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B ARCH EA

Group Number :	1
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Mathematics Section A

Section Id :	708191381
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 :	708191661
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 70819111332 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 :

70819136701. $\frac{121}{3}$

70819136702. $\frac{122}{3}$

70819136703. $\frac{125}{3}$

70819136704. $\frac{128}{3}$

Question Number : 1 Question Id : 70819111332 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\int_{-4}^4 |9-x^2| dx$ অনুকলনটোৰ মান হ'ব :

Options :

70819136701. $\frac{121}{3}$

70819136702. $\frac{122}{3}$

70819136703. $\frac{125}{3}$

70819136704. $\frac{128}{3}$

Question Number : 2 Question Id : 70819111333 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 :

70819136705. $\frac{31}{13}$

70819136706. $\frac{108}{13}$

70819136707. $\frac{27}{2}$

70819136708. $\frac{54}{7}$

Question Number : 2 Question Id : 70819111333 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

এটা গুণোত্তৰ প্ৰগতিৰ অসীম সংখ্যক পদৰ যোগফল 3 আৰু ইয়াৰ পদবোৰৰ বৰ্গৰ যোগফল $\frac{9}{2}$ । তেন্তে, ইয়াৰ পদবোৰৰ ঘনৰ যোগফল হ'ব :

Options :

70819136705. $\frac{31}{13}$

70819136706. $\frac{108}{13}$

70819136707. $\frac{27}{2}$

70819136708. $\frac{54}{7}$

Question Number : 3 Question Id : 70819111334 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 :

70819136709. $P \Leftrightarrow P \vee Q$

70819136710. $(P \wedge Q) \Leftrightarrow P$

70819136711. $(P \wedge (\sim P \vee Q)) \vee (\sim Q)$

70819136712. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 3 Question Id : 70819111334 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তলৰ কোনটো বুলিন ৰাশি এটা পুনঃৰুপান্তৰ ?

Options :

70819136709. $p \Leftrightarrow p \vee q$

70819136710. $(p \wedge q) \Leftrightarrow p$

70819136711. $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819136712. $(p \vee \sim p) \wedge (q \vee (\sim q))$

Question Number : 4 Question Id : 70819111335 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 :

70819136713. a, b and c are in Arithmetic Progression

70819136714. a, b and c are in Geometric Progression

70819136715. a, 2b and c are in Arithmetic Progression

70819136716. a, b and c satisfy $2b^2 = ac$

Question Number : 4 Question Id : 70819111335 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ধৰা হ'ল $|a| < 1$, $|b| < 1$, $|c| < 1$ আৰু $x = \sum_{n=0}^{\infty} a^n$, $y = \sum_{n=0}^{\infty} b^n$, $z = \sum_{n=0}^{\infty} c^n$ । যদি $\frac{1}{x}$, $\frac{1}{y}$, $\frac{1}{z}$ সমান্তৰ প্রগতিত থাকে, তেন্তে :

Options :

70819136713. a , b আৰু c সমান্তৰ প্রগতিত থাকিব

70819136714. a , b আৰু c গুণোত্তৰ প্রগতিত থাকিব

70819136715. a , $2b$ আৰু c সমান্তৰ প্রগতিত থাকিব

70819136716. a , b আৰু c য়ে $2b^2 = ac$ ক সিদ্ধ কৰে

Question Number : 5 Question Id : 70819111336 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 :

70819136717. $15e + 5$

70819136718. $15e - 5$

70819136719. $16e - 5$

70819136720. $16e - 7$

Question Number : 5 Question Id : 70819111336 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Options :

70819136717. $15e + 5$

70819136718. $15e - 5$

70819136719. $16e - 5$

70819136720. $16e - 7$

Question Number : 6 Question Id : 70819111337 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 :

70819136721. 5

70819136722. 3

70819136723. 7

70819136724. 1

Question Number : 6 Question Id : 70819111337 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$10^{50} + (3 \times (4)^{52}) + \lambda$ বাশিটো 9 ৰে বিভাজ্য হ'লে λ ৰ নিম্নতম ধনাত্মক অখণ্ড মান হ'ব :

Options :

70819136721. 5

70819136722. 3

70819136723. 7

70819136724. 1

Question Number : 7 Question Id : 70819111338 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 :

70819136725. 455

70819136726. 421

70819136727. 435

70819136728. 441

Question Number : 7 Question Id : 70819111338 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তিনিডাল সমান্তৰাল আৰু একেসমতলীয় ৰেখাৰ ওপৰত ক্ৰমে 4টা, 5টা অৰু 6টা বিন্দু থাকে। যদি চাৰিটা বা অধিক বিন্দু থকা থুপটো চক্ৰীয় নহয় আৰু ভিন্ন ৰেখাত অৱস্থিত তিনিটা বিন্দুৰ থুপটো একেৰেখীয় নহয়, তেন্তে মাত্ৰ তিনিটা বিন্দুৰ মাজেৰে পাৰ হৈ যোৱা বৃত্তৰ সংখ্যা হ'ব :

Options :

70819136725. 455

70819136726. 421

70819136727. 435

70819136728. 441

Question Number : 8 Question Id : 70819111339 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 :

70819136729. $a = 1, b = 0$

70819136730. $a = 0, b = 1$

70819136731. $a = 0, b = -1$

70819136732. $a = -1, b = 1$

Question Number : 8 Question Id : 70819111339 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

যদি $(2, -1)$ বিন্দুটোত $y = \frac{ax - b}{(x - 1)(x - 4)}$ ৰ এটা চৰম মান থাকে, তেন্তে a আৰু b ৰ মানবোৰ হ'ব :

Options :

70819136729. $a = 1, b = 0$

70819136730. $a = 0, b = 1$

70819136731. $a = 0, b = -1$

70819136732. $a = -1, b = 1$

Question Number : 9 Question Id : 70819111340 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 :

70819136733. $\frac{9}{13}$

70819136734. $\frac{15}{4}$

70819136735. $\frac{13}{9}$

70819136736. $\frac{1}{13}$

Question Number : 9 Question Id : 70819111340 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$ আৰু $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$ সমতলদুখনৰ মাজৰ দূৰত্বটো হ'ব :

Options :

70819136733. $\frac{9}{13}$

70819136734. $\frac{15}{4}$

70819136735. $\frac{13}{9}$

70819136736. $\frac{1}{13}$

Question Number : 10 Question Id : 70819111341 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 :

70819136737. $\frac{7}{20}$

70819136738. $\frac{1}{20}$

70819136739. $\frac{19}{20}$

70819136740. $\frac{12}{20}$

Question Number : 10 Question Id : 70819111341 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

দুজন ছাত্র X আৰু Y ৰ এটা গণিতৰ সমস্যা সমাধান কৰাৰ সম্ভাৱিতা ক্ৰমে $\frac{1}{4}$ আৰু $\frac{1}{5}$ । যদি তেওঁলোকৰ দুয়োজনে সমস্যাটো স্বতন্ত্ৰভাৱে সমাধান কৰাৰ চেষ্টা কৰে, তেন্তে, সমস্যাটো তেওঁলোকৰ কোনোবা এজনে সমাধান কৰাৰ সম্ভাৱিতাটো হ'ব :

Options :

70819136737. $\frac{7}{20}$

70819136738. $\frac{1}{20}$

70819136739. $\frac{19}{20}$

70819136740. $\frac{12}{20}$

Question Number : 11 Question Id : 70819111342 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 :

70819136741. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819136742. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819136743. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819136744. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 11 Question Id : 70819111342 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\frac{1+i}{1-i}$ জটিল সংখ্যাটোৰ প্ৰস্ৰীয়া আকাৰটো হ'ব :

Options :

70819136741. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819136742. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819136743. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819136744. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 12 Question Id : 70819111343 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 :

70819136745. ²

70819136746. ³

70819136747. ⁴

70819136748. ¹

Question Number : 12 Question Id : 70819111343 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

যদি (1, 0) আৰু (3, 0) বিন্দুকেইটা সংযোগী ৰেখাখণ্ডডালক 2 : 1 অনুপাতত দুভাগ কৰা আৰু ৰেখাখণ্ডডালৰ ওপৰত লম্বভাৱে থকা ৰেখাডালৰ সমীকৰণটো $ax = 7$ হয়, তেন্তে a ৰ মান হ'ব :

Options :

70819136745. ²

70819136746. ³

70819136747. ⁴

70819136748. ¹

Question Number : 13 Question Id : 70819111344 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 :

70819136749. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819136750. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819136751. $2(x^2 + y^2) - x + y + 1 = 0$

70819136752. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 13 Question Id : 70819111344 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$x + y = 2$ রেখাটো সাপেক্ষে $x^2 + y^2 - 2x = 0$ বৃত্তটোৰ দাপোন প্ৰতিবিস্ম হৈ থকা বৃত্তটোৰ সমীকৰণটো হ'ব :

Options :

70819136749. $x^2 + y^2 - 2x + 4y + 3 = 0$

70819136750. $x^2 + y^2 - 4x - 2y + 4 = 0$

70819136751. $2(x^2 + y^2) - x + y + 1 = 0$

70819136752. $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 14 Question Id : 70819111345 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 :

70819136753. $y+3=0$ and $x-1=0$

70819136754. $x-3=0$ and $y+1=0$

70819136755. $x+3=0$ and $x-1=0$

70819136756. $y+3=0$ and $y-1=0$

Question Number : 14 Question Id : 70819111345 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$ উপবৃত্ত আৰু $(x+1)^2 + (y-1)^2 = 4$ বৃত্তৰ উমৈহতীয়া (common) স্পৰ্শকবোৰৰ
সমীকৰণবোৰ হ'ব :

Options :

70819136753. $y+3=0$ আৰু $x-1=0$

70819136754. $x-3=0$ আৰু $y+1=0$

70819136755. $x+3=0$ আৰু $x-1=0$

70819136756. $y+3=0$ আৰু $y-1=0$

Question Number : 15 Question Id : 70819111346 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 :

70819136757. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819136758. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819136759. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819136760. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 15 Question Id : 70819111346 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

যদি $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$ হয়, তবে A^k ($k \in \mathbb{N}$) হ'ব :

Options :

70819136757. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819136758. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819136759. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819136760. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819111347 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 :

70819136761. $s = 5, t = 13$

70819136762. $s \neq 5$

70819136763. $s = 5, t \neq 13$

70819136764. $t \neq 13$

Question Number : 16 Question Id : 70819111347 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

যদি, $x_1 + x_2 + x_3 = 5$

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

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

সমীকৰণ প্ৰণালীটোৰ কোনো সমাধান নাথাকে, তেন্তে s আৰু t ৰ মানবোৰ হ'ব :

Options :

70819136761. $s = 5, t = 13$

70819136762. $s \neq 5$

70819136763. $s=5, t \neq 13$

70819136764. $t \neq 13$

Question Number : 17 Question Id : 70819111348 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 :

70819136765. 1

70819136766. -1

70819136767. 0

70819136768. 2

Question Number : 17 Question Id : 70819111348 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$(1, \infty)$ অন্তৰালত $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ সাপেক্ষে $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ ৰ অৱকলজটো হ'ব :

Options :

70819136765. 1

70819136766. ⁻¹

70819136767. ⁰

70819136768. ²

Question Number : 18 Question Id : 70819111349 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 :

70819136769. $\frac{\pi}{6}$

70819136770. $\frac{\pi}{4}$

70819136771. $\frac{\pi}{3}$

70819136772. $\frac{5\pi}{12}$

Question Number : 18 Question Id : 70819111349 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ধৰা হ'ল, $\vec{a}$, $\vec{b}$ আৰু $\vec{c}$ তিনিটা ভেক্টৰ যাতে $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$ । যদি $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$ হয়, তেন্তে

$\vec{a}$ আৰু $\vec{c}$ ৰ মাজৰ সূক্ষ্মকোণটো হ'ব :

Options :

70819136769. $\frac{\pi}{6}$

70819136770. $\frac{\pi}{4}$

70819136771. $\frac{\pi}{3}$

70819136772. $\frac{5\pi}{12}$

Question Number : 19 Question Id : 70819111350 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 :

70819136773. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819136774. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819136775. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819136776. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 19 Question Id : 70819111350 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$(1+y^2)dx = (\tan^{-1}y - x)dy$ অৱকলন সমীকৰণটোৰ সমাধানটো হ'ব :
(য'ত c এটা স্বেচ্ছ প্ৰসংগ)

Options :

70819136773. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819136774. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819136775. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819136776. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819111351 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 :

70819136777. $[-5, -4] \cup [4, 5]$

70819136778. $[-5, 4) \cup (-4, 5]$

70819136779. $(-5, -4) \cup (4, 5)$

70819136780. $(-5, 4) \cup (-4, 5)$

Question Number : 20 Question Id : 70819111351 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

যদি $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$ ভেক্টরটোৱে (ধনাত্মক দিশৰ) স্থানাংক অক্ষবোৰৰ লগত সুষ্পৰ্শকোণ উৎপন্ন কৰে, তেন্তে x ৰ মানবোৰ থকা অন্তৰালটো হ'ব :

Options :

70819136777. $[-5, -4] \cup [4, 5]$

70819136778. $[-5, 4] \cup (-4, 5]$

70819136779. $(-5, -4) \cup (4, 5)$

70819136780. $(-5, 4) \cup (-4, 5)$

Mathematics Section B

Section Id :	708191382
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 :	708191662
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 70819111352 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 : 70819111352 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx \text{ ହ'ବ } \underline{\hspace{2cm}}।$$

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 : 70819111353 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The minimum value of $9\tan^2\theta + 4\cot^2\theta$ is $\underline{\hspace{2cm}}$.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 22 **Question Id :** 70819111353 **Question Type :** SA

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

$9\tan^2\theta + 4\cot^2\theta$ ৰ সৰ্বনিম্ন মান হ'ব _____।

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 :** 70819111354 **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 : 70819111354 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

(1, 2, 3) বিন্দুটোৰ পৰা $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ ৰেখাডাললৈ টনা লম্বডালৰ দৈৰ্ঘ্য হ'ব _____।

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 : 70819111355 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 : 70819111355 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

যদি $\log_3 2, \log_3 (2^x - 5)$ আৰু $\log_3 \left(2^x - \frac{7}{2} \right)$ সমান্তৰ প্ৰগতিত থাকে, তেন্তে x ৰ মান হ'ব _____।

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 :** 70819111356 **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 :** 70819111356 **Question Type :** SA

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

যদি $x^2 + x + 1 = 0$, তেন্তে $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$ হ'ব _____।

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 : 70819111357 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 : 70819111357 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

(4, 5) বিন্দুটোৰ পৰা $x^2 + y^2 - 4x - 2y - 11 = 0$ বৃত্তটোলৈ অঁকা স্পৰ্শকবোৰে এযোৰ ব্যাসাৰ্ধৰ লগত এটা চতুৰ্ভুজ গঠন কৰে। এই চতুৰ্ভুজটোৰ কালি বৰ্গএককত হ'ব _____।

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 : 70819111358 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 :** 70819111358 **Question Type :** SA

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

যদি এটা দ্বিপদ বস্তুৰ মাধ্য আৰু প্ৰসৰণৰ যোগফল 15 হয়, আৰু সিহঁতৰ বৰ্গৰ যোগফল 117 হয়, তেন্তে, স্বতন্ত্ৰ প্ৰচেষ্টাৰ সংখ্যা হ'ব _____।

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 :** 70819111359 **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 : 70819111359 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ধৰা হ'ল, $(1, 2, 6), (2, 5, 7)$ বিন্দুকেইটাৰ মাজেৰে পাৰ হৈ যোৱা আৰু $4x - y + z = 15$ সমতলখনৰ ওপৰত লম্ব হোৱা সমতলখনৰ সমীকৰণটো হ'ল $ax + by + cz + d = 0$ । যদি $a, b, c, d \in \mathbb{Z}$ আৰু গ: সা: উ: $(|a|, |b|, |c|) = 1$ হয়, তেন্তে, $|a + b + c + d|$ সমান হ'ব _____।

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 : 70819111360 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 : 70819111360 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ অন্তৰালত $4\sin^2 x - 8\sin x + 3 = 0$ সমীকৰণটোৰ বাস্তৱ সমাধানৰ সংখ্যা হ'ব _____।

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 :** 70819111361 **Question Type :** SA

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

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

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 30 **Question Id :** 70819111361 **Question Type :** SA

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

ধৰা হ'ল, $A_1, A_2, A_3, \dots$ এটা বৰ্ধমান গুণোত্তৰ প্ৰগতি। যদি $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ আৰু $A_5 A_7 = 441$ হয়, তেন্তে $3(A_2 + A_4)$ সমান হ'ব _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

Aptitude Test

Section Id :	708191383
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 :	708191663
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 70819111362 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 :

70819136791. United Nations Educational, Scientific & Cultural Organization.

70819136792. United Nations Educational Security Cultural Organization.

70819136793. United Nations Entrance Site Calling Organization.

70819136794. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 31 Question Id : 70819111362 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তলৰ কোনটো সম্পূৰ্ণ বাক্য হ'ব UNESCO ৰ ?

Options :

70819136791. ইউনাইটেড নেচন্স এডুকেচনেল, চাইণ্টিফিক & কালচাৰেল অৰ্গেনাইজেচন

70819136792. ইউনাইটেড নেচন্স এডুকেচনেল চিকুৰিটি কালচাৰেল অৰ্গেনাইজেচন

70819136793. ইউনাইটেড নেচন্স এনট্ৰেন্চ চাইট কলিং অৰ্গেনাইজেচন

70819136794. ইউনাইটেড নেচন্স এডুকেচনেল, চাৰ্চটেইনেবল & কালচাৰেল অৰ্গেনাইজেচন

Question Number : 32 Question Id : 70819111363 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 :

70819136795. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819136796. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819136797. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819136798. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819111363 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তালিকা-I ৰ লগত তালিকা-II মিলাওক।

তালিকা-I

তালিকা-II

(I) হল অফ নেচন

(a)



(II) ফলিং ব্ৰাটাৰ, পেনচিলভেনিয়া

(b)



(III) পেট্ৰ'নাছ টাৱাৰ

(c)



(IV) চেফ্ৰেটেৰিয়েট

(d)



Options :

70819136795. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819136796. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819136797. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819136798. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819111364 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 :

70819136799. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819136800. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819136801. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819136802. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819111364 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1**

তালিকা-I ৰ লগত তালিকা-II মিলাওক।

তালিকা-I	তালিকা-II
(I) কামৰূপ	(a) ভিক্ট'ৰিয়া মেম'ৰিয়েল হ'ল
(II) দিল্লী	(b) বদ্রীনাথ মন্দিৰ
(III) ফটেশ্বৰ চিত্ৰী	(c) খিড়কী মছজিদ
(IV) কোলকাতা	(d) বুলন্দ দৰ্জা

Options :

70819136799. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819136800. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819136801. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819136802. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 34 Question Id : 70819111365 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I

List - II

(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



Options :

70819136803. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819136804. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819136805. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819136806. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819111365 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তালিকা-I ৰ লগত তালিকা-II মিলাওক।

তালিকা-I

তালিকা-II

(I) আগ্রা দুৰ্গ

(a)



(II) অটলা মহজিদ

(b)



(III) নালন্দা বিশ্ববিদ্যালয়

(c)



(IV) জগন্নাথ মন্দিৰ

(d)



Options :

70819136803. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819136804. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819136805. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819136806. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 35 Question Id : 70819111366 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 :

70819136807. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819136808. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819136809. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819136810. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 35 Question Id : 70819111366 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তালিকা-I ৰ লগত তালিকা-II মিলাওক।

তালিকা-I	তালিকা-II
(I) যাডবেন্দ্র উদ্যান	(a) মনালী
(II) বিষ্ণু মন্দিৰ	(b) অমৃতসৰ
(III) হিড়িম্বা মন্দিৰ	(c) পিঞ্জোৰ
(IV) হৰি মন্দিৰ	(d) বুনিয়াৰ

Options :

70819136807. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819136808. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819136809. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819136810. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

Question Number : 36 Question Id : 70819111367 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 :

70819136811. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819136812. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819136813. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819136814. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 36 Question Id : 70819111367 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তালিকা-I ৰ সৈতে তালিকা-II মিলাওক।

তালিকা-I	তালিকা-II
(I) মেহৰাণগড় দুৰ্গ	(a) হাইদৰাবাদ
(II) ছিৰি দুৰ্গ	(b) কোলকাটা
(III) গোলকণ্ডা দুৰ্গ	(c) দিল্লী
(IV) উইলিয়াম দুৰ্গ	(d) যোধপুৰ

তলৰ বিকল্পৰ পৰা শুদ্ধ উত্তৰ চয়ন কৰা।

Options :

70819136811. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819136812. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819136813. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819136814. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 37 Question Id : 70819111368 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 :

70819136815. B.V. Doshi

70819136816. Arundhati Roy

70819136817. Revati Kamat

70819136818. Bimal Patel

Question Number : 37 Question Id : 70819111368 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘গড অফ স্মল থিংছ’ কিতাপখন কোনজন ভাৰতীয় ছাপতাবিদে লিখা ?

Options :

70819136815. বি.ভি. ডেশী

70819136816. অৰুন্ধতী ৰয়

70819136817. ৰেৱাটি কামাট

70819136818. বিমল পেটেল

Question Number : 38 Question Id : 70819111369 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 :

70819136819. Gujarat

70819136820. West Bengal

70819136821. Tamil Nadu

70819136822. Rajasthan

Question Number : 38 Question Id : 70819111369 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘ঝরোখা’ প্রকাৰৰ খিড়কীখন সাধাৰণতে ক’ত পোৱা যায় ?

Options :

70819136819. গুজৰাট

70819136820. পশ্চিম বংগ

70819136821. তামিল নাডু

70819136822. ৰাজস্থান

Question Number : 39 Question Id : 70819111370 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 :

70819136823. North-West side

70819136824. South-East side

70819136825. North side

70819136826. South-West side

Question Number : 39 Question Id : 70819111370 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

কোন দিশৰ পৰা মৌচুমী বায়ু ভাৰতীয় উপকূলত প্ৰবেশ কৰে ?

Options :

70819136823. উত্তৰ পশ্চিম দিশ

70819136824. দক্ষিণ-পূব দিশ

70819136825. উত্তৰ দিশ

70819136826. দক্ষিণ-পশ্চিম দিশ

Question Number : 40 Question Id : 70819111371 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 :

70819136827. Bharat Bhavan in Bhopal

70819136828. LIC Building in Delhi

70819136829. Charminar in Hyderabad

70819136830. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819111371 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত কোনটো অট্টালিকাত, উপনিবেশিক ৰচনা শৈলীৰ উমান পোৱা যায় ?

Options :

70819136827. ভাৰত ভৱন, ভোপাল

70819136828. এল.আই.চি. বিল্ডিং, দিল্লী

70819136829. চাৰমিনাৰ, হাইদৰাবাদ

70819136830. ভিক্ট'ৰিয়া মেম'ৰিয়েল, কোলকাতা

Question Number : 41 Question Id : 70819111372 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 :

70819136831. 420×590 (mm $\times$ mm)

70819136832. 420×594 (mm $\times$ mm)

70819136833. 297×420 (mm $\times$ mm)

70819136834. 420×592 (mm $\times$ mm)

Question Number : 41 Question Id : 70819111372 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘A2’ ছবি অকা কাগজৰ মাপ কি হয় ?

Options :

70819136831. 420×590 (মি.মি. $\times$ মি.মি.)

70819136832. 420×594 (মি.মি. $\times$ মি.মি.)

70819136833. 297×420 (মি.মি. $\times$ মি.মি.)

70819136834. 420×592 (মি.মি. $\times$ মি.মি.)

Question Number : 42 Question Id : 70819111373 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 :

70819136835. Chittor fort

70819136836. Jaigarh fort

70819136837. Bhangarh fort

70819136838. Amer fort

Question Number : 42 Question Id : 70819111373 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ভিক্ট'ৰি টাৱাৰ নিম্নলিখিত কোনটো দুৰ্গৰ অন্তৰ্গত ?

Options :

70819136835. চিত্তোৰ দুৰ্গ

70819136836. জয়গড় দুৰ্গ

70819136837. ভানগড় দুৰ্গ

70819136838. আমেৰ দুৰ্গ

Question Number : 43 Question Id : 70819111374 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 :

70819136839. Sanjay Puri

70819136840. Vikram Lall

70819136841. Ashok Lall

70819136842. C. Sompura

Question Number : 43 Question Id : 70819111374 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত কোনজন স্থাপত্যবিদে 'অক্ষৰধাম মন্দিৰ' ৰ সংৰচনা কৰিছে ?

Options :

70819136839. সঞ্জয় পুৰী

70819136840. বিক্রম লাল

70819136841. অশোক লাল

70819136842. চি. সোমপুৰা

Question Number : 44 Question Id : 70819111375 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Volume Zero’ Documentary is on which Architect ?

Options :

70819136843. Charles Correa

70819136844. Richard Mier

70819136845. Jasbir Sachdev

70819136846. Ranjit Sabliki

Question Number : 44 Question Id : 70819111375 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘ভলিয়ুম জিৰ’ তথ্যচিত্ৰখন কোনজন স্থাপত্যবিদৰ ওপৰত নিৰ্মিত ?

Options :

70819136843. চাৰ্লস কোৰিয়া

70819136844. ৰিচাৰ্ড মিয়াৰ

70819136845. জচবিৰ ছচডেব

70819136846. বঞ্জিত সবলিকি

Question Number : 45 Question Id : 70819111376 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Agenda 21' is declaration related with :

Options :

70819136847. Climate change

70819136848. Global warming

70819136849. Sustainable development

70819136850. Smart city

Question Number : 45 Question Id : 70819111376 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'এজেন্ডা 21' ঘোষণাটি কাৰ লগত সম্পৰ্কিত ?

Options :

70819136847. জলবায়ু পৰিবৰ্তন

70819136848. বিশ্ব উষ্ণতা বৃদ্ধি

70819136849. প্ৰাকৃতিক ভাৰসাম্যতা উন্নয়ণ

70819136850. স্মার্ট চহৰ

Question Number : 46 Question Id : 70819111377 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 :

70819136851. Karnataka

70819136852. Orissa

70819136853. Maharashtra

70819136854. Uttar Pradesh

Question Number : 46 Question Id : 70819111377 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

সোণৰ খনি ভাৰতৰ কোনখন ৰাজ্যত অৱস্থিত ?

Options :

70819136851. কৰ্ণাটক

70819136852. উৰিষ্যা

70819136853. মহাৰাষ্ট্ৰ

70819136854. উত্তৰ প্ৰদেশ

Question Number : 47 Question Id : 70819111378 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 :

70819136855. North

70819136856. South

70819136857. East

70819136858. West

Question Number : 47 Question Id : 70819111378 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

দক্ষিণ গোলার্ধৰ ছায়াবিহীন পোহৰ কোন দিশৰ পৰা আহে ?

Options :

70819136855. উত্তৰ

70819136856. দক্ষিণ

70819136857. পূৰ্ব

70819136858. পশ্চিম

Question Number : 48 Question Id : 70819111379 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 :

70819136859. B.V. Doshi

70819136860. Laurie Baker

70819136861. Raj Rewal

70819136862. Achyut Kanvinde

Question Number : 48 Question Id : 70819111379 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

প্রথম ভাৰতীয় স্থাপত্যবিদ যিয়ে ২০১৮ প্ৰিট্জকাৰ পুৰস্কাৰ জয় কৰিছে :

Options :

70819136859. বি.ভি. দেশী

70819136860. লৰি বেকাৰ

70819136861. ৰাজ ৰিৱাল

70819136862. অচ্যুত কানবিন্দে

Question Number : 49 Question Id : 70819111380 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Word “Bungalow” has originated from :

Options :

70819136863. Bengalurm

70819136864. Banaras

70819136865. Bengal

70819136866. Bari

Question Number : 49 Question Id : 70819111380 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘বাংলো’ (Bungalow) শব্দটি ক’র পৰা লোৱা হৈছে ?

Options :

70819136863. বেংগালুৰু

70819136864. বেনাৰস

70819136865. বেংগল

70819136866. বাৰী

Question Number : 50 Question Id : 70819111381 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 :

70819136867. Laurie Baker

70819136868. Louis Kahn

70819136869. Lutyen

70819136870. Le Corbusier

Question Number : 50 Question Id : 70819111381 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

আই.আই.এম.-আহমেডাবাদ তলৰ কোনজন স্থাপত্যবিদে পৰিকল্পনা কৰিছে ?

Options :

70819136867. লৰি বেকাৰ

70819136868. লুই কাহন

70819136869. লুটিয়েন

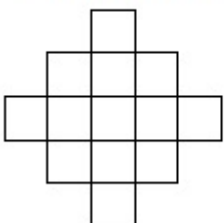
70819136870. লি কাৰবুছিয়াৰ

Question Number : 51 Question Id : 70819111382 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 :

70819136871. 14

70819136872. 13

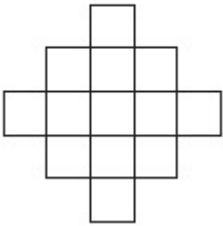
70819136873. 15

70819136874. 18

**Question Number : 51 Question Id : 70819111382 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত চিত্রত কেইটা চতুর্ভুজ আছে ?



Options :

70819136871. 14

70819136872. 13

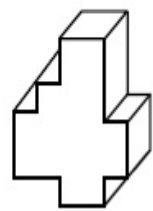
70819136873. 15

70819136874. 18

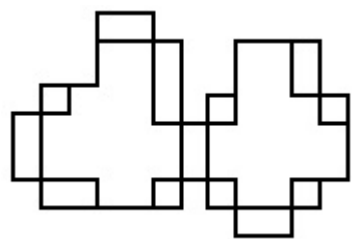
**Question Number : 52 Question Id : 70819111383 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

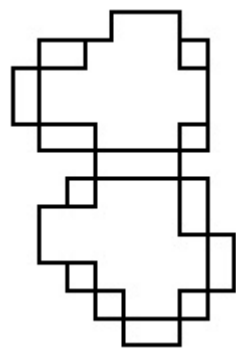
A drawing is provided with all the folds to construct the following three Dimensional object.
Select the correct one.



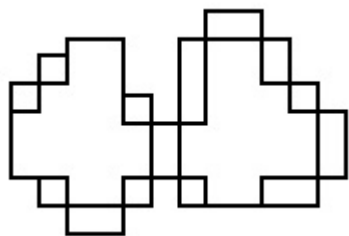
Options :



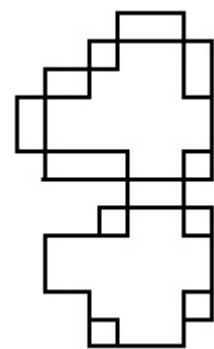
70819136875.



70819136876.



70819136877.



70819136878.

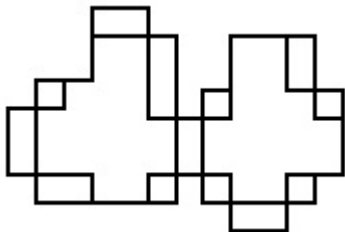
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

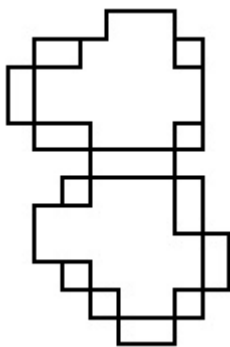
এটা চিত্র বহু ভাঁজ কবি তলত দিয়া 3D আকৃতি গঢ়ি তোলা হৈছে। সঠিক চিত্রটো বাছি উলিওৱা।



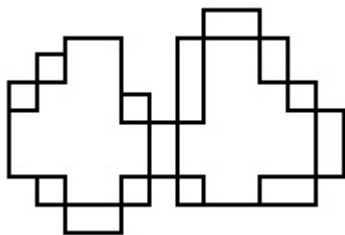
Options :



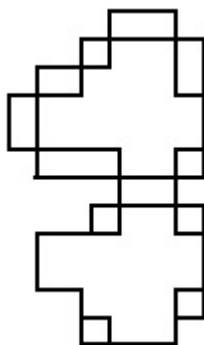
70819136875.



70819136876.



70819136877.

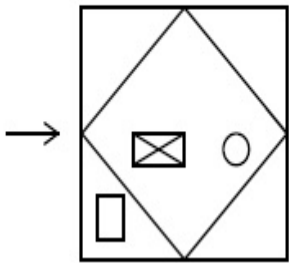


70819136878.

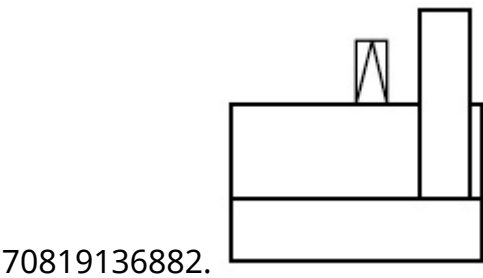
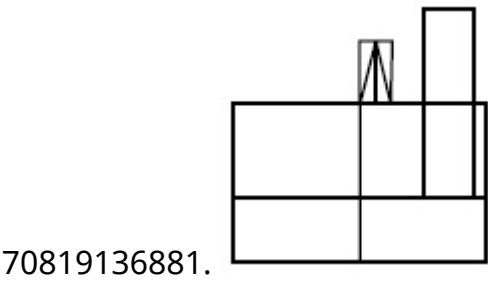
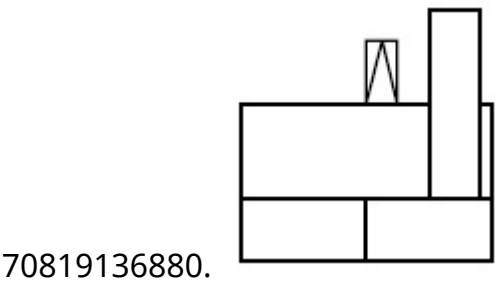
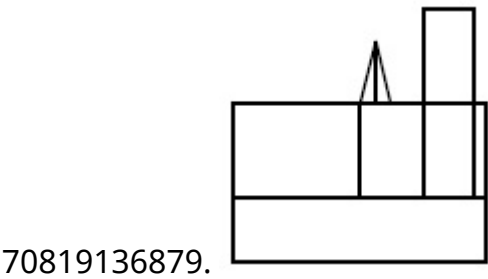
Question Number : 53 Question Id : 70819111384 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

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.



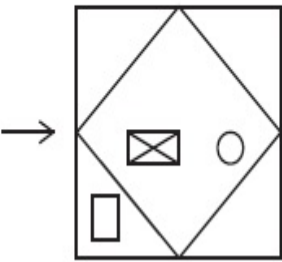
Options :



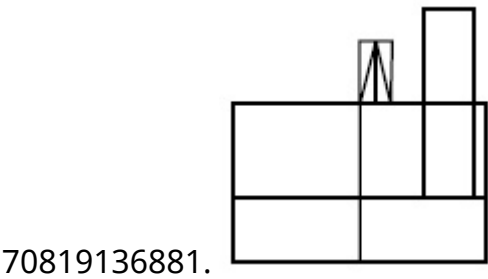
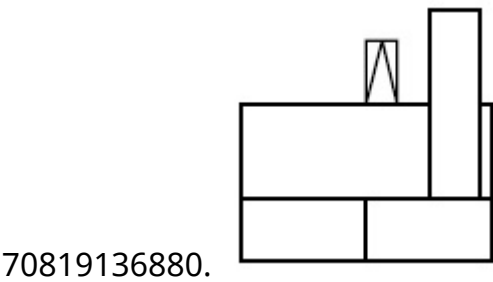
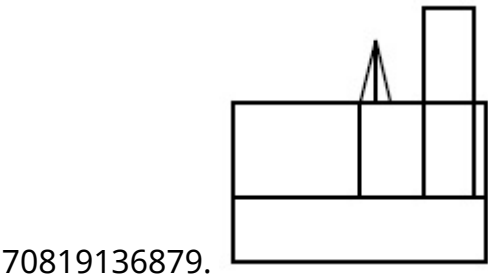
Question Number : 53 Question Id : 70819111384 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

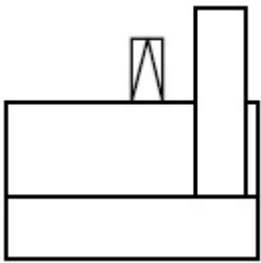
প্ৰশ্ন চিত্ৰটো এটা আকৃতিৰ উপৰ দিশৰ পৰা লোৱা হৈছে। তলৰ উত্তৰ চিত্ৰসমূহৰ, কাঁড় চিহ্নৰ দিশৰ পৰা সঠিক চিত্ৰটো চিনাক্ত কৰা।



Options :



70819136882.

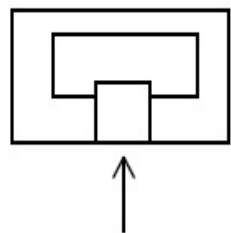


Question Number : 54 Question Id : 70819111385 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

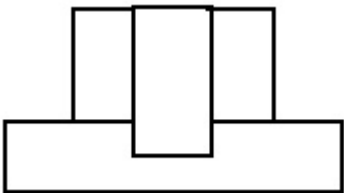
Correct Marks : 4 Wrong Marks : 1

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

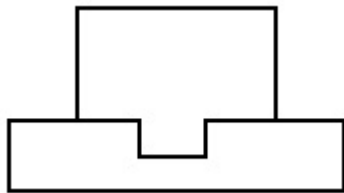


Options :

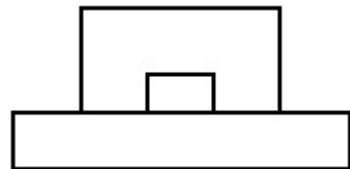
70819136883.



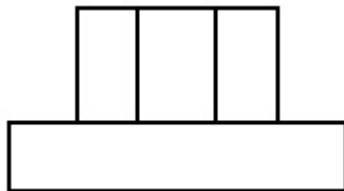
70819136884.



70819136885.



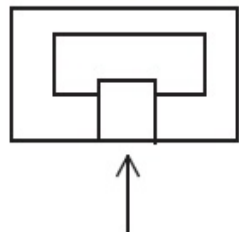
70819136886.



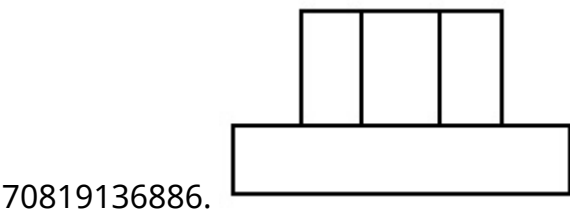
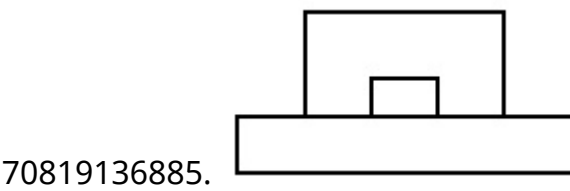
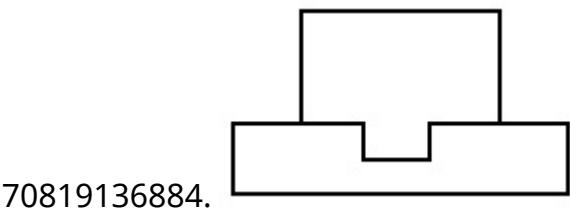
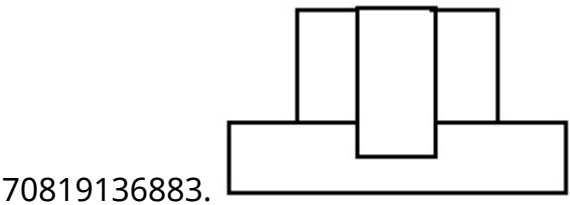
Question Number : 54 Question Id : 70819111385 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

এই প্রশ্নচিত্রটো এটা আকৃতিৰ ওপৰৰ পৰা লোৱা চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা, শুদ্ধ উত্তৰ চিত্ৰটো বাছি উলিওৱা।



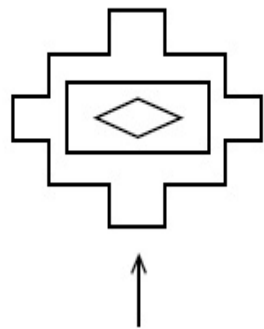
Options :



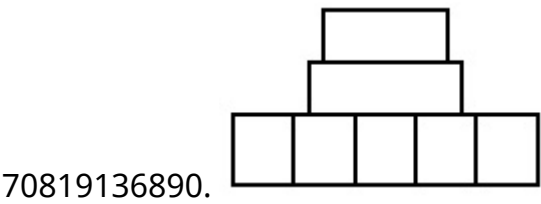
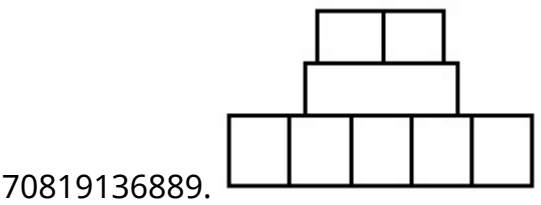
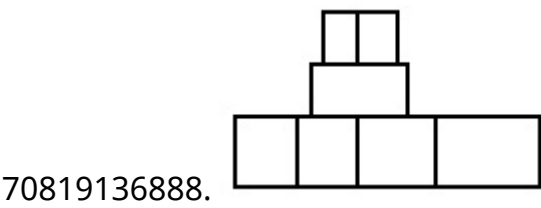
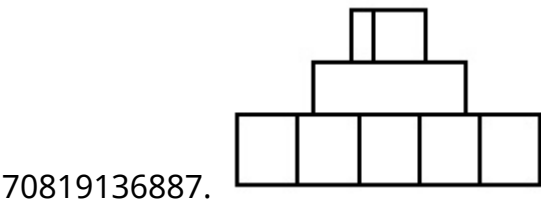
Question Number : 55 Question Id : 70819111386 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



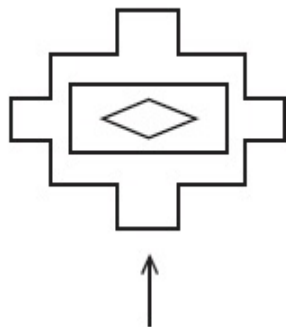
Options :



Question Number : 55 Question Id : 70819111386 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

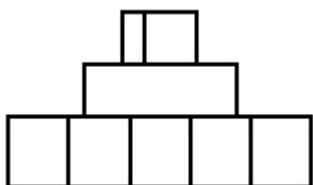
Correct Marks : 4 Wrong Marks : 1

এই প্রশ্নচিত্রটো এটা বস্তুৰ ওপৰৰ পৰা তোলা চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা, শুদ্ধ উত্তৰ চিত্ৰটো চিনাক্ত কৰা।

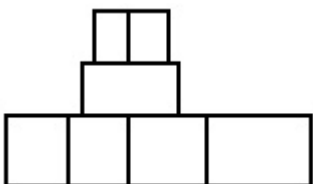


Options :

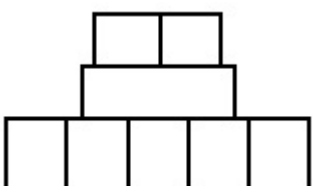
70819136887.



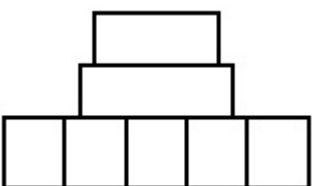
70819136888.



70819136889.



70819136890.

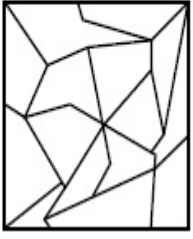


Question Number : 56 Question Id : 70819111387 Question Type : MCQ Option Shuffling : Yes

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 :

70819136891.

70819136892.

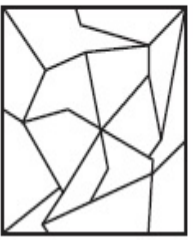
70819136893.

70819136894.

Question Number : 56 Question Id : 70819111387 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত উত্তৰ চিত্ৰৰ যিকোনো এটা চিত্ৰ প্ৰশ্ন চিত্ৰত লুকাই আছে যাৰ একে সমান মাপ আৰু দিশ আছে। সঠিক চিত্ৰটো চিনাক্ত কৰা।



Options :

70819136891.

70819136892.



70819136893.



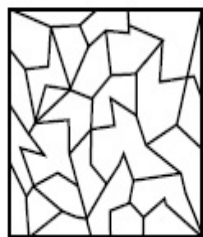
70819136894.



Question Number : 57 Question Id : 70819111388 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 :

70819136895.



70819136896.



70819136897.



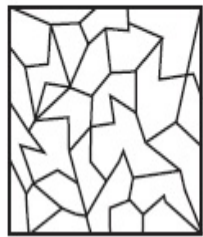
70819136898.



Question Number : 57 Question Id : 70819111388 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত চিত্রৰ যিকোনো এটা চিত্র প্ৰশ্ন চিত্ৰত লুকাই আছে যাৰ একে মাপ আৰু একে দিশ আছে। সঠিক চিত্ৰটো চিনাক্ত কৰা।



Options :

70819136895.

70819136896.

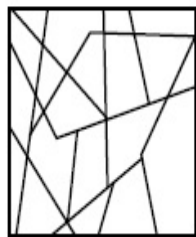
70819136897.

70819136898.

Question Number : 58 Question Id : 70819111389 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 :

70819136899.



70819136900.



70819136901.



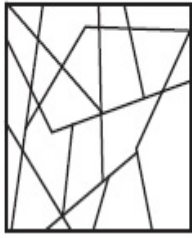
70819136902.



Question Number : 58 Question Id : 70819111389 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত চিত্রের যেকোনো এটা চিত্র প্রশ্ন চিত্রত লুকাই আছে, যার একে মাপ আৰ একে দিশ আছে। সঠিক চিত্রটো চিনাক্ত
কৰা।



Options :

70819136899.



70819136900.



70819136901.



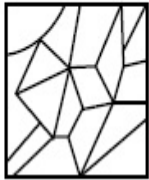
70819136902.



Question Number : 59 Question Id : 70819111390 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 :

70819136903.

70819136904.

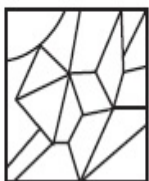
70819136905.

70819136906.

Question Number : 59 Question Id : 70819111390 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত চিত্রৰ যিকোনো এটা চিত্ৰ প্ৰশ্ন চিত্ৰত লুকাই আছে, যাৰ একে মাপ আৰু একে দিশ আছে। সঠিক চিত্ৰটো চিনাক্ত
কৰা।



Options :

70819136903.

70819136904.



70819136905.



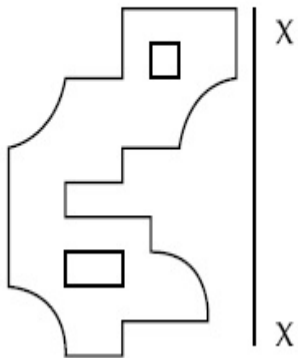
70819136906.



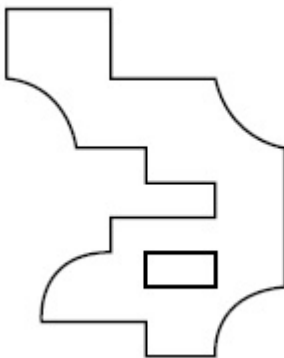
Question Number : 60 Question Id : 70819111391 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

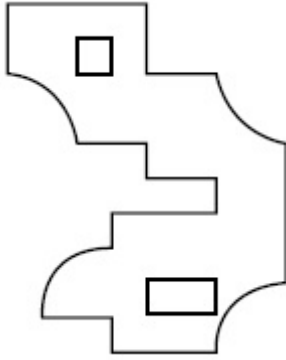
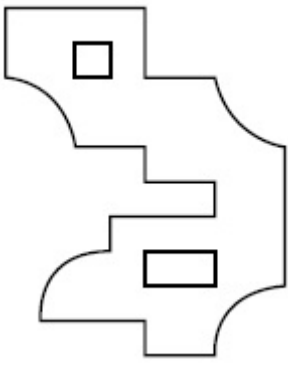


Options :

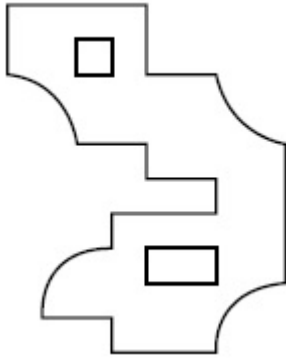


70819136907.

70819136908.



70819136909.



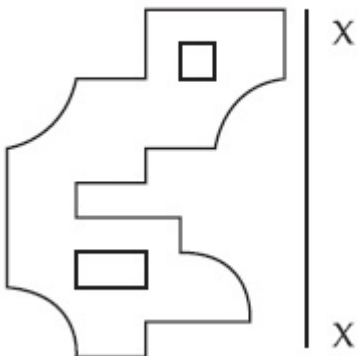
70819136910.

Question Number : 60 Question Id : 70819111391 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

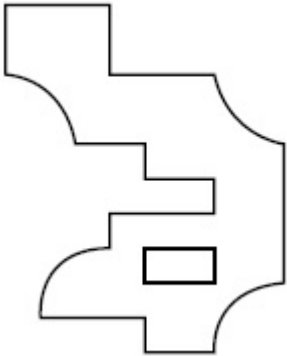
Correct Marks : 4 Wrong Marks : 1

তলৰ কোনটো প্ৰতিকৃতি প্ৰস্তুত দিয়া চিত্ৰৰ X-X ৰেখাৰ সাপেক্ষে শুদ্ধ প্ৰতিবিন্দ ?

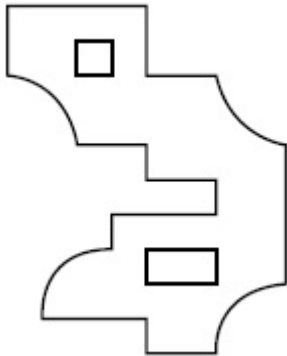


Options :

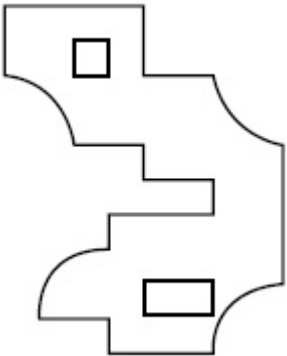
70819136907.



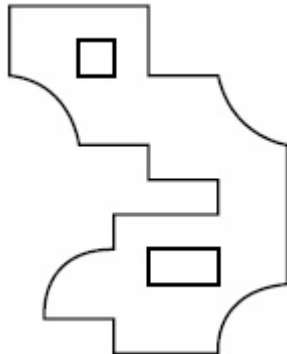
70819136908.



70819136909.

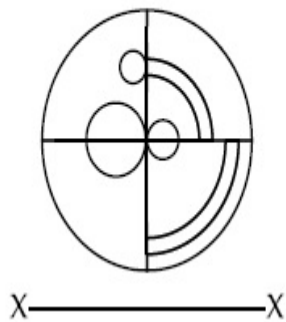


70819136910.

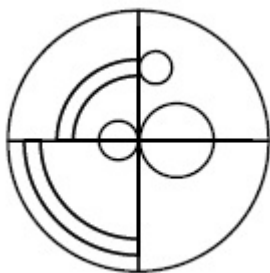


Correct Marks : 4 Wrong Marks : 1

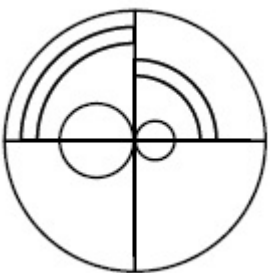
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



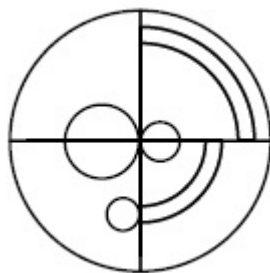
Options :



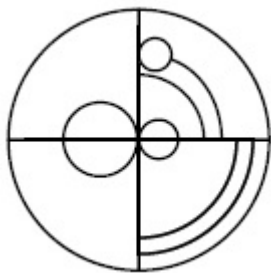
70819136911.



70819136912.



70819136913.

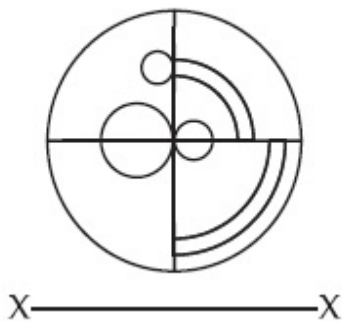


70819136914.

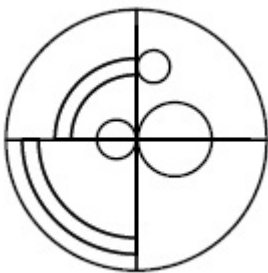
Question Number : 61 Question Id : 70819111392 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

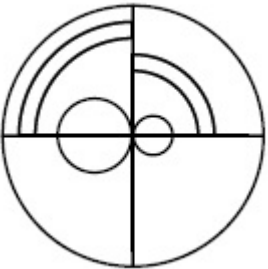
নিম্ন অঙ্কিত চিত্রৰ মাজৰ কোনটো চিত্র প্রশ্নত দিয়া চিত্রৰ X-X ৰেখাৰ পৰিপ্ৰেক্ষিতত শুদ্ধ প্ৰতিবিন্দু ?



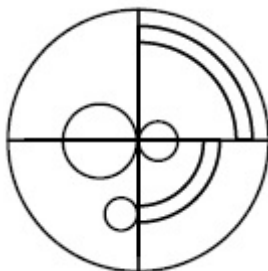
Options :



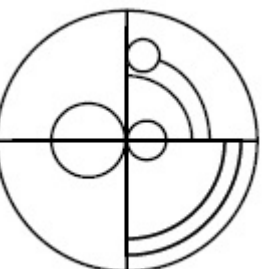
70819136911.



70819136912.



70819136913.

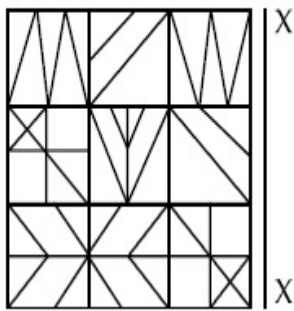


70819136914.

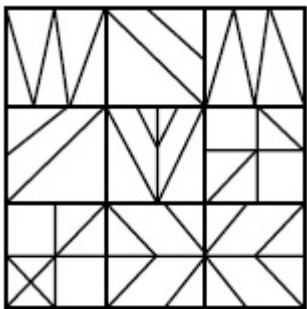
Question Number : 62 Question Id : 70819111393 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

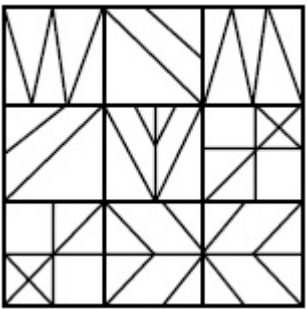
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



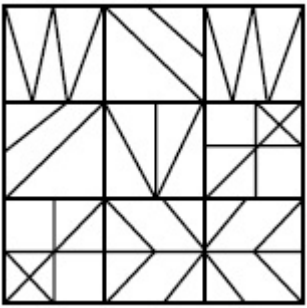
Options :



70819136915.

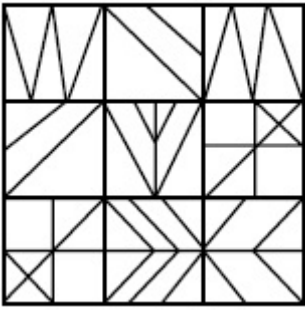


70819136916.



70819136917.

70819136918.

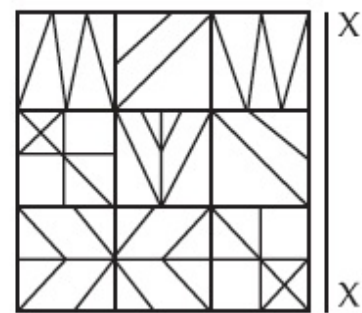


Question Number : 62 Question Id : 70819111393 Question Type : MCQ Option Shuffling : Yes

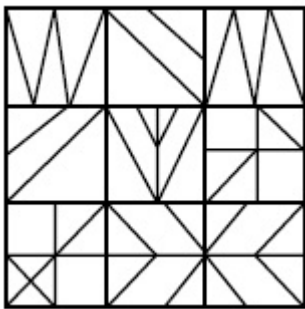
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

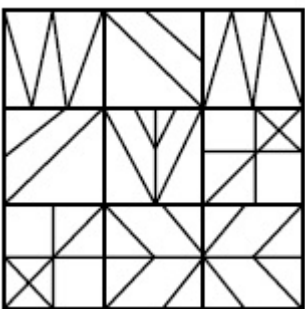
নিম্ন অঙ্কিত চিত্রৰ মাজৰ কোনটো চিত্ৰ প্ৰশ্নত দিয়া চিত্ৰৰ X-X ৰেখাৰ পৰিপ্ৰেক্ষিতত শুদ্ধ প্ৰতিবিস্ত ?



Options :

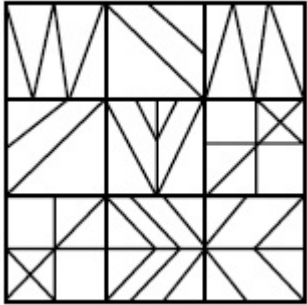
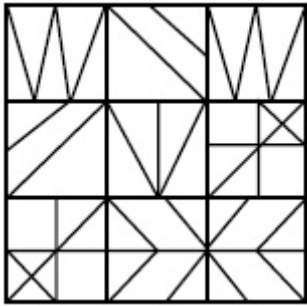


70819136915.



70819136916.

70819136917.

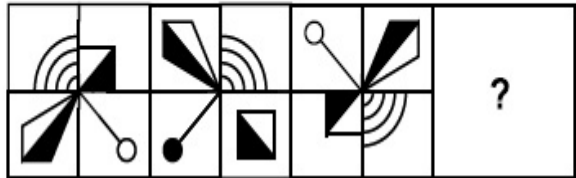


70819136918.

Question Number : 63 Question Id : 70819111394 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 :



70819136919.



70819136920.

70819136921.



70819136922.

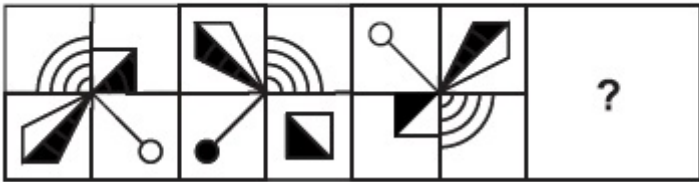


Question Number : 63 Question Id : 70819111394 Question Type : MCQ Option Shuffling : Yes

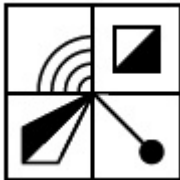
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

চিনাক্ত কৰা তলৰ কোনটো চিত্ৰই প্ৰদত্ত দিয়া চিত্ৰৰ অনুক্ৰম সম্পূৰ্ণ কৰিব ?



Options :



70819136919.



70819136920.



70819136921.

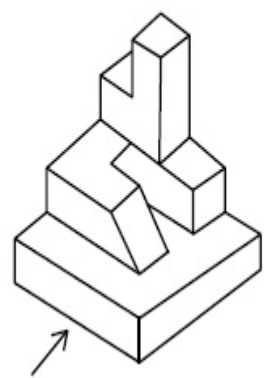
70819136922.



Question Number : 64 Question Id : 70819111395 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

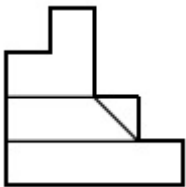
Correct Marks : 4 Wrong Marks : 1

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

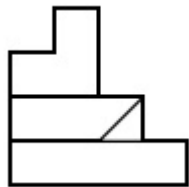


Options :

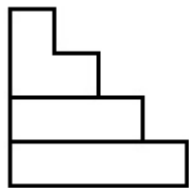
70819136923.



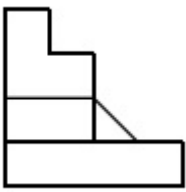
70819136924.



70819136925.

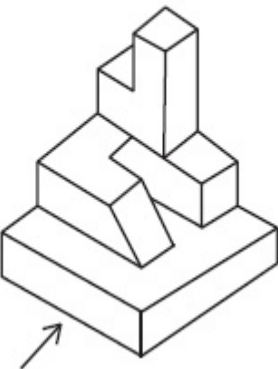


70819136926.

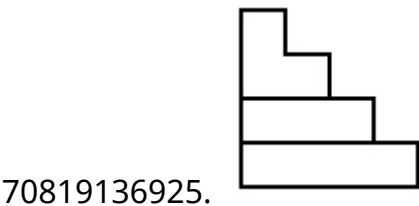
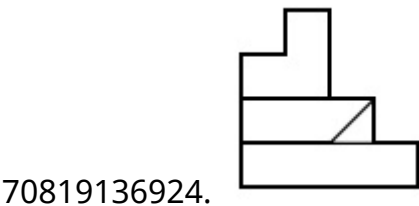
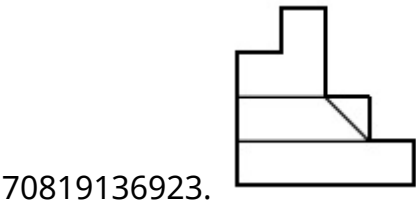


Question Number : 64 **Question Id : 70819111395** **Question Type : MCQ** **Option Shuffling : Yes**
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

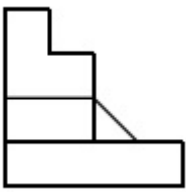
প্রশ্নত দিয়া ছবিটো এটা 3D আকৃতি। কাঁড় চিহ্নৰ দিশৰ পৰা তলৰ কোনটো চিত্ৰ শুদ্ধ হ'ব, বাছি উলিওৱা।



Options :



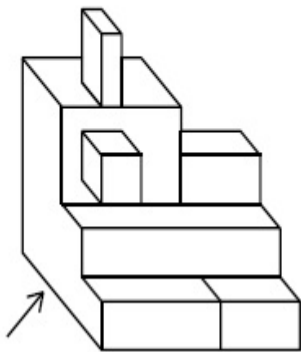
70819136926.



Question Number : 65 Question Id : 70819111396 Question Type : MCQ Option Shuffling : Yes
 Is Question Mandatory : No

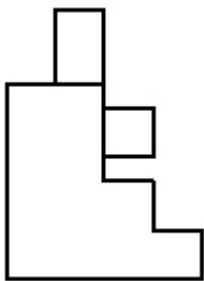
Correct Marks : 4 Wrong Marks : 1

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

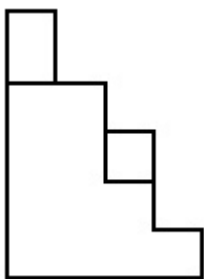


Options :

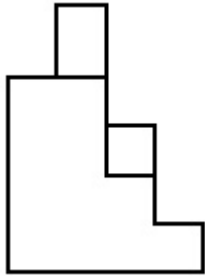
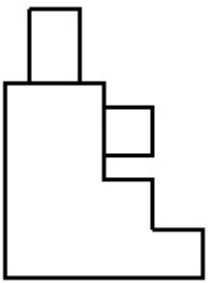
70819136927.



70819136928.



70819136929.



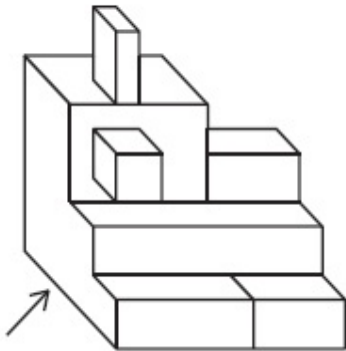
70819136930.

Question Number : 65 Question Id : 70819111396 Question Type : MCQ Option Shuffling : Yes

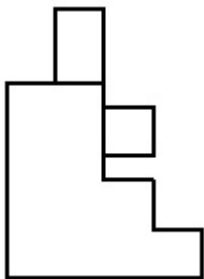
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তলত দিয়া চিত্ৰটো 3D চিত্ৰ হয়। কাঁড় চিহ্নৰ দিশৰ পৰা তলৰ কোনটো চিত্ৰ শুদ্ধ হ'ব, বাছি উলিওৱা।

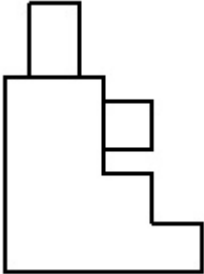
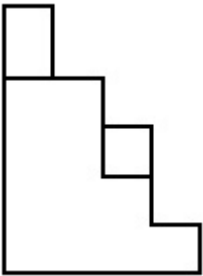


Options :

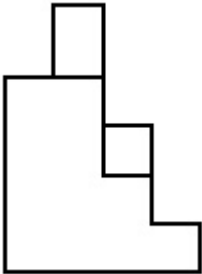


70819136927.

70819136928.



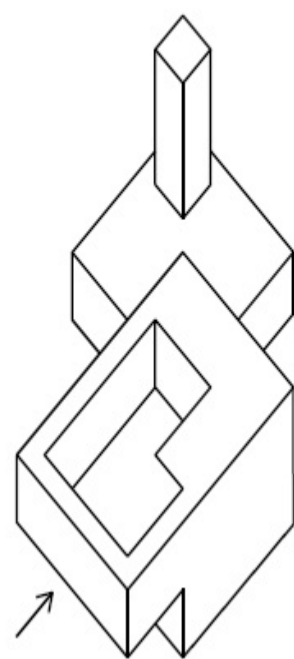
70819136929.



70819136930.

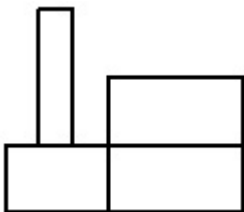
Question Number : 66 Question Id : 70819111397 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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

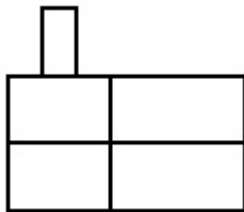


Options :

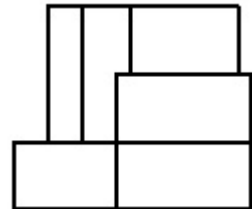
70819136931.



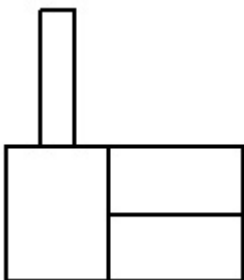
70819136932.



70819136933.



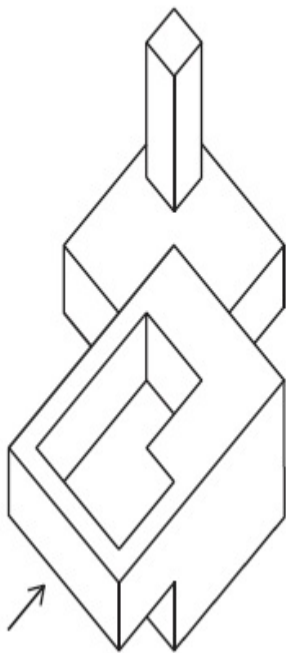
70819136934.



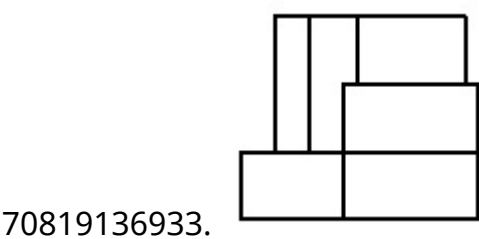
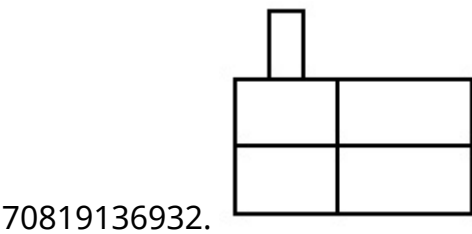
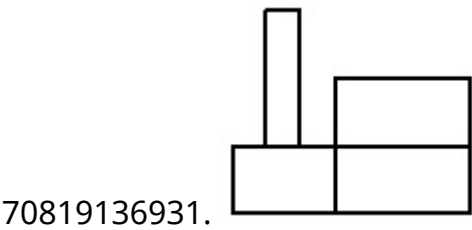
Question Number : 66 Question Id : 70819111397 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

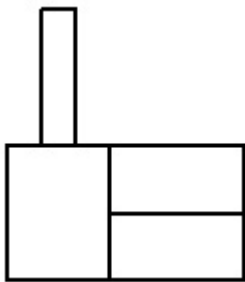
প্ৰশ্নত দিয়া ছবিটো এটা 3D আকৃতিৰ ছবি। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ শুদ্ধ চিত্ৰটো বাছি
উলিওৱা।



Options :



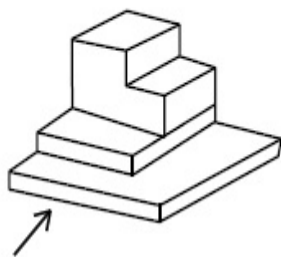
70819136934.



Question Number : 67 Question Id : 70819111398 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

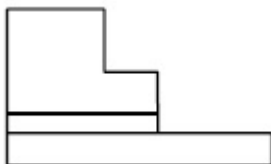
Correct Marks : 4 Wrong Marks : 1

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

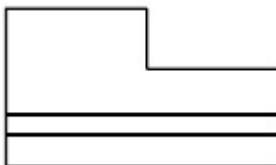


Options :

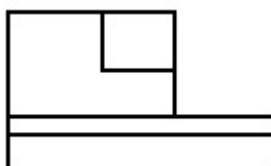
70819136935.



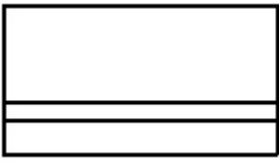
70819136936.



70819136937.

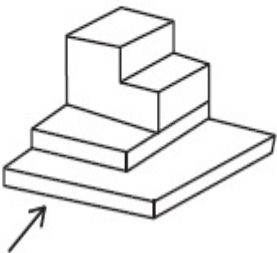


70819136938.



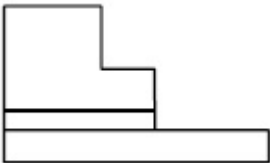
Question Number : 67 **Question Id : 70819111398** **Question Type : MCQ** **Option Shuffling : Yes**
Is Question Mandatory : No
Correct Marks : 4 **Wrong Marks : 1**

তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি
 উলিওৱা।

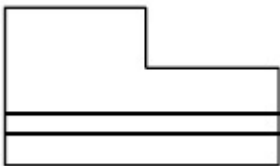


Options :

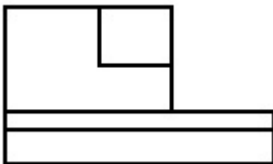
70819136935.



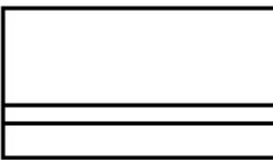
70819136936.



70819136937.



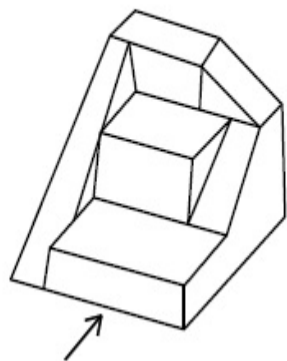
70819136938.



Question Number : 68 Question Id : 70819111399 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

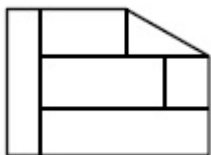
Correct Marks : 4 Wrong Marks : 1

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

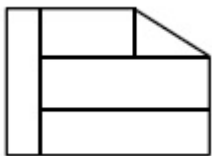


Options :

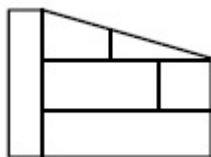
70819136939.



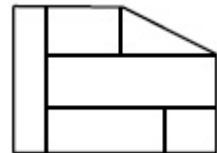
70819136940.



70819136941.



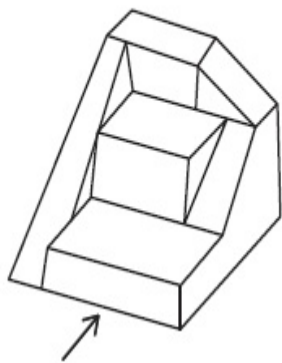
70819136942.



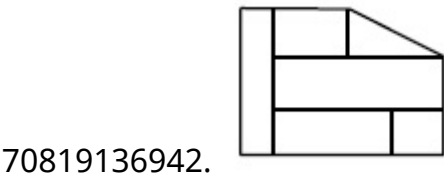
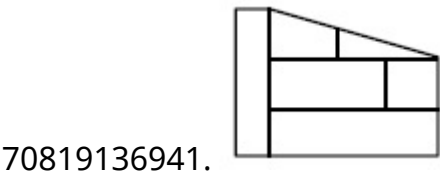
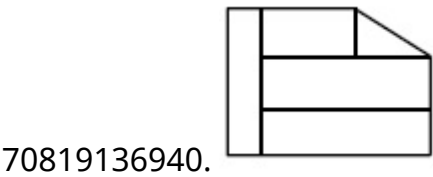
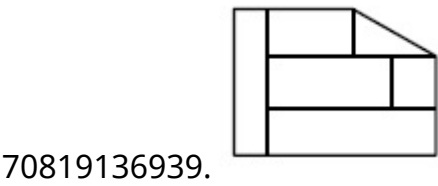
Question Number : 68 Question Id : 70819111399 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।



Options :

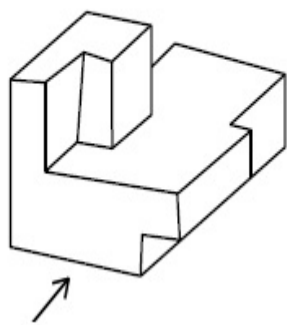


Question Number : 69 Question Id : 70819111400 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

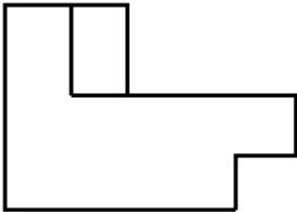
Correct Marks : 4 Wrong Marks : 1

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

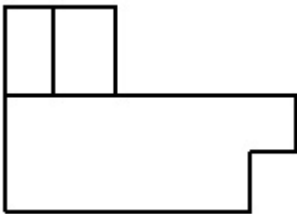


Options :

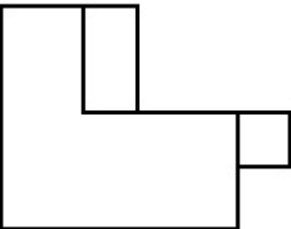
70819136943.



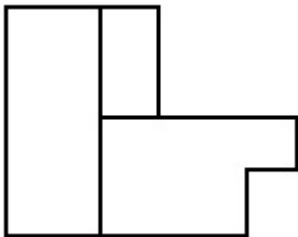
70819136944.



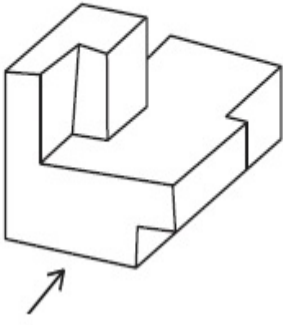
70819136945.



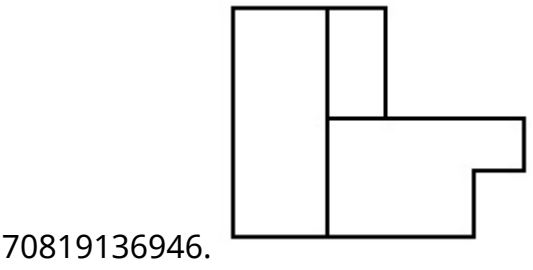
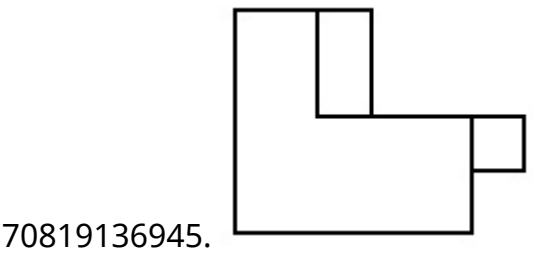
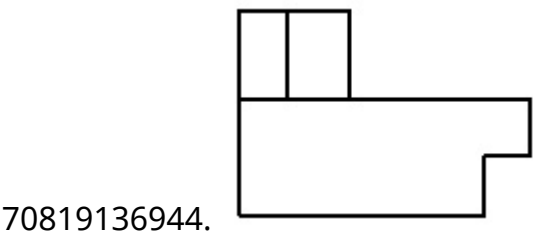
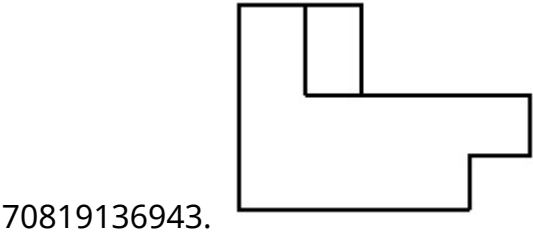
70819136946.



তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।

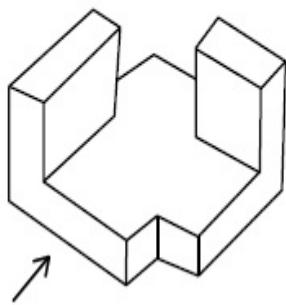


Options :

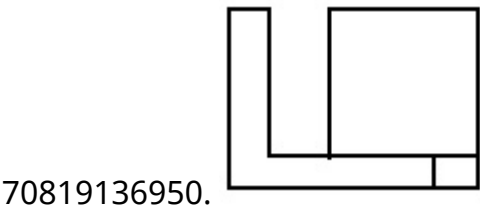
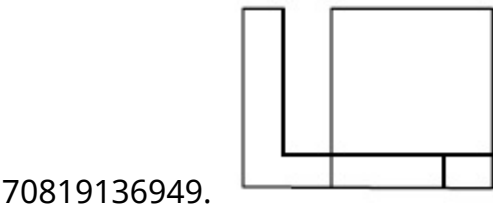
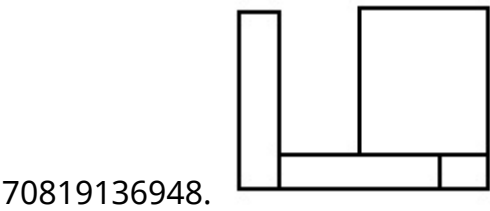
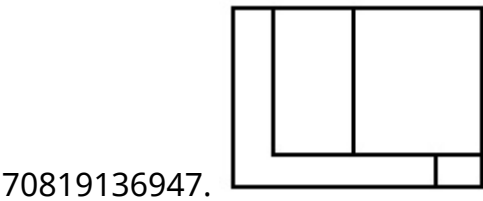


Correct Marks : 4 Wrong Marks : 1

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



Options :

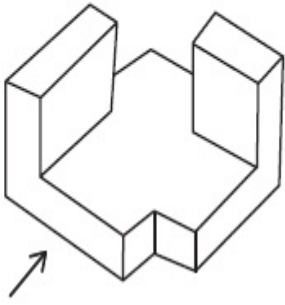


Question Number : 70 Question Id : 70819111401 Question Type : MCQ Option Shuffling : Yes

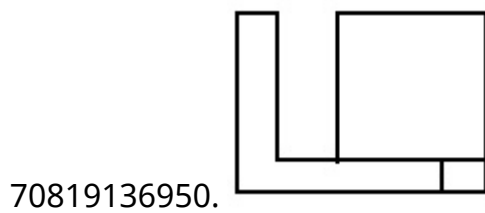
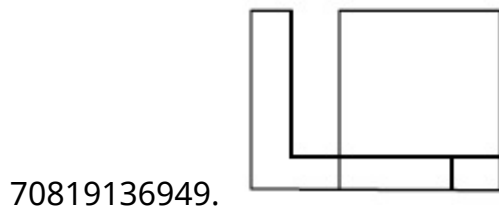
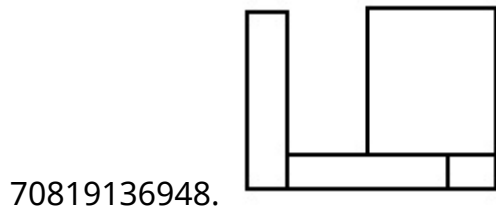
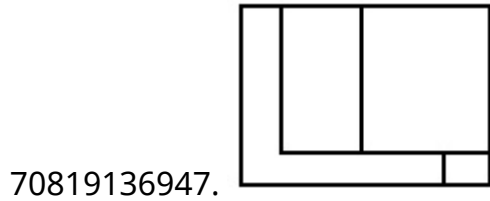
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।



Options :

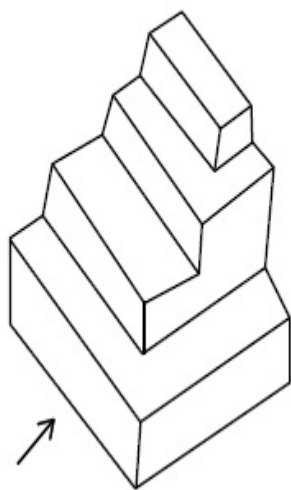


Question Number : 71 Question Id : 70819111402 Question Type : MCQ Option Shuffling : Yes

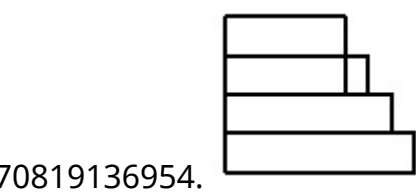
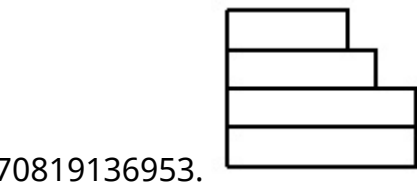
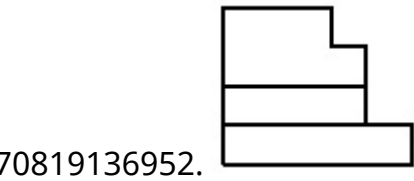
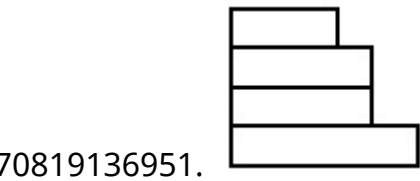
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

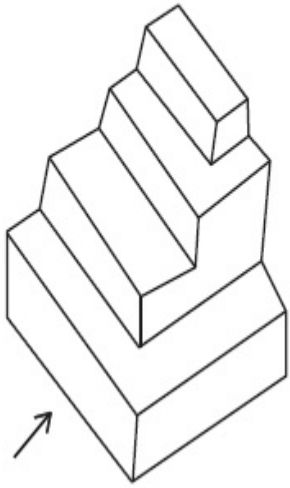
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



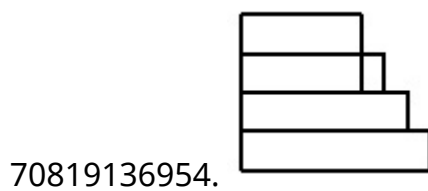
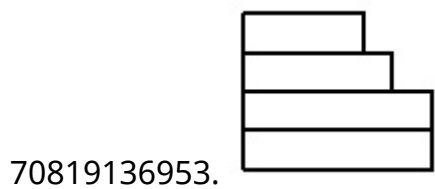
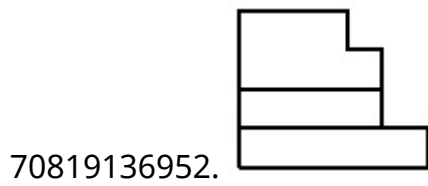
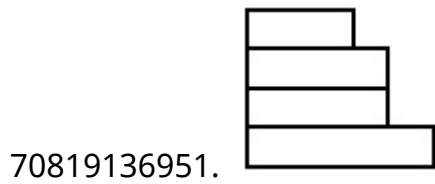
Options :



তলত দিয়া চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।



Options :

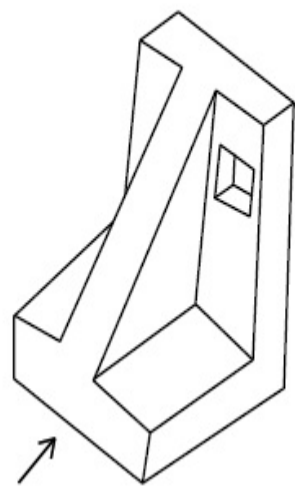


Question Number : 72 Question Id : 70819111403 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

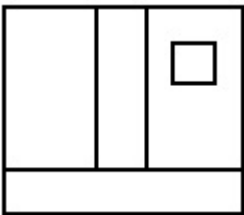
Correct Marks : 4 Wrong Marks : 1

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

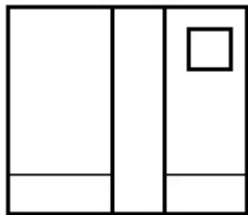


Options :

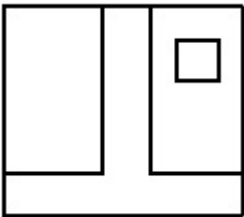
70819136955.



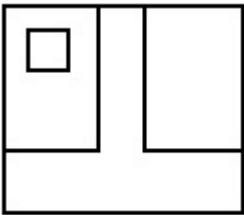
70819136956.



70819136957.



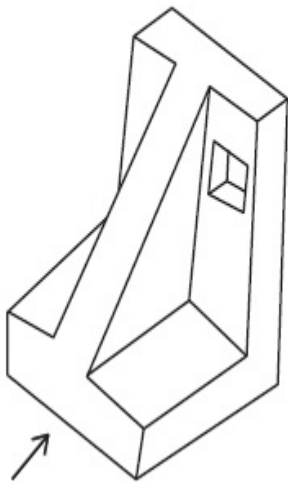
70819136958.



Is Question Mandatory : No

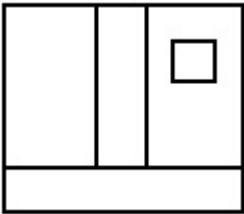
Correct Marks : 4 Wrong Marks : 1

তলত দিয়া চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশৰ পৰা সেই দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।

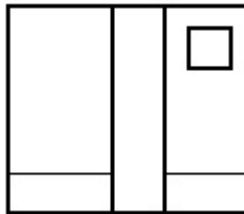


Options :

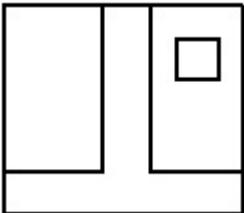
70819136955.



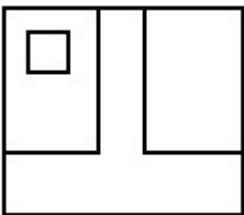
70819136956.



70819136957.



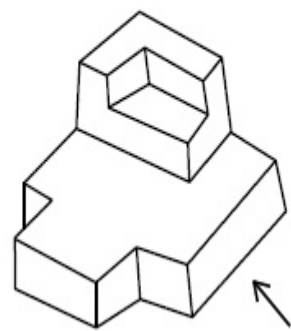
70819136958.



Question Number : 73 Question Id : 70819111404 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

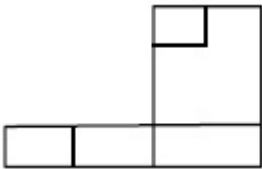
Correct Marks : 4 Wrong Marks : 1

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

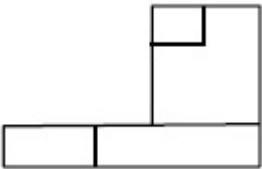


Options :

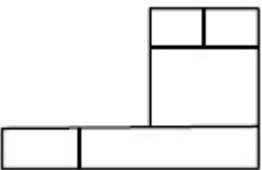
70819136959.



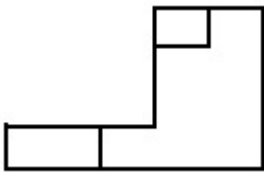
70819136960.



70819136961.



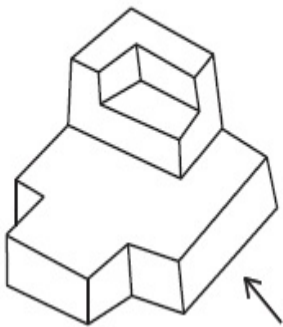
70819136962.



Question Number : 73 Question Id : 70819111404 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

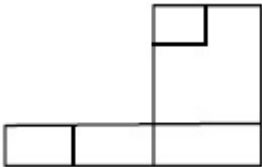
Correct Marks : 4 Wrong Marks : 1

তলত দিয়া চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।

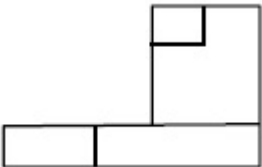


Options :

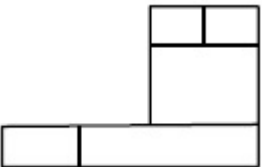
70819136959.



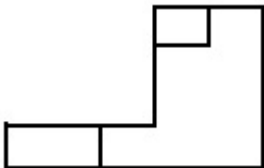
70819136960.



70819136961.



70819136962.

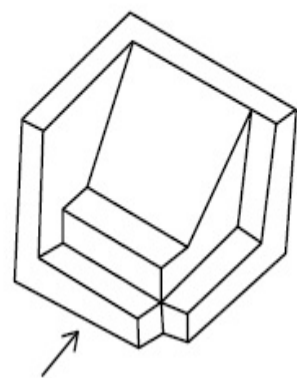


Question Number : 74 Question Id : 70819111405 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

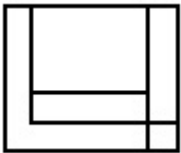
Correct Marks : 4 Wrong Marks : 1

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

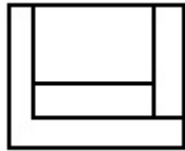


Options :

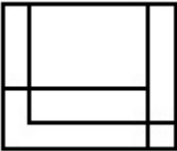
70819136963.



70819136964.



70819136965.

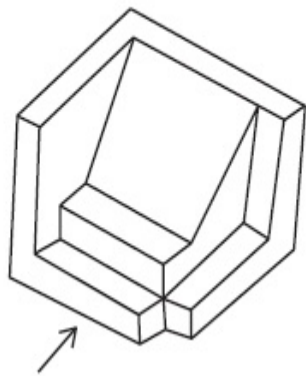


70819136966.



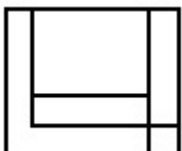
Question Number : 74 Question Id : 70819111405 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। কাঁড় চিহ্নৰ দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটো বাছি উলিওৱা।

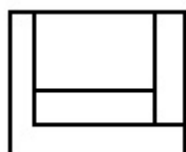


Options :

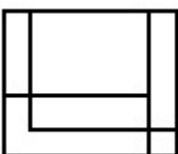
70819136963.



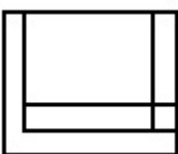
70819136964.



70819136965.



70819136966.

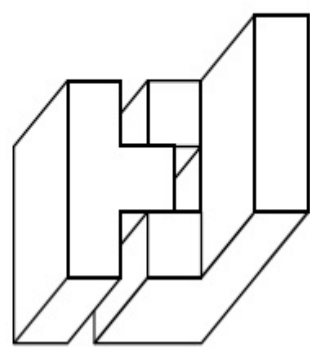


Question Number : 75 Question Id : 70819111406 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

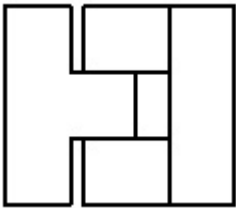
Correct Marks : 4 Wrong Marks : 1

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

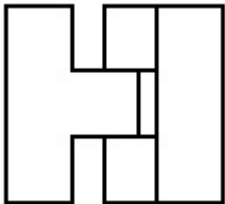


Options :

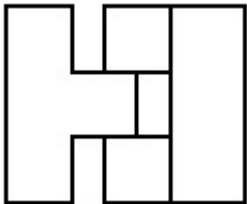
70819136967.



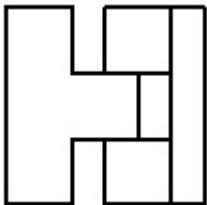
70819136968.



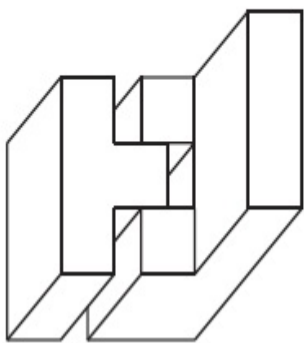
70819136969.



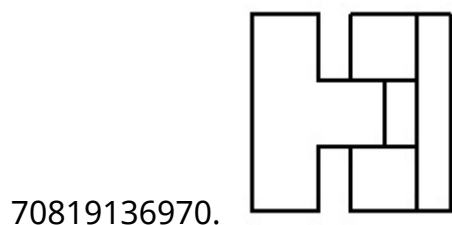
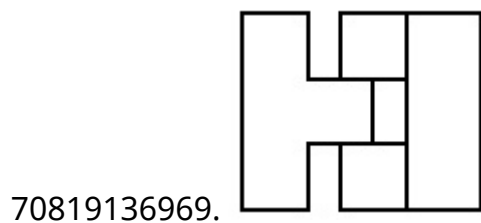
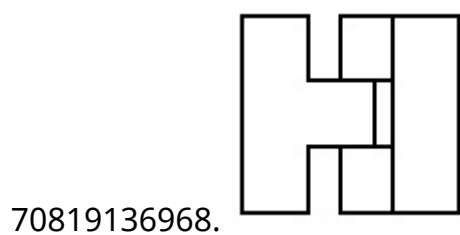
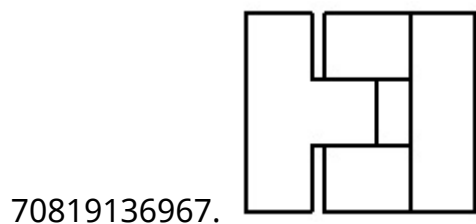
70819136970.



তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। তলত দিয়া চিত্ৰৰ মাজৰ পৰা, ওপৰৰ পৰা লোৱা দিশত শুদ্ধ চিত্ৰটো বাছি উলিওৱা।



Options :

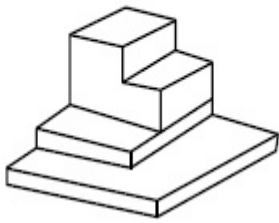


Question Number : 76 Question Id : 70819111407 Question Type : MCQ Option Shuffling : Yes

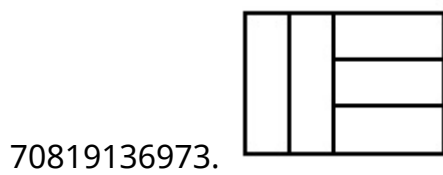
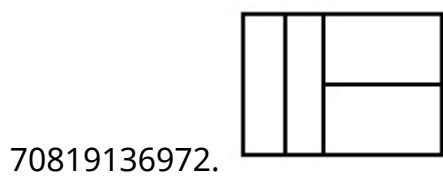
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

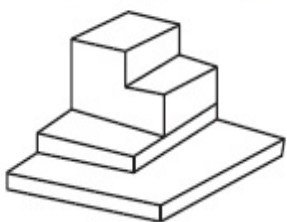


Question Number : 76 Question Id : 70819111407 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

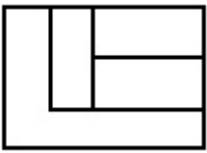
Correct Marks : 4 Wrong Marks : 1

তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। তলত দিয়া চিত্ৰৰ মাজৰ পৰা, ওপৰৰ পৰা লোৱা দিশত শুদ্ধ চিত্ৰটো বাছি উলিওৱা।



Options :

70819136971.



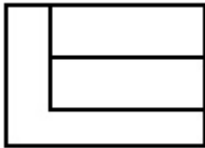
70819136972.



70819136973.



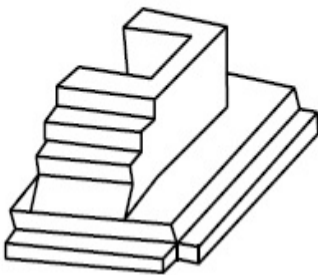
70819136974.



Question Number : 77 Question Id : 70819111408 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

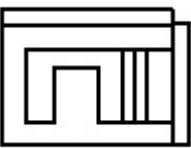
Correct Marks : 4 Wrong Marks : 1

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

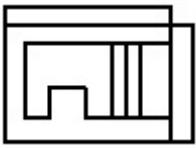


Options :

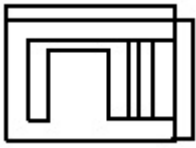
70819136975.



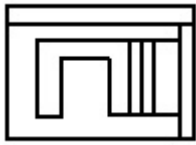
70819136976.



70819136977.



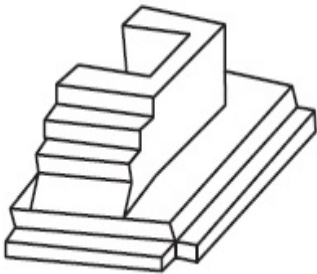
70819136978.



Question Number : 77 Question Id : 70819111408 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

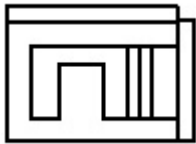
Correct Marks : 4 Wrong Marks : 1

তলৰ চিত্ৰটো এটা 3D আকৃতিৰ চিত্ৰ। উপৰৰ পৰা লোৱা দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটি বাছি উলিওৱা।

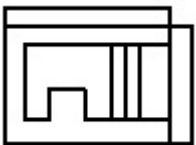


Options :

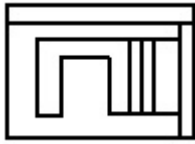
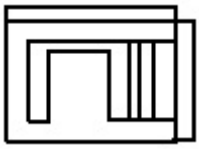
70819136975.



70819136976.



70819136977.



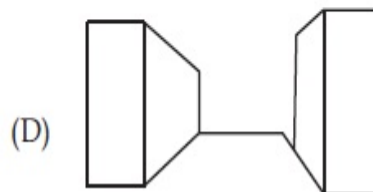
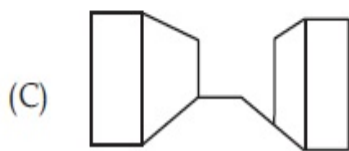
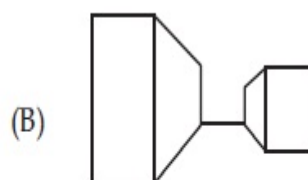
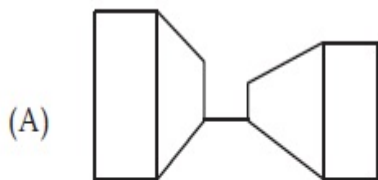
70819136978.

Question Number : 78 Question Id : 70819111409 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 :

70819136979. (A) and (B)

70819136980. (B) and (C)

70819136981. (C) and (D)

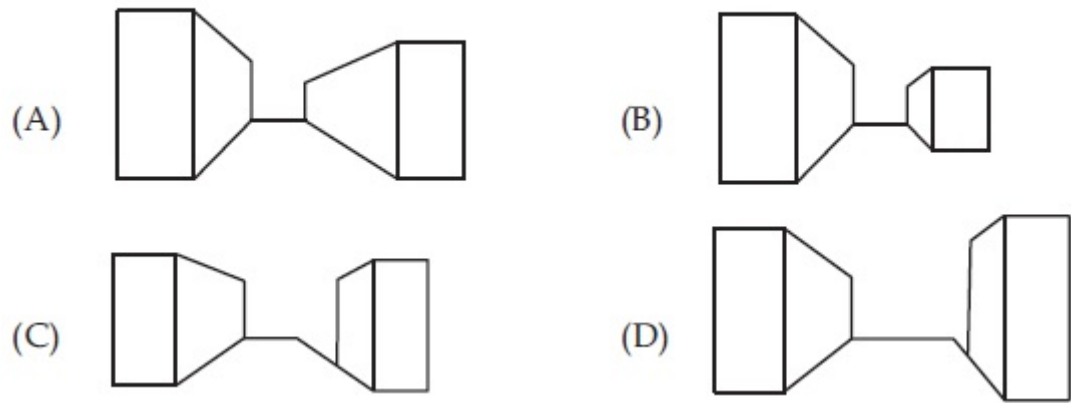
70819136982. (D) and (A)

Question Number : 78 Question Id : 70819111409 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্ন অঙ্কিত বিল্ডিং ৰচনাৰ কোনটোৱে সকলোতকৈ কম দৃশ্যমানভাৱে উদ্ভেগ সৃষ্টি কৰিছে ?



Options :

70819136979. (A) আৰু (B)

70819136980. (B) আৰু (C)

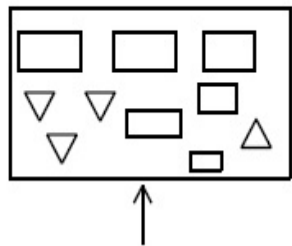
70819136981. (C) আৰু (D)

70819136982. (D) আৰু (A)

Question Number : 79 Question Id : 70819111410 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.

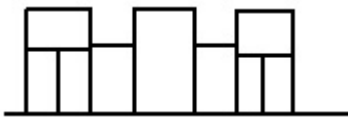


Options :

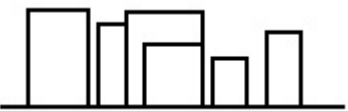


70819136983.

70819136984.



70819136985.



70819136986.

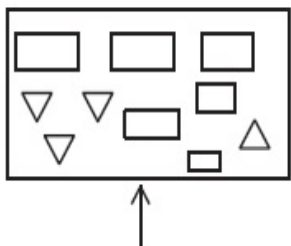


Question Number : 79 Question Id : 70819111410 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

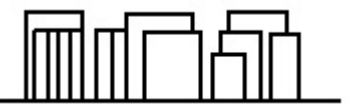
Correct Marks : 4 Wrong Marks : 1

তলৰ চিত্ৰটো এটা উপৰৰ পৰা তোলা চিত্ৰ। কাঁড় চিহ্নৰ দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটি বাছি উলিওৱা।

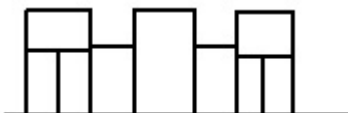


Options :

70819136983.



70819136984.



70819136985.



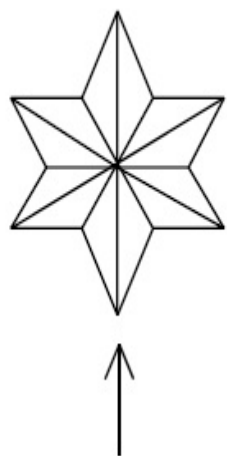
70819136986.



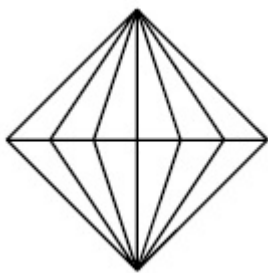
Question Number : 80 Question Id : 70819111411 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

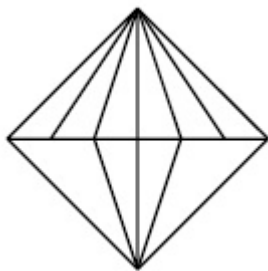
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



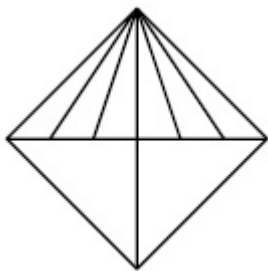
Options :



70819136987.

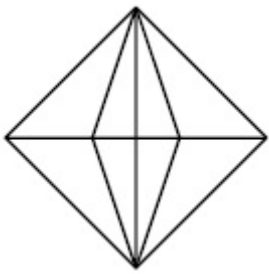


70819136988.



70819136989.

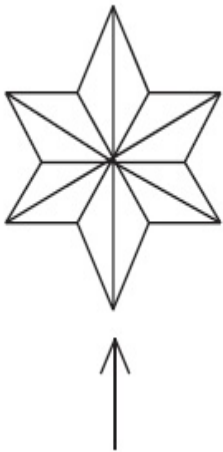
70819136990.



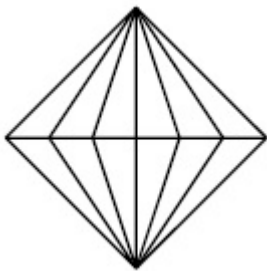
Question Number : 80 Question Id : 70819111411 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

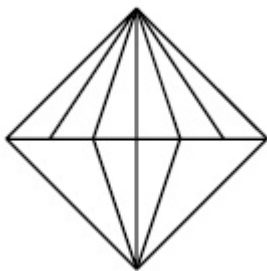
তলৰ চিত্ৰটো এটা উপৰৰ পৰা তোলা চিত্ৰ। কাঁড় চিহ্নৰ দিশত তলত দিয়া চিত্ৰৰ মাজৰ পৰা শুদ্ধ চিত্ৰটি বাছি উলিওৱা।



Options :

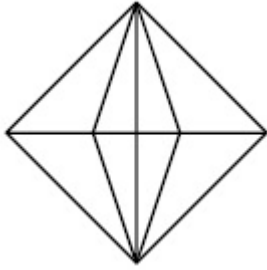
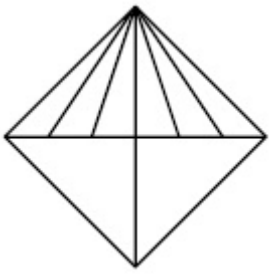


70819136987.



70819136988.

70819136989.



70819136990.

Drawing

Section Id :	708191384
Section Number :	4
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 :	708191664
Question Shuffling Allowed :	No

Question Number : 81 Question Id : 70819111412 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 : 81 Question Id : 70819111412 Question Type : SUBJECTIVE

Correct Marks : 50

প্ৰদত্ত ৰেফাৰেন্স চিত্ৰৰ একে অনুপাতত ছবি এটা অংকন কৰা, নিজৰ পছন্দৰ যিকোনো বগা আৰু ক'লা বৰ্ণন কৌশল ব্যৱহাৰ কৰিব।

অথবা

চিত্ৰটোৰ অৰ্থোদ্ধাৰ কৰা আৰু নিজৰ পছন্দৰ সাজত যিকোনো বগা আৰু ক'লা কৌশল ব্যৱহাৰ কৰি এটা সম্বলিত সংৰচনা অংকন কৰা।



Question Number : 82 Question Id : 70819111413 Question Type : SUBJECTIVE

Correct Marks : 50

Draw a scene of a Kite festival by using colors.

OR

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

(i) CUBOID A : SIZE $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 5 Nos.

(ii) CUBOID B : SIZE $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 4 Nos.

Use 'Cool Colorscheme' for composition.

Question Number : 82 Question Id : 70819111413 Question Type : SUBJECTIVE

Correct Marks : 50

ৰঙৰ ব্যৱহাৰ কৰি চিলা মহোৎসৱৰ এটা দৃশ্যৰ ছবি আঁকা।

নাইবা

তলত দিয়া দুই প্ৰকাৰৰ আকৃতি ব্যৱহাৰ কৰি এটা সামঞ্জস্য থকা তিনি মাত্ৰিক সংৰচনা এটা অংকন কৰা।

(i) ঘন A : মাপ $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 5টা

(ii) ঘন B : মাপ $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 4টা

“শীত ৰংসংগতি”ৰ প্ৰয়োগ কৰা।