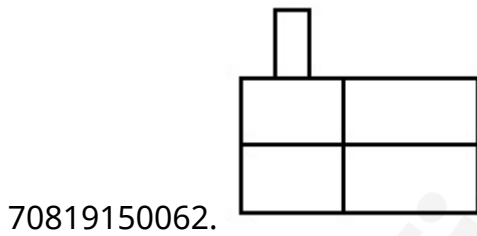
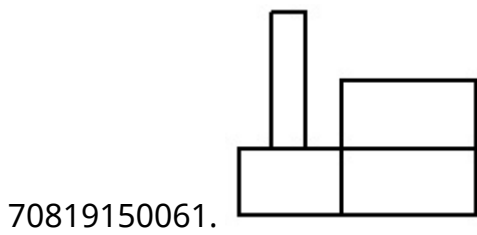
Question Number : 66 Question Id : 70819115005 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1



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



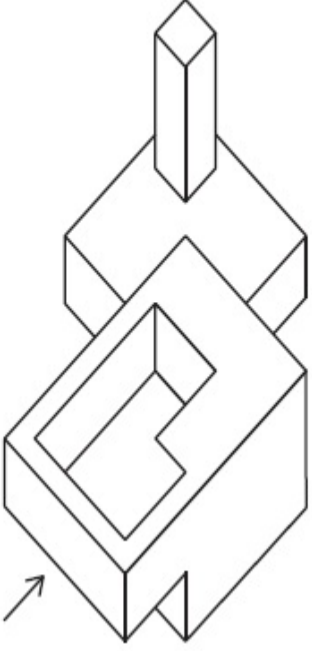
Options :



Question Number : 66 Question Id : 70819115005 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

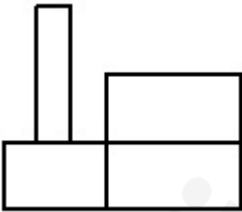
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.

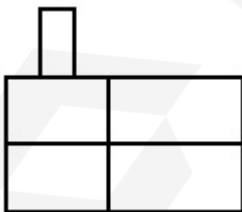


Options :

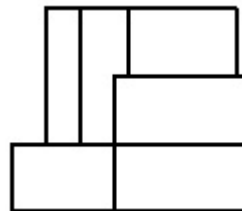
70819150061.



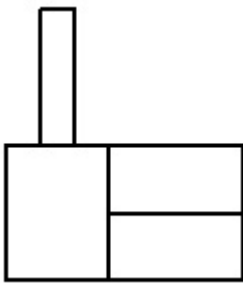
70819150062.



70819150063.



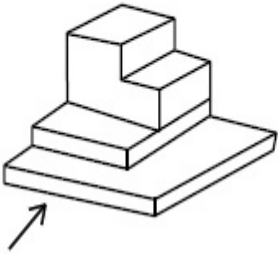
70819150064.



Question Number : 67 Question Id : 70819115006 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

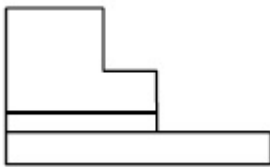
Correct Marks : 4 Wrong Marks : 1

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



Options :

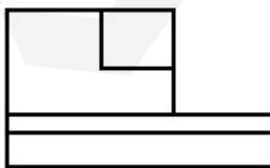
70819150065.



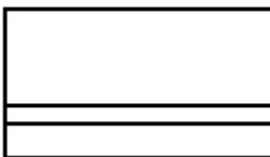
70819150066.



70819150067.



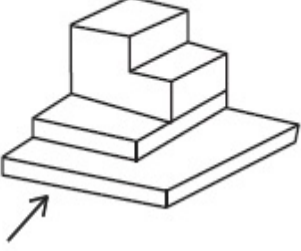
70819150068.



Question Number : 67 Question Id : 70819115006 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

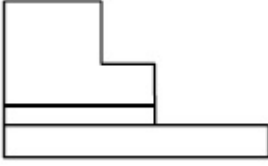
Correct Marks : 4 Wrong Marks : 1

दिलेल्या (3-डी) त्रिपरिमाणित आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.



Options :

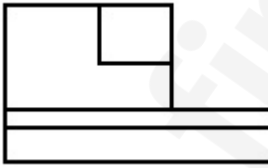
70819150065.



70819150066.



70819150067.



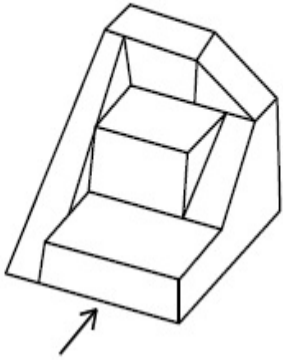
70819150068.



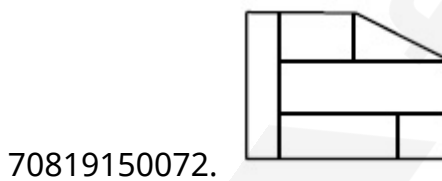
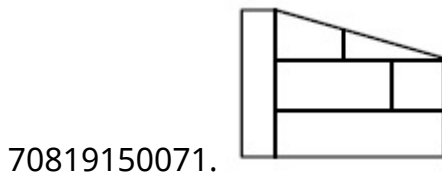
Question Number : 68 Question Id : 70819115007 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

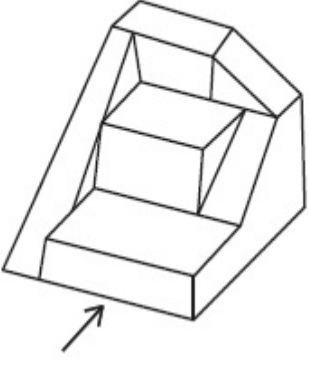


Question Number : 68 Question Id : 70819115007 Question Type : MCQ Option Shuffling : Yes

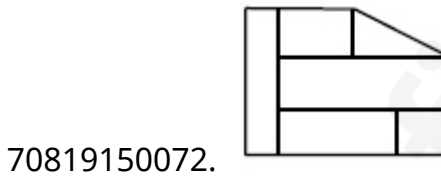
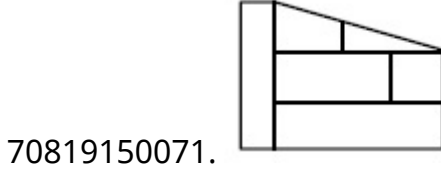
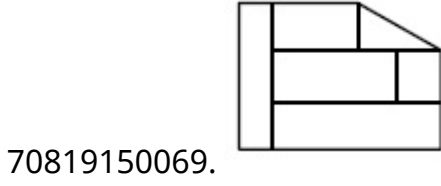
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.



Options :

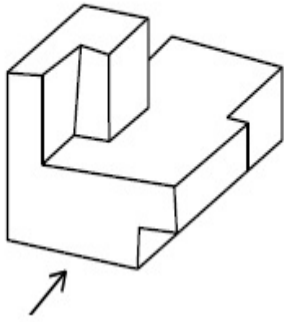


Question Number : 69 Question Id : 70819115008 Question Type : MCQ Option Shuffling : Yes

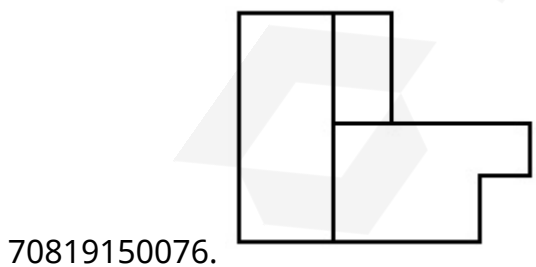
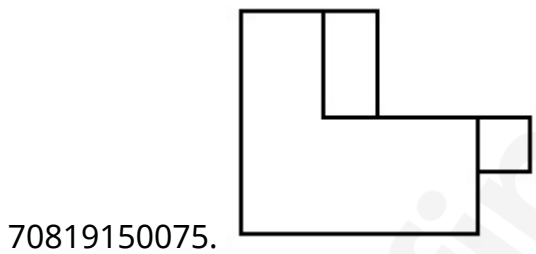
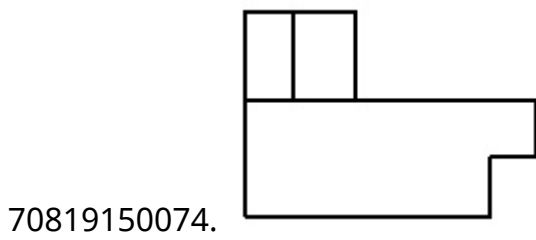
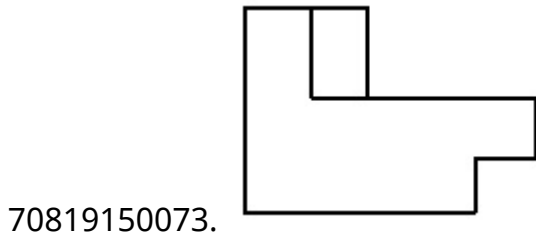
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

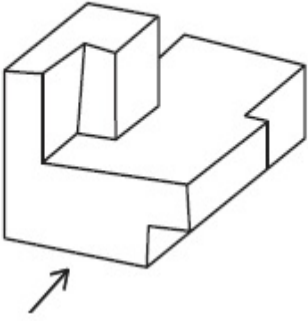


Question Number : 69 Question Id : 70819115008 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

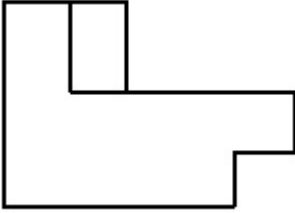
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आकृती निवडा.

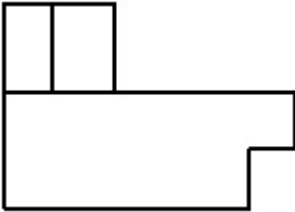


Options :

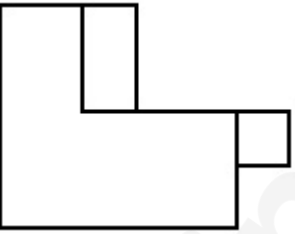
70819150073.



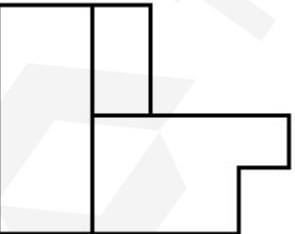
70819150074.



70819150075.

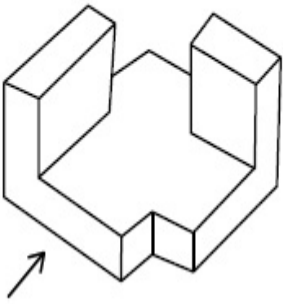


70819150076.

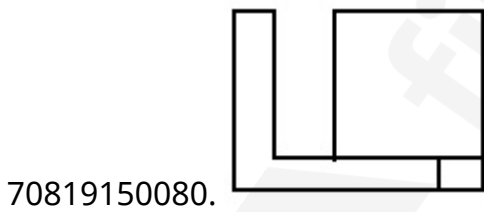
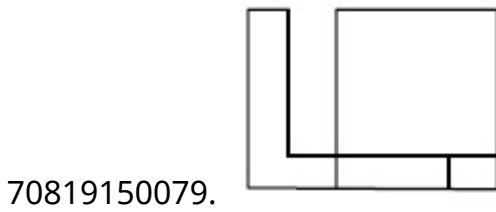
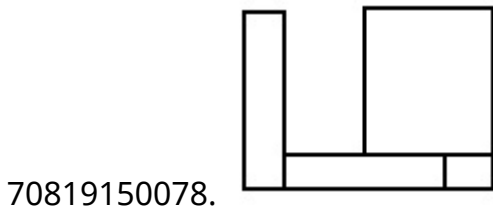
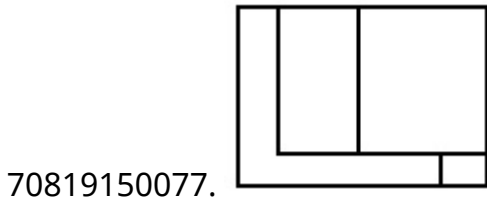


Question Number : 70 Question Id : 70819115009 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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



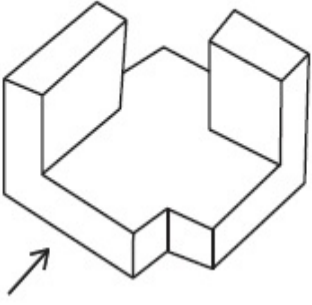
Options :



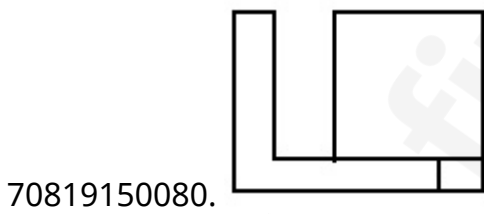
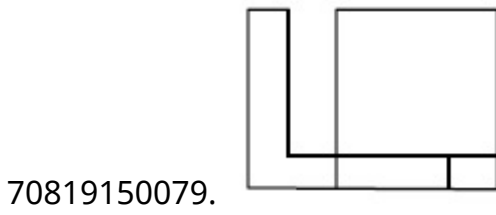
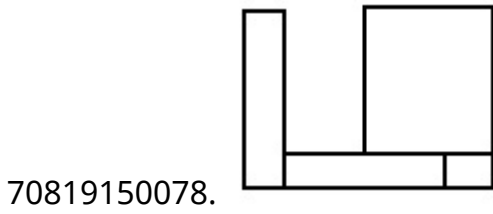
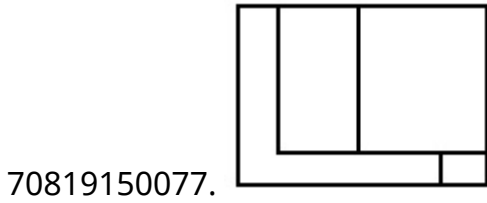
Question Number : 70 Question Id : 70819115009 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1



Options :

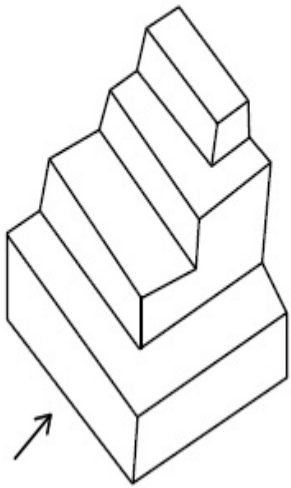


Question Number : 71 Question Id : 70819115010 Question Type : MCQ Option Shuffling : Yes

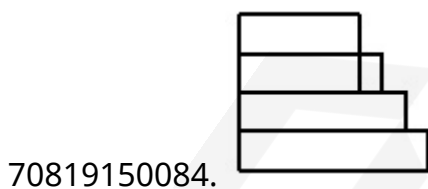
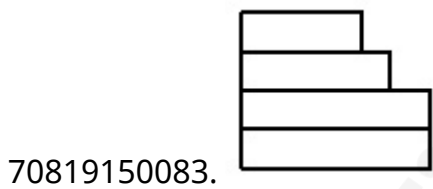
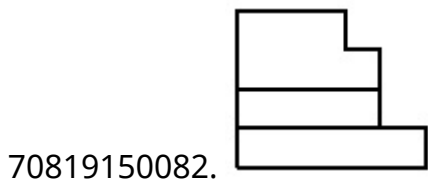
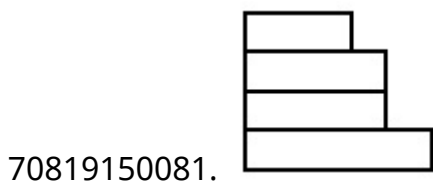
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



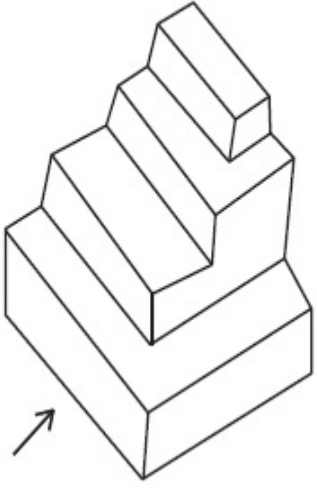
Options :



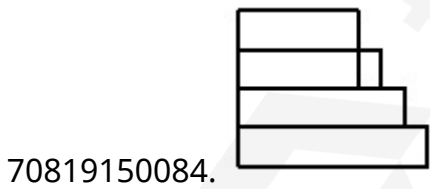
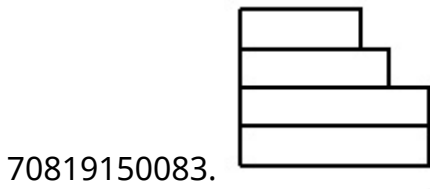
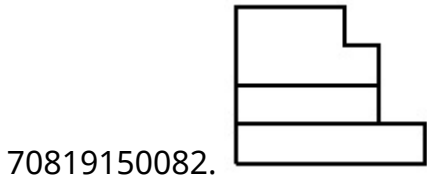
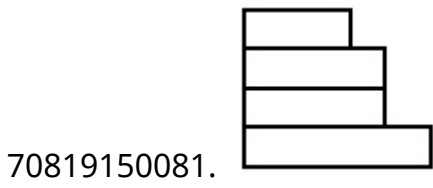
Question Number : 71 Question Id : 70819115010 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1



Options :

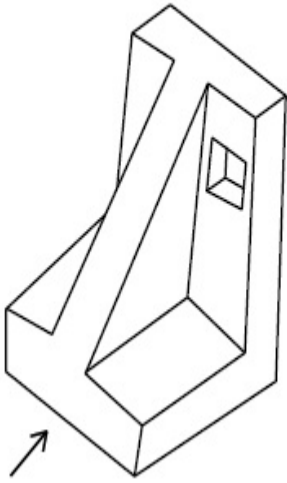


Question Number : 72 Question Id : 70819115011 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

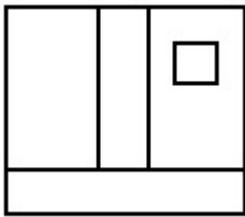
Correct Marks : 4 Wrong Marks : 1

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

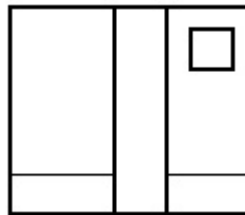


Options :

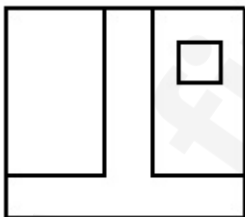
70819150085.



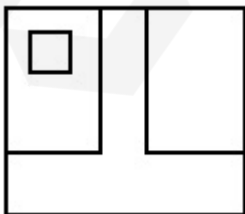
70819150086.



70819150087.



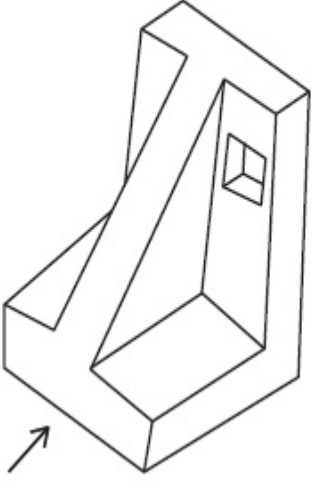
70819150088.



Is Question Mandatory : No

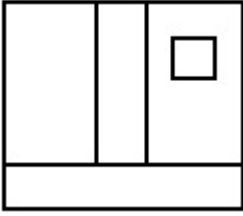
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.

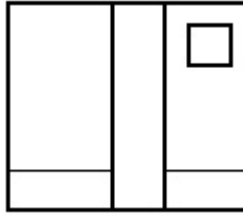


Options :

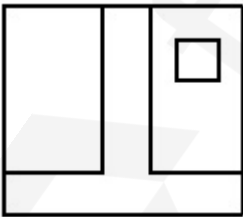
70819150085.



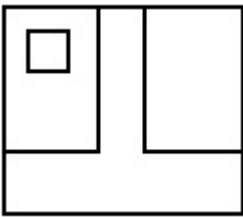
70819150086.



70819150087.



70819150088.

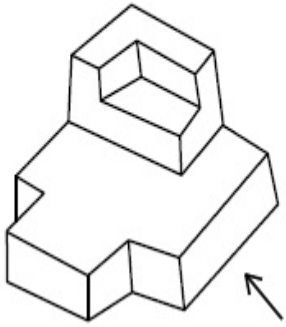


Question Number : 73 Question Id : 70819115012 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

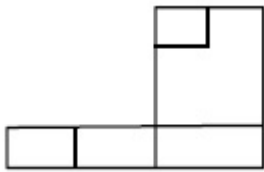
Correct Marks : 4 Wrong Marks : 1

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

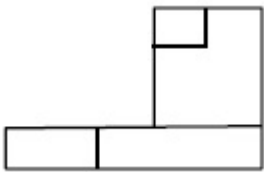


Options :

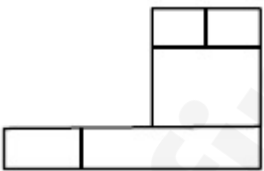
70819150089.



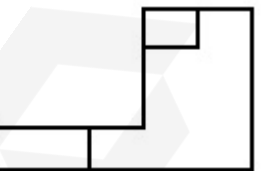
70819150090.



70819150091.



70819150092.

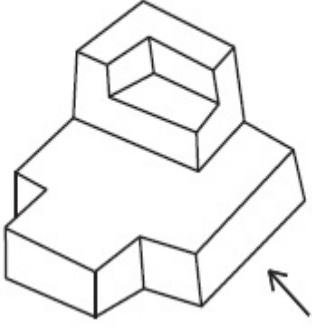


Question Number : 73 Question Id : 70819115012 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

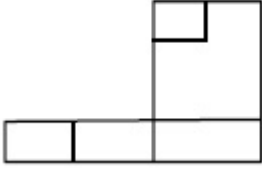
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.

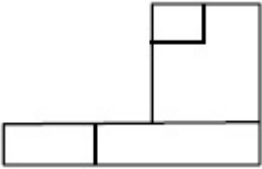


Options :

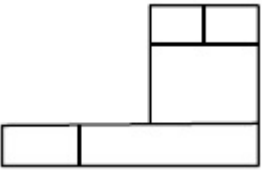
70819150089.



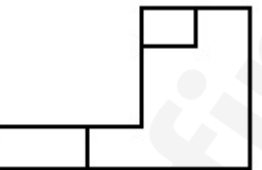
70819150090.



70819150091.



70819150092.

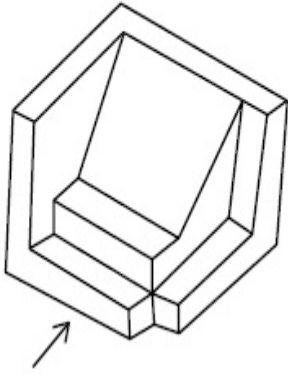


Question Number : 74 Question Id : 70819115013 Question Type : MCQ Option Shuffling : Yes

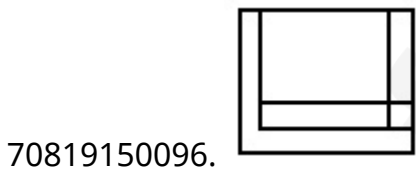
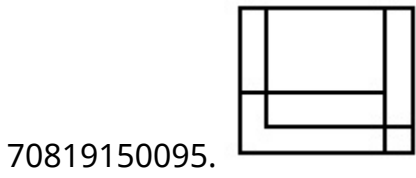
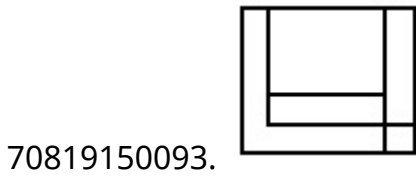
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



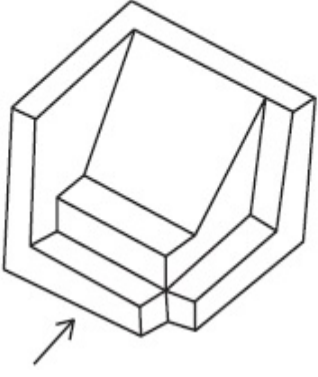
Options :



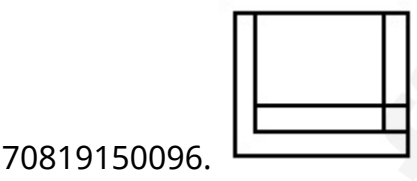
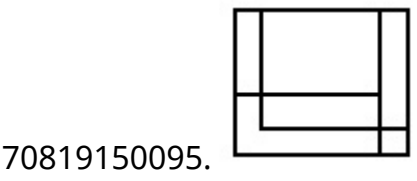
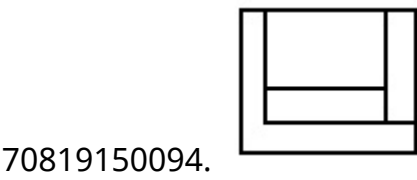
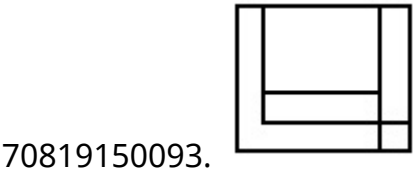
Question Number : 74 Question Id : 70819115013 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

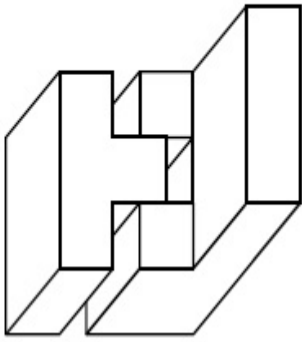


Options :

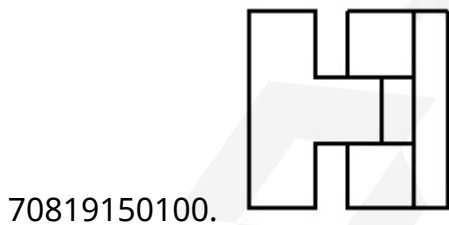
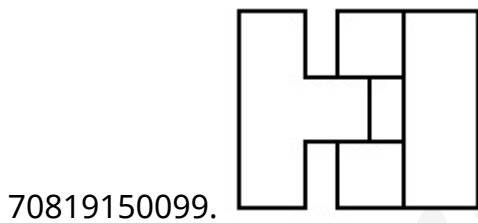
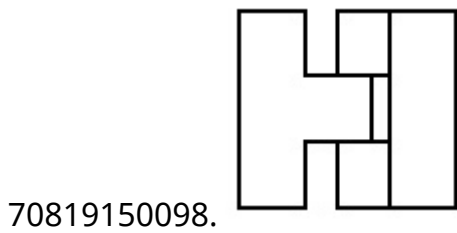
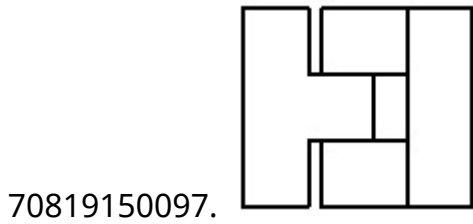


Question Number : 75 Question Id : 70819115014 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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



Options :

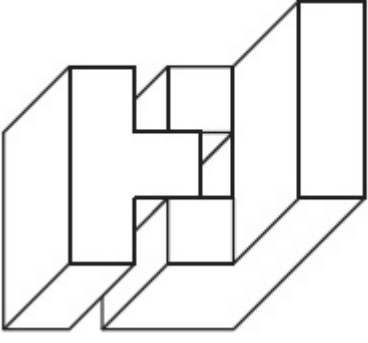


Question Number : 75 Question Id : 70819115014 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

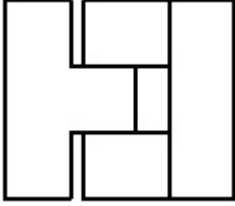
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीचा योग्य नकाशा उत्तर आकृती मधून निवडा.

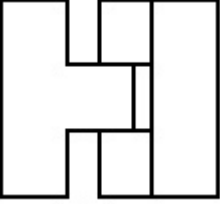


Options :

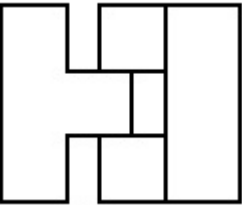
70819150097.



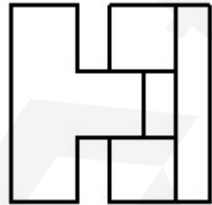
70819150098.



70819150099.



70819150100.

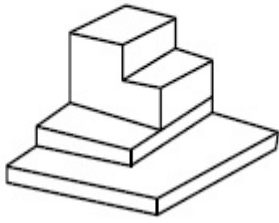


Question Number : 76 Question Id : 70819115015 Question Type : MCQ Option Shuffling : Yes

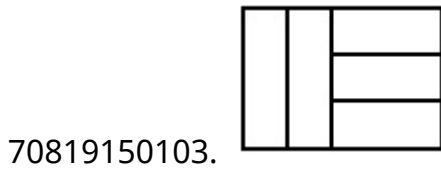
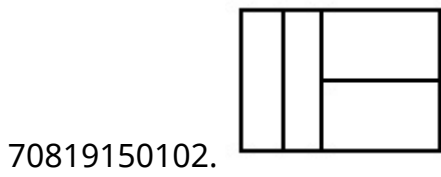
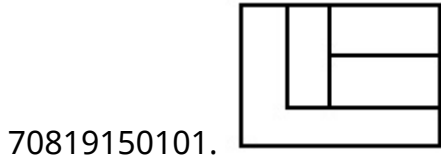
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

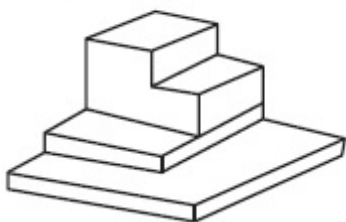


Question Number : 76 Question Id : 70819115015 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

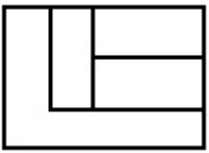
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीचा योग्य नकाशा उत्तर आकृती मधून निवडा.



Options :

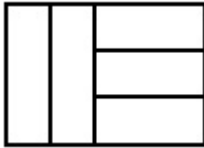
70819150101.



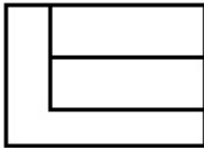
70819150102.



70819150103.



70819150104.

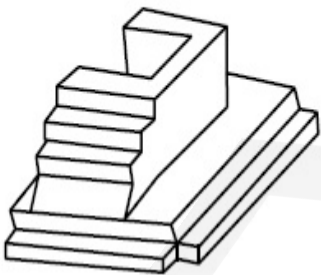


Question Number : 77 Question Id : 70819115016 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

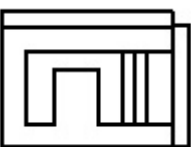
Correct Marks : 4 Wrong Marks : 1

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

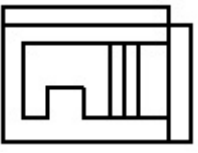


Options :

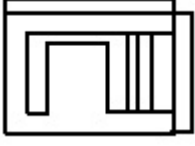
70819150105.



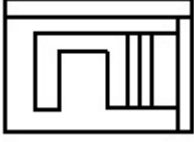
70819150106.



70819150107.



70819150108.

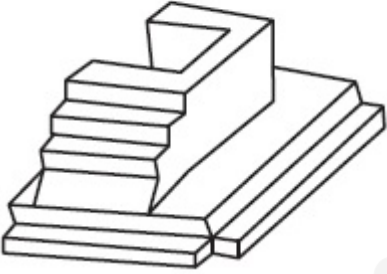


Question Number : 77 Question Id : 70819115016 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

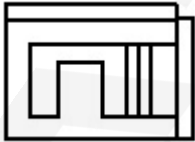
Correct Marks : 4 Wrong Marks : 1

दिलेल्या त्रिपरिमाणित (3-डी) आकृतीचा योग्य नकाशा उत्तर आकृती मधून ओळखा.

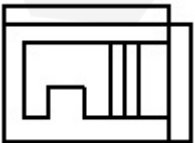


Options :

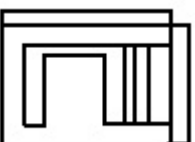
70819150105.



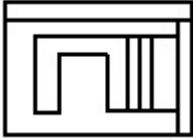
70819150106.



70819150107.



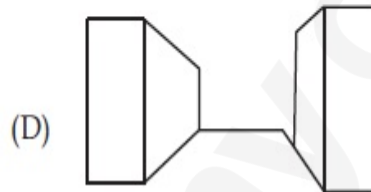
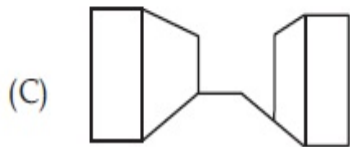
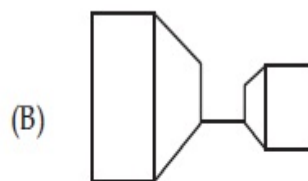
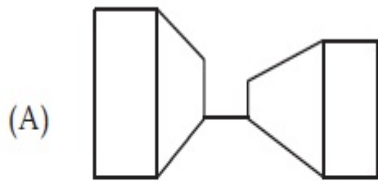
70819150108.



**Question Number : 78 Question Id : 70819115017 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 :

70819150109. (A) and (B)

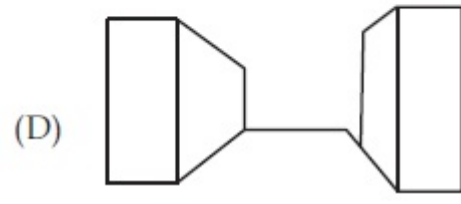
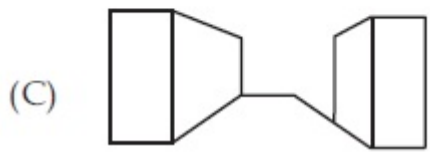
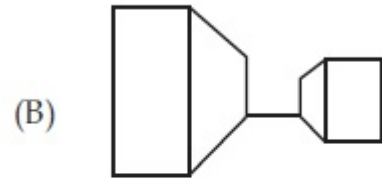
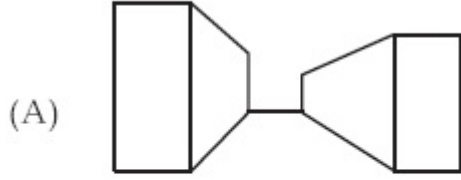
70819150110. (B) and (C)

70819150111. (C) and (D)

70819150112. (D) and (A)

**Question Number : 78 Question Id : 70819115017 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1



Options :

70819150109. (A) आणि (B)

70819150110. (B) आणि (C)

70819150111. (C) आणि (D)

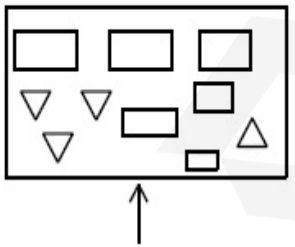
70819150112. (D) आणि (A)

Question Number : 79 Question Id : 70819115018 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

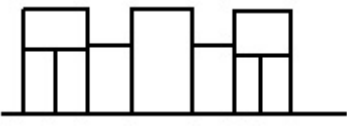
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



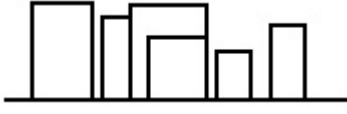
Options :



70819150114.



70819150115.



70819150116.

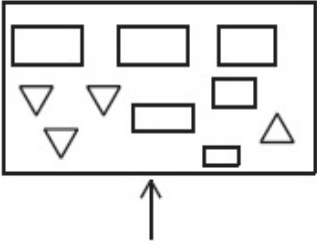


Question Number : 79 Question Id : 7081915018 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दिलेल्या प्रश्न आकृती मधील नकाशाकडे बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन निवडा.



Options :

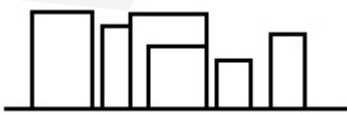
70819150113.



70819150114.



70819150115.



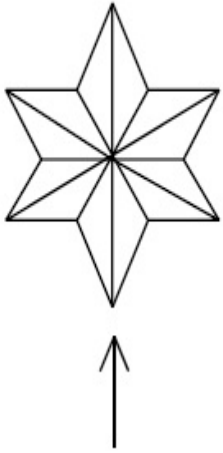
70819150116.



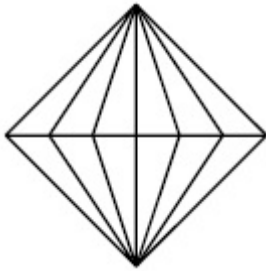
Question Number : 80 Question Id : 70819115019 Question Type : MCQ Option Shuffling : Yes
 Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

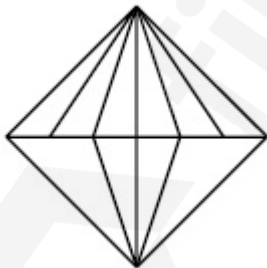
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



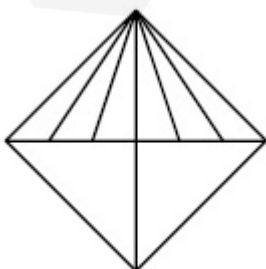
Options :



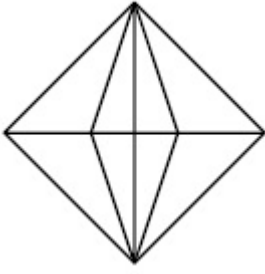
70819150117.



70819150118.



70819150119.



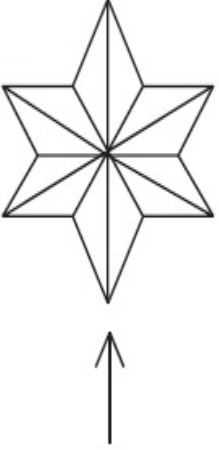
70819150120.

Question Number : 80 Question Id : 70819115019 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

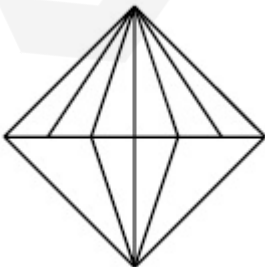
दिलेली प्रश्न आकृती ही एक नकाशा/वरील दृश्य दर्शविते. बाणाच्या दिशेने पहाता मिळणारे योग्य आरेखन ओळखा.



Options :

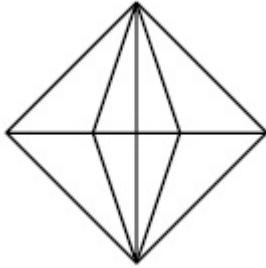
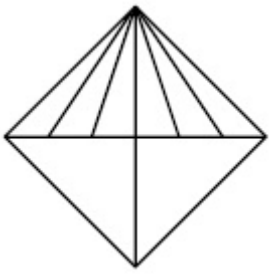


70819150117.



70819150118.

70819150119.



70819150120.

Planning

Section Id :	708191543
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 :	708191823
Question Shuffling Allowed :	Yes

Question Number : 81 Question Id : 70819115020 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 :

70819150121. Automobile

70819150122. Clothing and Textile

70819150123. Printing

70819150124. Iron and Steel

Question Number : 81 Question Id : 70819115020 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खालीलपैकी कोणता उद्योग पहिल्या महायुद्धापूर्वी लंडनमध्ये उपलब्ध नव्हता ?

Options :

70819150121. वाहन

70819150122. कापड आणि कपडे

70819150123. छपाई

70819150124. लोह आणि पोलाद

Question Number : 82 Question Id : 70819115021 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 :

70819150125. Nitrogen

70819150126. Greenhouse gas

70819150127. Ozone

70819150128. Suspended Particulate Matter (SPM)

Question Number : 82 Question Id : 70819115021 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

“कार्बन फुटप्रिंट” म्हणजे वातावरणात सोडल्या जाणाऱ्या _____ चे प्रमाण.

Options :

70819150125. नायट्रोजन

70819150126. ग्रीनहाऊस गॅस

70819150127. ओझोन

70819150128. सस्पेंडेड पार्टिक्युलेट मॅटर (एस.पी.एम.)

Question Number : 83 Question Id : 70819115022 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 :

70819150129. E → D → B → A → C

70819150130. E → B → C → D → A

70819150131. C → A → B → D → E

70819150132. A → D → C → B → E

Question Number : 83 Question Id : 70819115022 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

- A. कोडाईकॅनाल
- B. कुल्लु
- C. माऊंट अबु
- D. पांचगणी
- E. पहलगाम

वरील उंच हवेची ठिकाणे दक्षिण भारत ते उत्तर भारत या क्रमाने लावा. खालीलपैकी योग्य पर्याय निवडा :

Options :

70819150129. E → D → B → A → C

70819150130. E → B → C → D → A

70819150131. C → A → B → D → E

70819150132. $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

**Question Number : 84 Question Id : 70819115023 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 :

70819150133. Mo HUA

70819150134. NITI Aayog

70819150135. NIUA

70819150136. PFI

**Question Number : 84 Question Id : 70819115023 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

भारतामध्ये 'रचना आयोग' (प्लॅनिंग कमिशन) च्या ऐवजी कोणती संस्था स्थापलेली आहे?

Options :

70819150133. एम.ओ.एच.यु.ए. (MoHUA)

70819150134. नीती आयोग

70819150135. एन.आय.यु.ए. (NIUA)

70819150136. पी.एफ.आय. (PFI)

Question Number : 85 Question Id : 70819115024 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 :

70819150137. 2005

70819150138. 2007

70819150139. 2009

70819150140. 2011

Question Number : 85 Question Id : 70819115024 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

भारतात 'विशेष आर्थिक विभागाचा' (स्पेशल ईकॉनॉमिक झोन) कायदा केव्हा केला गेला ?

Options :

70819150137. 2005

70819150138. 2007

70819150139. 2009

70819150140. 2011

Question Number : 86 Question Id : 70819115025 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 :

70819150141. National Horticulture Association of India.
70819150142. National Heritage Authority of India.
70819150143. National Hydroelectric Power Authority of India.
70819150144. National Highway Authority of India.

Question Number : 86 Question Id : 70819115025 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'एन्.एच.ए.आय.' चे दीर्घस्वरूप काय आहे ? खालीलपैकी योग्य पर्याय निवडा.

Options :

70819150141. नॅशनल हॉर्टीकल्चर असोसिएशन ऑफ इंडीया
70819150142. नॅशनल हेरीटेज ऑथोरिटी ऑफ इंडीया
70819150143. नॅशनल हायड्रोइलेक्ट्रिक पॉवर अॅथोरिटी ऑफ इंडीया
70819150144. नॅशनल हाइवे अॅथोरिटी ऑफ इंडीया

Question Number : 87 Question Id : 70819115026 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 :

70819150145. 15

70819150146. 16

70819150147. 17

70819150148. 18

Question Number : 87 Question Id : 70819115026 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

संयुक्त राष्ट्रांनी किती 'शाश्वत विकास ध्येय' अवलंबली आहेत ?

Options :

70819150145. 15

70819150146. 16

70819150147. 17

70819150148. 18

Question Number : 88 Question Id : 70819115027 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 :

70819150149. 1947

70819150150. 1948

70819150151. 1950

70819150152. 1949

Question Number : 88 Question Id : 70819115027 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

कोणत्या सालात, भारत सरकारचे प्रथम औद्योगिक धोरण घोषित झाले ?

Options :

70819150149. 1947

70819150150. 1948

70819150151. 1950

70819150152. 1949

Question Number : 89 Question Id : 70819115028 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 :

70819150153. superblocks

70819150154. radial pattern

70819150155. high rise development

70819150156. waterbased transport

Question Number : 89 Question Id : 70819115028 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

स्पेनमधील बार्सिलोना शहराची रचना कशासाठी प्रसिद्ध आहे ?

Options :

70819150153. महाखंड (सुपरब्लॉक्स)

70819150154. अरीय (रेडीयल) संरचना

70819150155. अतिउंच इमारती

70819150156. पाण्यातील वाहतूक

Question Number : 90 Question Id : 70819115029 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 :

70819150157. Durgapur

70819150158. Vishakhapatnam

70819150159. Bhubaneswar

70819150160. Bhilai

Question Number : 90 Question Id : 70819115029 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खालीलपैकी कोणते शहर हे औद्योगिक शहर नाही?

Options :

70819150157. दुर्गापूर

70819150158. विशाखापट्टण

70819150159. भुवनेश्वर

70819150160. भीलाई

Question Number : 91 Question Id : 70819115030 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 :

70819150161. AMRUT

70819150162. Make in India

70819150163. HRIDAY

70819150164. UDAY

Question Number : 91 Question Id : 70819115030 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दिलेल्या भारत सरकारच्या योजनापैकी कोणत्या योजना पारंपरिक शहरांशी (हेरीटेज सीटी) संबंधित आहेत?

Options :

70819150161. अमृत (अ.एम्.आर.यु.टी)

70819150162. मेक इन इंडिया

70819150163. हृदय (एच.आर.आय.डी.अे.वाय)

70819150164. उदय (यु.डी.अे.वाय)

Question Number : 92 Question Id : 70819115031 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 :

70819150165. Tamil Nadu

70819150166. Karnataka

70819150167. Andhra Pradesh

70819150168. Kerala

Question Number : 92 Question Id : 70819115031 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खालीलपैकी कोणत्या दक्षिण भारतीय राज्याचा भूगर्भातील पाण्याचा वापर, उपलब्ध भूगर्भातील साठ्याच्या (टक्केवारीत) प्रमाणात, सर्वाधिक आहे?

Options :

70819150165. तामीलनाडू

70819150166. कर्नाटक

70819150167. आंध्र प्रदेश

70819150168. केरळ

Question Number : 93 Question Id : 70819115032 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Survey of India was established in :

Options :

70819150169. 1886

70819150170. 1876

70819150171. 1866

70819150172. 1896

Question Number : 93 Question Id : 70819115032 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'भारतीय सर्वेक्षण विभाग' केव्हा स्थापन करण्यात आला ?

Options :

70819150169. 1886

70819150170. 1876

70819150171. 1866

70819150172. 1896

Question Number : 94 Question Id : 70819115033 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 :

70819150173. Lok Sabha

70819150174. State Legislative Assembly

70819150175. Cabinets

70819150176. Panchayati Raj bodies

Question Number : 94 Question Id : 70819115033 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'73वे अमेंडमेंट अॅक्ट' (73rd सी.ए.ए) 1992 प्रमाणे सर्वप्रथम महिलांना एक तृतीयांश आरक्षण खालिलपकी कशामधे दिले गेले.

Options :

70819150173. लोकसभा

70819150174. विधानसभा

70819150175. मंत्रीमंडल

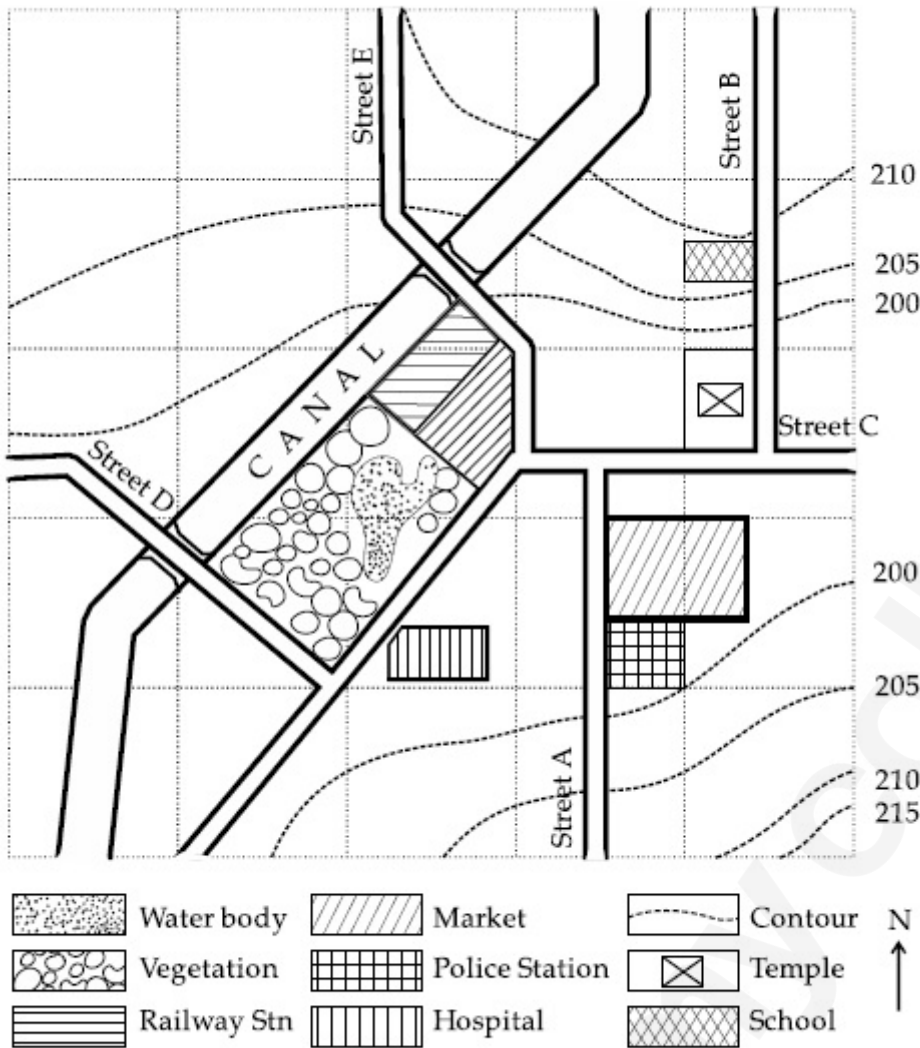
70819150176. पंचायत समिति

Question Number : 95 Question Id : 70819115034 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1





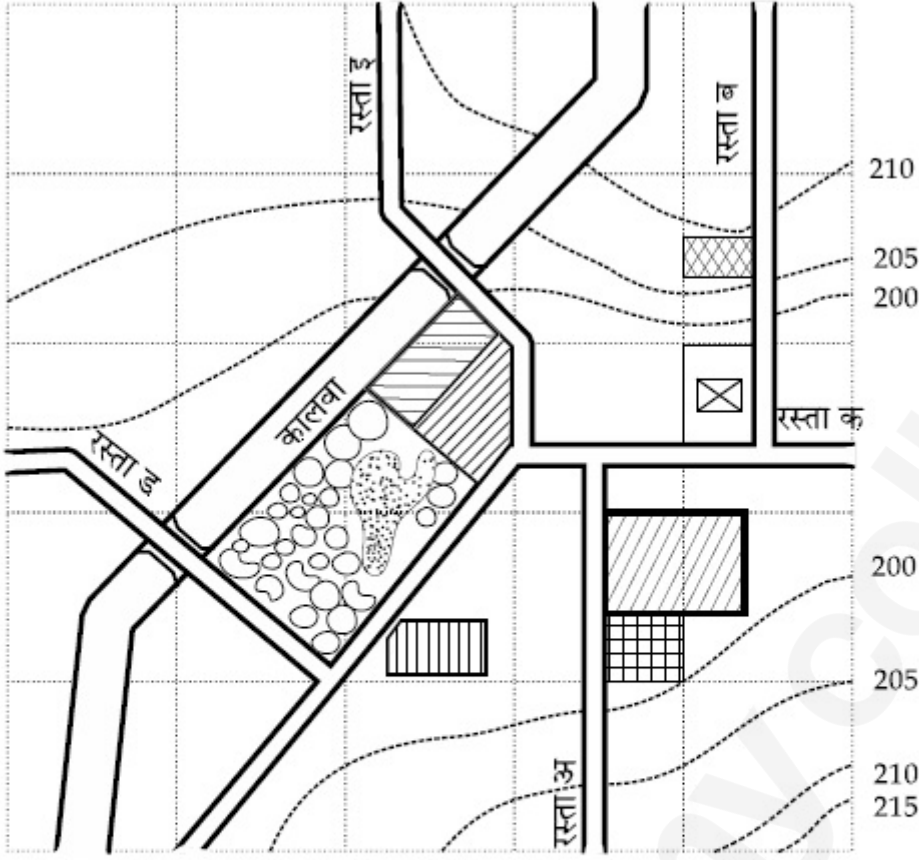
With reference to the diagram, choose the correct statement.

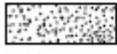







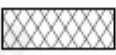
Options :

- 70819150177. Slope of land on which school is located is flatter than the slope of land on which hospital is located.
- 70819150178. Slope of land on which police station is located is steeper than the slope of land on which school is located.
- 70819150179. Slope of land on which school is located is steeper than the slope of land on which temple is located.
- 70819150180. Slope of land on which school is located is the same as the slope of land on which temple is located.

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मॅप रीडिंग) :



 पाणी	 बाजार	 कंटूर	N ↑
 झाडे-झुडपे	 पोलीस ठाणे	 मंदिर	
 रेल्वे स्थानक	 इस्पितळ (हॉस्पिटल)	 शाळा	

दिलेल्या आकृतीवरून खालीलपैकी योग्य विधान निवडा :

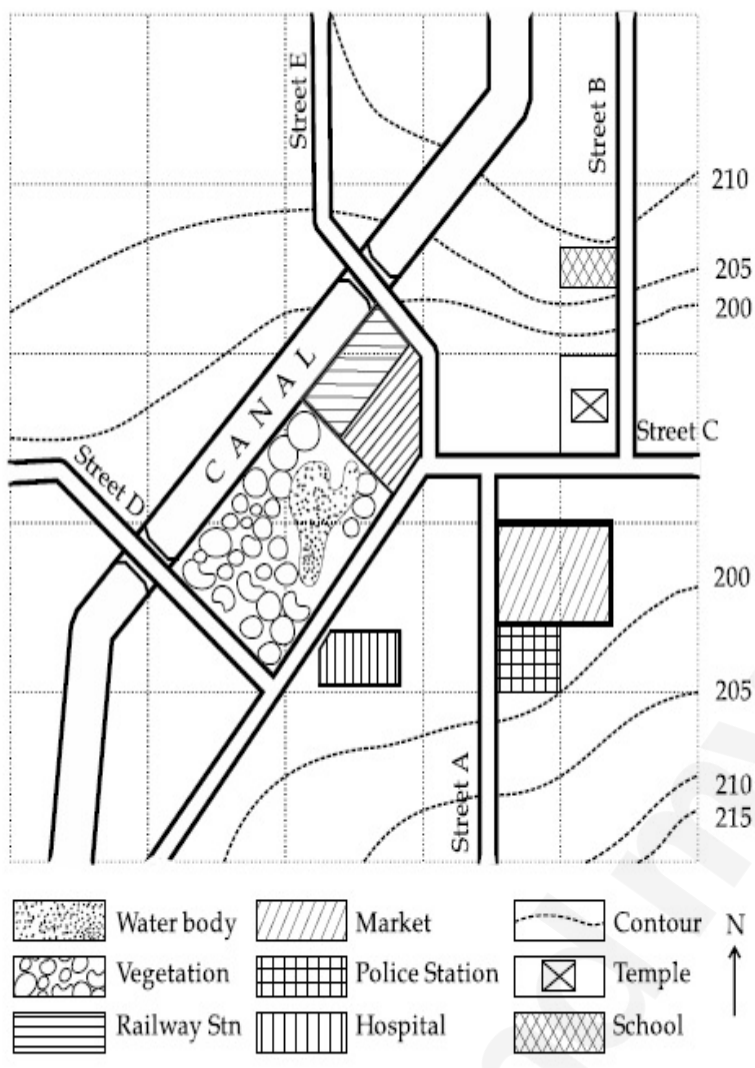
Options :

70819150177. इस्पितळ असलेल्या जमिनीचा उतार हा शाळा असलेल्या जमिनीच्या उतारापेक्षा अधिक आहे.
70819150178. पोलीस स्टेशन असलेल्या जमिनीचा उतार हा शाळा असलेल्या जमिनीच्या उतारापेक्षा अधिक आहे.
70819150179. शाळा असलेल्या जमिनीचा उतार हा मंदिर असलेल्या जमिनीच्या उतारापेक्षा अधिक आहे.
70819150180. शाळा असलेल्या जमिनीचा उतार हा मंदिर असलेल्या जमिनीच्या उताराइतकाच आहे.

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.

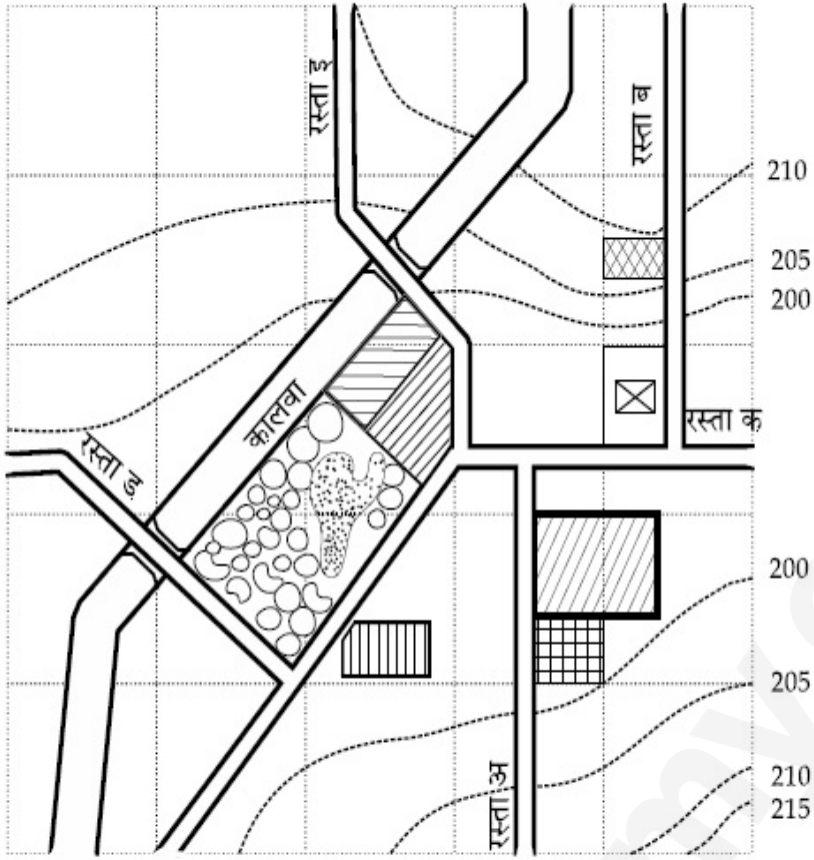
Options :

- 70819150181. North
- 70819150182. North - East
- 70819150183. South - West
- 70819150184. East

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मॅप रीडिंग) :



पाणी	बाजार	कंटूर	N ↑
कालवा	पोलीस ठाणे	मंदिर	
रेल्वे स्थानक	इस्पितळ (हॉस्पिटल)	शाळा	

दिलेल्या आकृतीत, रेल्वे स्टेशनपासून मंदिराकडे जाण्यासाठी _____ ह्या दिशेने जावे लागेल.

Options :

70819150181. उत्तर

70819150182. ईशान्य

70819150183. नैऋत्य

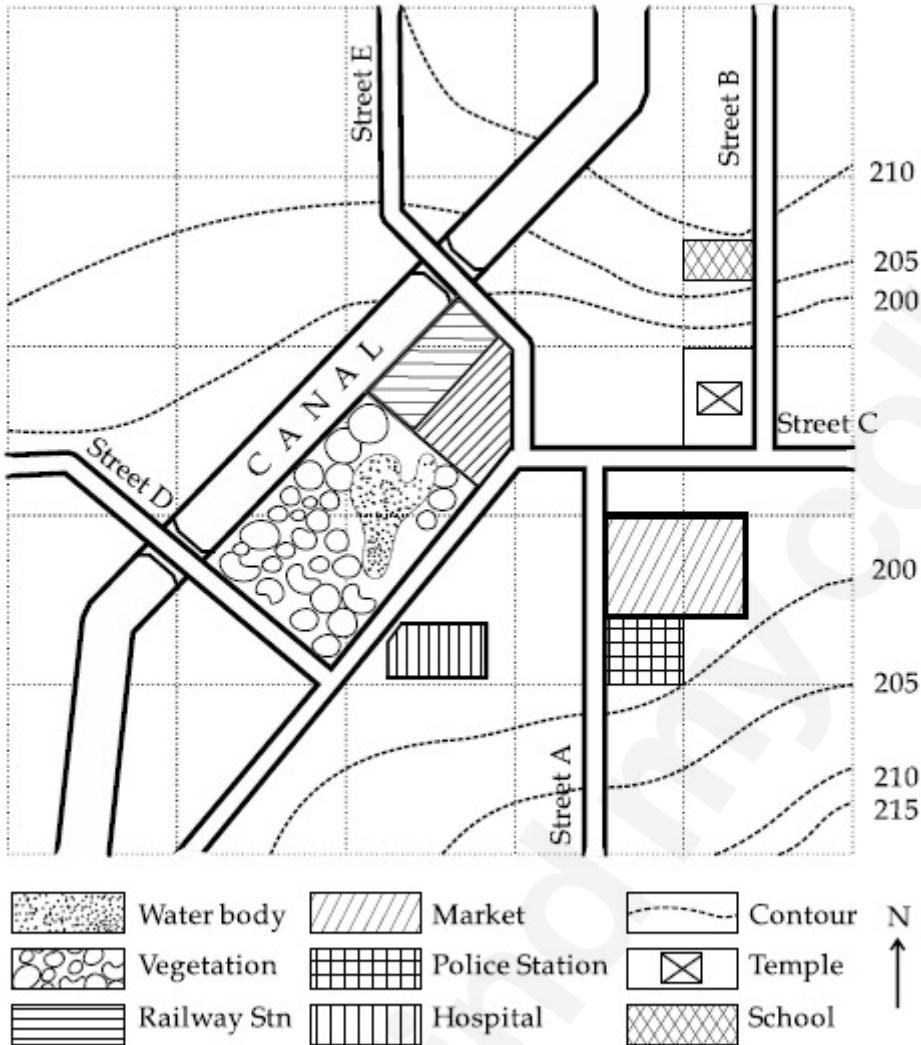
70819150184. पूर्व

Question Number : 97 Question Id : 70819115036 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 :

70819150185. 5 m higher than police station.

70819150186. 5 m higher than school.

70819150187. same level as police station.

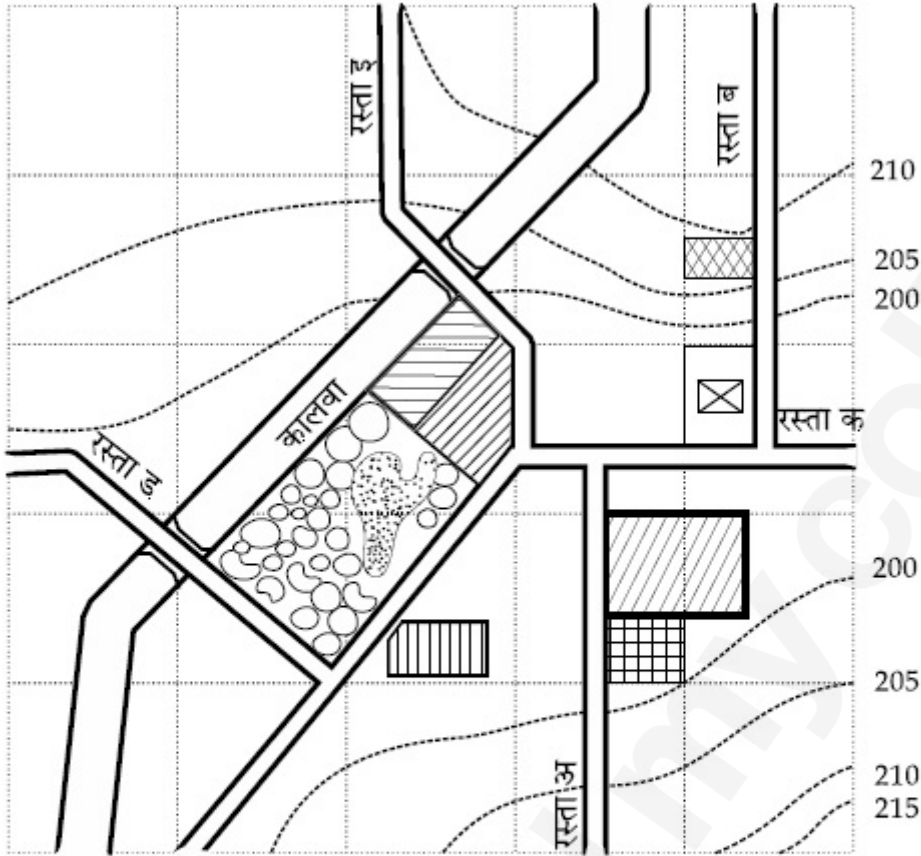
70819150188. same level as school.

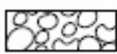

Question Number : 97 Question Id : 70819115036 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मॅप रीडिंग) :



 पाणी	 बाजार	 कॅडुर
 झाडे-झुडपे	 पोलीस ठाणे	 मंदिर
 रेल्वे स्थानक	 इस्पितळ (हॉस्पिटल)	 शाळा

N
↑

दिलेल्या आकृतीत, पाणी (वॉटर बॉडी) कोणत्या उंचीवर आहे?

Options :

70819150185. पोलीस स्टेशनपेक्षा 5 मी. उंच

70819150186. शाळेपेक्षा 5 मी. उंच

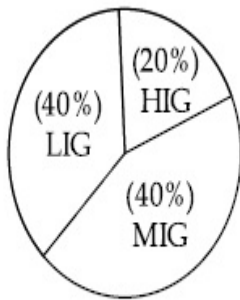
70819150187. पोलीस स्टेशन इतकेच उंच

70819150188. शाळेइतकेच उंच

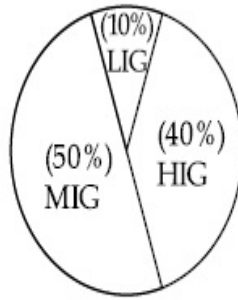
**Question Number : 98 Question Id : 70819115037 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

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 :

70819150189. 4 : 1

70819150190. 1 : 5

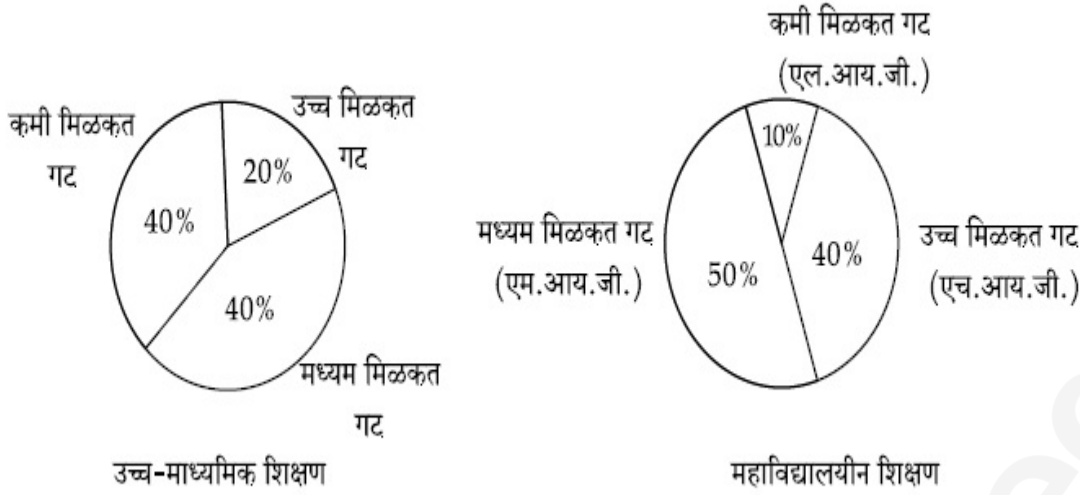
70819150191. 6 : 1

70819150192. 1 : 4

**Question Number : 98 Question Id : 70819115037 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

खालील पाय-तक्त्यात, उच्च माध्यमिक व महाविद्यालयात प्रवेश घेतलेल्या विद्यार्थ्यांचे प्रमाण त्यांच्या कुटुंबाच्या मिळकतीच्या दृष्टीने दिले आहे.



कमी मिळकत गटातील, उच्च माध्यमिक शिक्षण घेणाऱ्या विद्यार्थ्यांचे, महाविद्यालयात शिक्षण घेणाऱ्या विद्यार्थ्यांशी असलेले प्रमाण आहे :

Options :

70819150189. 4 : 1

70819150190. 1 : 5

70819150191. 6 : 1

70819150192. 1 : 4

Question Number : 99 Question Id : 70819115038 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 :

70819150193. The density of population in urban area is 1000 persons/sq.km.

70819150194. The density of population in urban area is 849 persons/sq.km.

70819150195. The density of population in urban area is 4290 persons/sq.km

70819150196. The density of population in urban area is 7800 persons/sq.km.

Question Number : 99 Question Id : 70819115038 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

पृथ्वीच्या पृष्ठभागाचे क्षेत्रफळ 510 दशलक्ष वर्ग कि.मी. आहे. त्यापैकी जमिनीच्या क्षेत्रफळाचा वाटा संपूर्ण पृष्ठभागापैकी 30% जमिनीचा भाग आहे. संपूर्ण जमिनीच्या भागापैकी 3% शहरी जमीन आहे. जगाची लोकसंख्या 7.8 शतलक्ष आहे आणि त्यापैकी पंचावन्न टक्के शहरी लोकसंख्या आहे. योग्य पर्याय निवडा :

Options :

70819150193. शहरी भागातील लोकसंख्या घनता 1000 व्यक्ती/वर्ग कि.मी. आहे.

70819150194. शहरी भागातील लोकसंख्या घनता 849 व्यक्ती/वर्ग कि.मी. आहे.

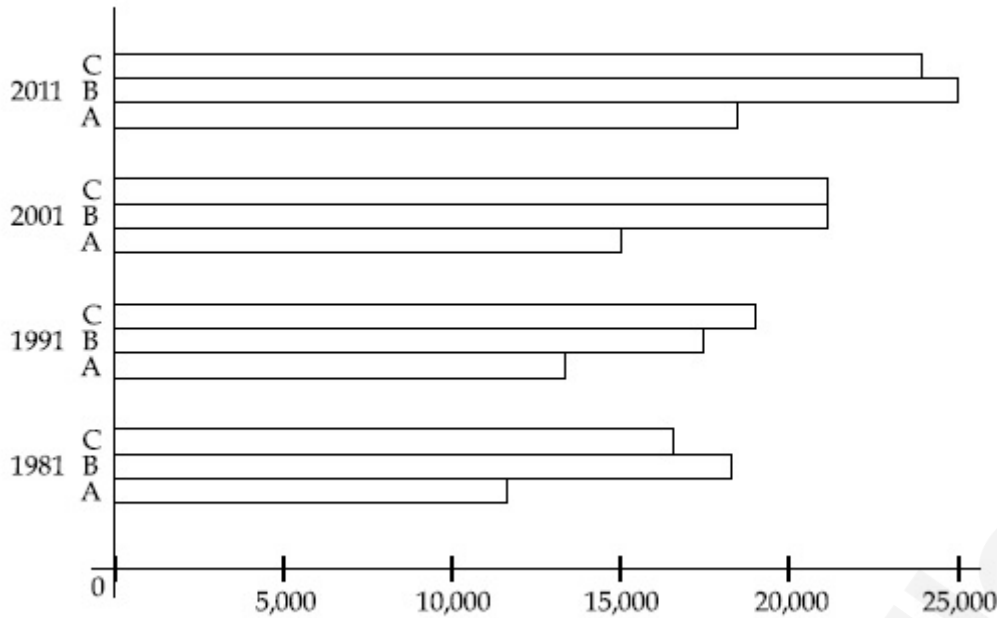
70819150195. शहरी भागातील लोकसंख्या घनता 4290 व्यक्ती/वर्ग कि.मी. आहे.

70819150196. शहरी भागातील लोकसंख्या घनता 7800 व्यक्ती/वर्ग कि.मी. आहे.

Question Number : 100 Question Id : 70819115039 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1



Choose the correct statement :

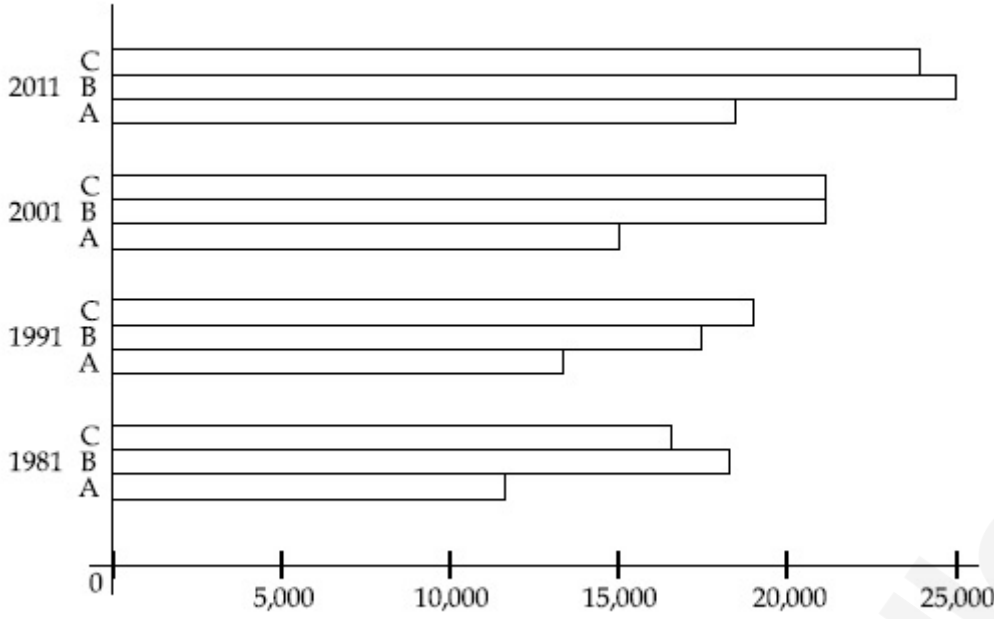
Options :

- 70819150197. City A shows the increase in population from 1981 to 2011 and city C does not show the increase likewise.
- 70819150198. City B shows a continuous decline in population from 1981-2011 whereas city A shows an increase.
- 70819150199. 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.
- 70819150200. City C shows continuous decline in population in various decades whereas city B shows increase.

Question Number : 100 Question Id : 70819115039 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1



योग्य विधान निवडा :

Options :

70819150197. 1981 ते 2011 या काळात शहर 'A' हे लोकसंख्यावाढ दर्शवते आणि शहर 'C' तितकी लोकसंख्या वाढ दर्शवत नाही.
70819150198. 1981 ते 2011, शहर B, लोकसंख्येत एकसारखी घट दर्शवते जेव्हा शहर A वाढ दर्शवते.
70819150199. 1981 ते 2001, शहर A ची लोकसंख्या प्रत्येक दशकात वाढते आहे जेव्हा 1981 ते 1991 मध्ये शहर B ची लोकसंख्या घटते आणि नंतर 1991 ते 2001 वाढते.
70819150200. शहर C लोकसंख्येत सलग घट दर्शवते जेव्हा शहर B वाढ दर्शवते.

Question Number : 101 Question Id : 70819115040 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 :

70819150201. 26 kmhr^{-1}
70819150202. 21.5 kmhr^{-1}
70819150203. 30 kmhr^{-1}
70819150204. 28.5 kmhr^{-1}

Question Number : 101 Question Id : 70819115040 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

एका सर्वेक्षणात 100 वाहनांच्या वेगाचे निरीक्षण केले गेले. खाली दिलेल्या कोष्टकात वाहनांचा वेग व संख्या वाहनांची संख्या दिली आहे.

वाहनांचा वेग (कि.मी. तास ⁻¹)	वाहनांची संख्या
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

वाहनांचा मध्यक (मेडीअन) वेग असेल.

Options :

70819150201. 26 कि.मी. तास⁻¹

70819150202. 21.5 कि.मी. तास⁻¹

70819150203. 30 कि.मी. तास⁻¹

70819150204. 28.5 कि.मी. तास⁻¹

Question Number : 102 Question Id : 70819115041 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 :

70819150205. As a charity by privileged people.

70819150206. As a way to reduce crime.

70819150207. As a way to sensitize travellers about poor living conditions in the society.

70819150208. As an adventure activity.

Question Number : 102 Question Id : 70819115041 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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70819150205. As a charity by privileged people.

70819150206. As a way to reduce crime.

70819150207. As a way to sensitize travellers about poor living conditions in the society.

70819150208. As an adventure activity.

Question Number : 103 Question Id : 70819115042 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 :

70819150209. Learning

70819150210. Staring

70819150211. Peeping

70819150212. Gloating

Question Number : 103 Question Id : 70819115042 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 :

70819150209. Learning

70819150210. Staring

70819150211. Peeping

70819150212. Gloating

Question Number : 104 Question Id : 70819115043 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 :

70819150213. Both A and R are true and R is the correct explanation of A

70819150214. Both A and R are true but R is NOT the correct explanation of A

70819150215. A is true but R is false

70819150216. A is false but R is true

Question Number : 104 Question Id : 70819115043 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दोन विधाने दिली आहेत. एक आहे प्रतिपादन 'अ' आणि दुसरे आहे कारण 'र' :

प्रतिपादन अ : गेल्या दोन दशकांत एकत्रित एकाग्रतेचा कालावधी घटत चाललेला आहे.

कारण र : मोठ्या प्रमाणातील माहितीच्या त्वरीत उपलब्धते मुळे एखाद्या विषयातील रुची त्वरीत कमी होते.

वरील विधानांवरून खालीलपैकी सर्वात योग्य विकल्प निवडा :

Options :

70819150213. दोन्ही अ व र बरोबर आहेत आणि र हे अ चे योग्य स्पष्टीकरण आहे.

70819150214. दोन्ही अ व र बरोबर आहेत पण र हे अ चे योग्य स्पष्टीकरण नाही.

70819150215. अ बरोबर पण र चूक आहे.

70819150216. अ चूक पण र बरोबर आहे.

Question Number : 105 Question Id : 70819115044 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 :

70819150217. Both A and R are true and R is the correct explanation of A

70819150218. Both A and R are true but R is NOT the correct explanation of A

70819150219. A is true but R is false

70819150220. A is false but R is true

Question Number : 105 Question Id : 70819115044 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

खाली दोन विधाने दिली आहेत. एक आहे प्रतिपादन 'अ' आणि दुसरे आहे कारण 'र' :

प्रतिपादन अ : गेल्या दोन दशकांत भारतातील घटस्फोटाचे प्रमाण वाढले आहे.

कारण र : अपत्य नको असलेल्या विवाहित जोडप्यांचे वाढते प्रमाण.

वरील विधानांवरून खालीलपैकी सर्वात योग्य विकल्प निवडा :

Options :

70819150217. दोन्ही अ व र बरोबर आहेत आणि र हे अ चे योग्य स्पष्टीकरण आहे.

70819150218. दोन्ही अ व र बरोबर आहेत पण र हे अ चे योग्य स्पष्टीकरण नाही.

70819150219. अ बरोबर पण र चूक आहे.

70819150220. अ चूक आहे पण र बरोबर आहे.

Drawing

Section Id :	708191544
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 :	708191824

Question Shuffling Allowed :

No

Question Number : 106 Question Id : 70819115045 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 : 70819115045 Question Type : SUBJECTIVE

Correct Marks : 50

किंवा

तुमच्या पसंतीच्या चौकटीमध्ये कृष्णधवल छायांकन कला वापरून दिलेल्या चित्राचे सांकेतिक उकलन (डीकोडींग) करून संतुलित आकाररचना बनवा.



Question Number : 107 Question Id : 70819115046 Question Type : SUBJECTIVE

Correct Marks : 50

Draw a scene of a Kite festival by using colors.

OR

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

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

Use 'Cool Colorscheme' for composition.

Question Number : 107 Question Id : 70819115046 Question Type : SUBJECTIVE

Correct Marks : 50

रंगांचा वापर करून 'पतंग उत्सवाचे' दृश्य रेखाटा.

किंवा

खाली दिलेल्या दोन प्रकारच्या वस्तु वापरून सुंदर त्रिपरिमाणीत (3-डी) रचना साधा.

- (i) ठोकळा अ : आकारमान 2 से.मी. × 2 से.मी. × 2 से.मी. 5 नग.
- (ii) ठोकळा ब : आकारमान 5 से.मी. × 2 से.मी. × 2 से.मी. 4 नग.

शीत रंगसंगती चा वापर करा.