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<b>Question Paper Name :</b>	B PLANNING AND B ARCH EB 23rd Feb 2021 Shift 2
<b>Subject Name :</b>	B PLANNING AND B ARCH EB
<b>Creation Date :</b>	2021-02-22 21:09:18
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## **B PLANNING AND B ARCH EB**

<b>Group Number :</b>	1
<b>Group Id :</b>	708191157
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	210
<b>Show Attended Group? :</b>	No
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<b>Break time :</b>	0
<b>Group Marks :</b>	500
<b>Is this Group for Examiner? :</b>	No

## **Mathematics Section A**

<b>Section Id :</b>	708191525
<b>Section Number :</b>	1
<b>Section type :</b>	Online

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191805
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 70819114619 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 :**

70819148661.  $\frac{121}{3}$

70819148662.  $\frac{122}{3}$

70819148663.  $\frac{125}{3}$

70819148664.  $\frac{128}{3}$

**Question Number : 1 Question Id : 70819114619 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

সমাকলন,  $\int_{-4}^4 |9-x^2| dx$  এর মান হবে :

**Options :**

70819148661.  $\frac{121}{3}$

70819148662.  $\frac{122}{3}$

70819148663.  $\frac{125}{3}$

70819148664.  $\frac{128}{3}$

**Question Number : 2 Question Id : 70819114620 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 :**

70819148665.  $\frac{31}{13}$

70819148666.  $\frac{108}{13}$

70819148667.  $\frac{27}{2}$

70819148668.  $\frac{54}{7}$

Question Number : 2 Question Id : 70819114620 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

অসীম গুণোত্তর শ্রেণীর পদগুলির সমষ্টি 3 এবং তাদের পদগুলির বর্গের সমষ্টি  $\frac{9}{2}$ । তবে উহাদের পদগুলির ঘনের

যোগফল হবে :

Options :

70819148665.  $\frac{31}{13}$

70819148666.  $\frac{108}{13}$

70819148667.  $\frac{27}{2}$

70819148668.  $\frac{54}{7}$

Question Number : 3 Question Id : 70819114621 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 :

70819148669.  $P \Leftrightarrow P \vee q$

70819148670.  $(P \wedge q) \Leftrightarrow P$

70819148671.  $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819148672.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 3 Question Id : 70819114621 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

এই Boolean expression গুলির মধ্যে কোনটি tautology হবে ?

**Options :**

70819148669.  $p \Leftrightarrow p \vee q$

70819148670.  $(p \wedge q) \Leftrightarrow p$

70819148671.  $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819148672.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 4 Question Id : 70819114622 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 :**

70819148673. a, b and c are in Arithmetic Progression

70819148674. a, b and c are in Geometric Progression

70819148675. a, 2b and c are in Arithmetic Progression

70819148676. a, b and c satisfy  $2b^2 = ac$

Question Number : 4 Question Id : 70819114622 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ধরি  $|a| < 1, |b| < 1, |c| < 1$  এবং  $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$ । যদি  $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$  সমান্তর শ্রেণীভুক্ত হয়,

তবে :

Options :

70819148673. a, b এবং c সমান্তর শ্রেণীভুক্ত হবে

70819148674. a, b এবং c গুণোত্তর শ্রেণীভুক্ত হবে

70819148675. a, 2b এবং c সমান্তর শ্রেণীভুক্ত হবে

70819148676. a, b এবং c,  $2b^2 = ac$  এই শর্ত সিদ্ধ করবে

Question Number : 5 Question Id : 70819114623 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 :

70819148677.  $15e + 5$

70819148678.  $15e - 5$

70819148679.  $16e - 5$

70819148680.  $16e - 7$

**Question Number : 5 Question Id : 70819114623 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

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

**Options :**

70819148677.  $15e + 5$

70819148678.  $15e - 5$

70819148679.  $16e - 5$

70819148680.  $16e - 7$

**Question Number : 6 Question Id : 70819114624 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

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

**Options :**

70819148681. 5

70819148682. 3

70819148683. 7

70819148684. 1

**Question Number : 6 Question Id : 70819114624 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

যদি  $10^{50} + (3 \times (4)^{52}) + \lambda$ , 9 দ্বারা বিভাজ্য হয়, তবে  $\lambda$  এর সর্বনিম্ন ধনাত্মক অখণ্ড মান হবে :

**Options :**

70819148681. 5

70819148682. 3

70819148683. 7

70819148684. 1

**Question Number : 7 Question Id : 70819114625 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 :**

70819148685. 455

70819148686. 421

70819148687. 435

70819148688. 441

**Question Number : 7 Question Id : 70819114625 Question Type : MCQ Option Shuffling : Yes Is**



**Question Mandatory : No**

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

একটি তলে তিনটি সমান্তরাল রেখার উপর যথাক্রমে 4টি, 5টি এবং 6টি বিন্দু আছে। যদি কোন 4টি বিন্দু বা বেশী বিন্দু একটি বৃত্তের উপর থাকবে না এবং কোন তিনটি বিন্দু তিনটি ভিন্ন রেখার উপর অবস্থান করে সমরেখ হবে না, তবে কতগুলি বৃত্ত হবে যেগুলি কেবলমাত্র তিনটি বিন্দু দিয়ে যাবে তাদের সংখ্যা হবে ?

**Options :**

70819148685. 455

70819148686. 421

70819148687. 435

70819148688. 441

**Question Number : 8 Question Id : 70819114626 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 :**

70819148689.  $a = 1, b = 0$

70819148690.  $a = 0, b = 1$

70819148691.  $a = 0, b = -1$

70819148692.  $a = -1, b = 1$

**Question Number : 8 Question Id : 70819114626 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

যদি  $y = \frac{ax - b}{(x-1)(x-4)}$  এর একটি গরিষ্ঠ প্রান্তিক বিন্দু  $(2, -1)$  হয় তবে  $a$  এবং  $b$  এর মান হবে :

**Options :**

70819148689.  $a=1, b=0$

70819148690.  $a=0, b=1$

70819148691.  $a=0, b=-1$

70819148692.  $a=-1, b=1$

**Question Number : 9 Question Id : 70819114627 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 :**

70819148693.  $\frac{9}{13}$

70819148694.  $\frac{15}{4}$

70819148695.  $\frac{13}{9}$

70819148696.  $\frac{1}{13}$

Question Number : 9 Question Id : 70819114627 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$  এবং  $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$  সমতলদ্বয়ের মধ্যে দূরত্ব হবে :

Options :

70819148693.  $\frac{9}{13}$

70819148694.  $\frac{15}{4}$

70819148695.  $\frac{13}{9}$

70819148696.  $\frac{1}{13}$

Question Number : 10 Question Id : 70819114628 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 :

70819148697.  $\frac{7}{20}$

70819148698.  $\frac{1}{20}$

70819148699.  $\frac{19}{20}$

70819148700.  $\frac{12}{20}$

**Question Number : 10 Question Id : 70819114628 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

X এবং Y দুইজন ছাত্রের একটি অঙ্ক সমাধান করার সম্ভাবনা যথাক্রমে,  $\frac{1}{4}$  এবং  $\frac{1}{5}$ । যদি তারা পৃথক-পৃথক ভাবে সমাধান করার চেষ্টা করে, তবে কেবলমাত্র একজন সমাধান করবে তার সম্ভাবনা হবে :

**Options :**

70819148697.  $\frac{7}{20}$

70819148698.  $\frac{1}{20}$

70819148699.  $\frac{19}{20}$

70819148700.  $\frac{12}{20}$

**Question Number : 11 Question Id : 70819114629 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 :**

70819148701.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819148702.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819148703.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819148704.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 11 Question Id : 70819114629 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

জটিল রাশি,  $\frac{1+i}{1-i}$  এর মেরু আকার হল :

**Options :**

70819148701.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819148702.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819148703.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819148704.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 12 Question Id : 70819114630 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 :**

70819148705. <sup>2</sup>

70819148706. <sup>3</sup>

70819148707. <sup>4</sup>

70819148708. <sup>1</sup>

**Question Number : 12 Question Id : 70819114630 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

একটি সরলরেখা  $(1, 0)$  এবং  $(3, 0)$  বিন্দুগামী রেখাকে  $2 : 1$  অনুপাতে বিভক্ত করে এবং ঐ রেখার উপর লম্ব তার সমীকরণ  $ax = 7$  হলে,  $a$  এর মান হবে :

**Options :**

70819148705. <sup>2</sup>

70819148706. <sup>3</sup>

70819148707. <sup>4</sup>

70819148708. <sup>1</sup>

**Question Number : 13 Question Id : 70819114631 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 :**

70819148709.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819148710.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819148711.  $2(x^2 + y^2) - x + y + 1 = 0$

70819148712.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 13 Question Id : 70819114631 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

$x + y = 2$  সরলরেখার সাপেক্ষে  $x^2 + y^2 - 2x = 0$  বৃত্তের দর্পণ প্রতিবিন্দু বৃত্তের সমীকরণ হবে :

**Options :**

70819148709.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819148710.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819148711.  $2(x^2 + y^2) - x + y + 1 = 0$

70819148712.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 14 Question Id : 70819114632 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 :**

70819148713.  $y + 3 = 0$  and  $x - 1 = 0$

70819148714.  $x-3=0$  and  $y+1=0$

70819148715.  $x+3=0$  and  $x-1=0$

70819148716.  $y+3=0$  and  $y-1=0$

**Question Number : 14 Question Id : 70819114632 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 এবং  $(x+1)^2 + (y-1)^2 = 4$  বৃত্তের সাধারণ স্পর্শকের সমীকরণ হবে :

**Options :**

70819148713.  $y+3=0$  এবং  $x-1=0$

70819148714.  $x-3=0$  এবং  $y+1=0$

70819148715.  $x+3=0$  এবং  $x-1=0$

70819148716.  $y+3=0$  এবং  $y-1=0$

**Question Number : 15 Question Id : 70819114633 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 :**

70819148717.



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

70819148718.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819148719.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819148720.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

**Question Number : 15 Question Id : 70819114633 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

যদি  $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$ , তবে  $A^k$  ( $k \in \mathbb{N}$ ) এর মান হবে :

**Options :**

70819148717.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819148718.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819148719.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819148720.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819114634 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 :

70819148721.  $s=5, t=13$

70819148722.  $s \neq 5$

70819148723.  $s=5, t \neq 13$

70819148724.  $t \neq 13$

Question Number : 16 Question Id : 70819114634 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

রৈখিক সমীকরণগুলি,

$$x_1 + x_2 + x_3 = 5$$

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

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

$s$  এবং  $t$  এর কিকি মানের জন্য এদের কোনো সমাধান সম্ভব নয় ?

Options :

70819148721.  $s=5, t=13$

70819148722.  $s \neq 5$

70819148723.  $s=5, t \neq 13$

70819148724.  $t \neq 13$

**Question Number : 17 Question Id : 70819114635 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 :**

70819148725. 1

70819148726. -1

70819148727. 0

70819148728. 2

**Question Number : 17 Question Id : 70819114635 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

$\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  এর সাপেক্ষে  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  এর অবকলন হবে,  $(1, \infty)$  এর মধ্যে :

**Options :**

70819148725. 1

70819148726. -1

70819148727. 0

70819148728. <sup>2</sup>

Question Number : 18 Question Id : 70819114636 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 :

70819148729.  $\frac{\pi}{6}$

70819148730.  $\frac{\pi}{4}$

70819148731.  $\frac{\pi}{3}$

70819148732.  $\frac{5\pi}{12}$

Question Number : 18 Question Id : 70819114636 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ধরি  $\vec{a}$ ,  $\vec{b}$  এবং  $\vec{c}$  তিনটি ভেক্টর যেখানে  $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$ । যদি  $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$  তবে  $\vec{a}$  এবং  $\vec{c}$

এর মধ্যে সূক্ষ্মকোণ হবে :

Options :

70819148729.  $\frac{\pi}{6}$

70819148730.  $\frac{\pi}{4}$

70819148731.  $\frac{\pi}{3}$

70819148732.  $\frac{5\pi}{12}$

**Question Number : 19 Question Id : 70819114637 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 :**

70819148733.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819148734.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819148735.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819148736.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

**Question Number : 19 Question Id : 70819114637 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

$(1 + y^2)dx = (\tan^{-1}y - x)dy$  এই অবকলন সমীকরণের সমাধান হবে :  
(c, একটি সমাকলন ধ্রুবক)

**Options :**

70819148733.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819148734.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819148735.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819148736.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

**Question Number : 20 Question Id : 70819114638 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 :**

70819148737.  $[-5, -4] \cup [4, 5]$

70819148738.  $[-5, 4] \cup (-4, 5]$

70819148739.  $(-5, -4) \cup (4, 5)$

70819148740.  $(-5, 4) \cup (-4, 5)$

**Question Number : 20 Question Id : 70819114638 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

$x$  এর কোন মানের জন্য  $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$  ভেক্টরটি অক্ষগুলির ধনাত্মক দিকের সহিত সূক্ষ্মকোণ করবে তাহা হল :

**Options :**

70819148737.  $[-5, -4] \cup [4, 5]$

70819148738.  $[-5, 4) \cup (-4, 5]$

70819148739.  $(-5, -4) \cup (4, 5)$

70819148740.  $(-5, 4) \cup (-4, 5)$

## Mathematics Section B

<b>Section Id :</b>	708191526
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	5
<b>Section Marks :</b>	20
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191806
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 70819114639 Question Type : SA**

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

$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx$  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 :** 21 **Question Id :** 70819114639 **Question Type :** SA

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

$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx$  এর মান হবে \_\_\_\_\_।

**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 :** 70819114640 **Question Type :** SA

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001



Question Number : 22 Question Id : 70819114640 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$9\tan^2\theta + 4\cot^2\theta$  এর সর্বনিম্ন মান হবে \_\_\_\_\_।

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 : 70819114641 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 : 70819114641 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

(1, 2, 3) বিন্দু থেকে  $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$  সরলরেখার উপর লম্ব দূরত্ব হবে \_\_\_\_\_।

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 : 70819114642 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 : 70819114642 Question Type : SA**

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

যদি  $\log_3 2$ ,  $\log_3 (2^x - 5)$  এবং  $\log_3 \left(2^x - \frac{7}{2}\right)$  সমান্তর শ্রেণীতে থাকলে  $x$  এর মান হবে \_\_\_\_\_।

**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 : 70819114643 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 : 70819114643 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

যদি  $x^2 + x + 1 = 0$  হয় তবে  $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$  এর মান হবে \_\_\_\_\_।

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 : 70819114644 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 :** 70819114644 **Question Type :** SA

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

(4, 5) বিন্দু থেকে  $x^2 + y^2 - 4x - 2y - 11 = 0$  বৃত্তের উপর দুটি স্পর্শক অঙ্কন করা হল, ঐ স্পর্শকদ্বয় এবং ঐ বৃত্তের অনুরূপ ব্যাসার্ধ দ্বয় দ্বারা গঠিত চতুর্ভুজের ক্ষেত্রফল হবে (বর্গ এককে) \_\_\_\_\_।

**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 :** 70819114645 **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 : 70819114645 Question Type : SA**

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

দ্বিপদ নিবেশনে, গড়মান এবং ভেদমানের সমষ্টি 15 এবং তাদের বর্গের সমষ্টি 117। তবে অভিন্ন প্রচেষ্টা কত হবে \_\_\_\_\_।

**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 : 70819114646 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 : 70819114646 Question Type : SA**

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

যে সমতল  $(1, 2, 6)$  এবং  $(2, 5, 7)$  বিন্দুগামী এবং  $4x - y + z = 15$  সমতলের উপর লম্ব সেটি হল  $ax + by + cz + d = 0$ । যদি  $a, b, c, d \in \mathbb{Z}$ ,  $\gcd(|a|, |b|, |c|) = 1$  তবে  $|a + b + c + d|$  এর মান হবে \_\_\_\_\_।

**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 :** 70819114647 **Question Type :** SA

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 29 **Question Id :** 70819114647 **Question Type :** SA

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

$\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$  সীমার মধ্যে  $4\sin^2x - 8\sin x + 3 = 0$  সমীকরণের বাস্তব সমাধান সংখ্যা হবে \_\_\_\_\_।

**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 : 70819114648 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 : 70819114648 Question Type : SA**

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

ধরি  $A_1, A_2, A_3, \dots$  একটি ক্রমবর্ধমান গুণোত্তর শ্রেণী। যদি,  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  এবং  $A_5 A_7 = 441$ , তবে  $3(A_2 + A_4)$  এর মান হবে \_\_\_\_\_।

**Response Type : Numeric**

**Evaluation Required For SA : Yes**

**Show Word Count : Yes**

**Answers Type : Range**

**Text Areas : PlainText**

**Possible Answers :**

5 to 5.001

**Section Id :** 708191527  
**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 :** 708191807  
**Question Shuffling Allowed :** Yes

**Question Number : 31 Question Id : 70819114649 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 :**

70819148751. United Nations Educational, Scientific & Cultural Organization.

70819148752. United Nations Educational Security Cultural Organization.

70819148753. United Nations Entrance Site Calling Organization.

70819148754. United Nations Educational, Sustainable & Cultural Organization.

**Question Number : 31 Question Id : 70819114649 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

নিম্নলিখিতদের মধ্যে কোনটা 'ইউনেস্কো' (UNESCO) এর পূর্ণরূপ ?



**Options :**

70819148751. সংযুক্ত রাষ্ট্রের শিক্ষামূলক, বৈজ্ঞানিক এবং সাংস্কৃতিক সংগঠন

70819148752. সংযুক্ত রাষ্ট্রের শিক্ষামূলক সুরক্ষা সাংস্কৃতিক সংগঠন

70819148753. সংযুক্ত রাষ্ট্রের প্রবেশ ছল ডাকা সংগঠন

70819148754. সংযুক্ত রাষ্ট্রের শিক্ষামূলক, সর্টেইনেবেল এবং সাংস্কৃতিক সংগঠন

**Question Number : 32 Question Id : 70819114650 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 :**

70819148755. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819148756. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148757. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148758. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819114650 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তালিকা-I এর সাথে তালিকা-II মেলাও।

তালিকা-I

তালিকা-II

(I) হল ওফ নেশন

(a)



(II) জলপ্রপাত, পেনসিলভ্যানীয়া

(b)



(III) পেট্রোনাস টাওয়ার

(c)



(IV) সেক্রেটারিএট

(d)



**Options :**

70819148755. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819148756. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148757. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148758. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819114651 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 :**

70819148759. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819148760. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819148761. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819148762. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819114651 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

তালিকা-I এর সাথে তালিকা-II মেলাও।

তালিকা-I	তালিকা-II
(I) কামরু	(a) ভিক্টোরিয়া মেমোরিয়াল হল
(II) দিল্লী	(b) বদ্রীনাথ মন্দির
(III) ফতেহপুর সিকরী	(c) খিরকী মস্জিদ
(IV) কলকাতা	(d) বুলন্দ দরজা

**Options :**

70819148759. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819148760. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819148761. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819148762. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 34 Question Id : 70819114652 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 :

70819148763. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819148764. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148765. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819148766. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819114652 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

তালিকা-I এর সাথে তালিকা-II মেলাও।

তালিকা-I

তালিকা-II

(I) আগ্রা দুর্গ

(a)



(II) আটলা মসজিদ

(b)



(III) নালন্দা বিশ্ববিদ্যালয়

(c)



(IV) জগন্নাথ মন্দির

(d)



Options :

70819148763. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819148764. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148765. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819148766. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 35 Question Id : 70819114653 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 :**

70819148767. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819148768. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148769. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819148770. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 35 Question Id : 70819114653 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



তালিকা-I এর সাথে তালিকা-II মেলাও।

তালিকা-I	তালিকা-II
(I) যাদবিন্দ্র উদ্যান	(a) মানালী
(II) বিষ্ণু মন্দির	(b) অমৃতসর
(III) হিডিন্মা মন্দির	(c) পিনজোর
(IV) হরি মন্দির	(d) বুনিয়ার

**Options :**

70819148767. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819148768. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148769. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819148770. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 36 Question Id : 70819114654 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 :**

70819148771. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819148772. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819148773. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819148774. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 36 Question Id : 70819114654 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

তালিকা-I এর সাথে তালিকা-II মেলাও।

তালিকা-I	তালিকা-II
(I) মেহারানগড় দুর্গ	(a) হায়দ্রাবাদ
(II) সিড়ি দুর্গ	(b) কলকাতা
(III) গোলকোণ্ডা দুর্গ	(c) দিল্লী
(IV) ফোর্ট উইলিয়াম	(d) যোধপুর

নিম্নলিখিত বিকল্প থেকে সঠিক উত্তর বাছাই করুন :

**Options :**

70819148771. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819148772. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819148773. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819148774. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 37 Question Id : 70819114655 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 :**

70819148775. B.V. Doshi

70819148776. Arundhati Roy

70819148777. Revati Kamat

70819148778. Bimal Patel

**Question Number : 37 Question Id : 70819114655 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘গড় ওফ স্মল থিংস’ বইটি কোন ভারতীয় স্থপতিবিদ দ্বারা লেখা ?

**Options :**

70819148775. বি.ভি. দেশী

70819148776. অরন্ধুতি রায়

70819148777. রেবতি কামাত

70819148778. বিমল পটেল

**Question Number : 38 Question Id : 70819114656 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 :**

70819148779. Gujarat

70819148780. West Bengal

70819148781. Tamil Nadu

70819148782. Rajasthan

**Question Number : 38 Question Id : 70819114656 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘ঝারোখা’ কোন জায়গার জানলাগুলিতে পাওয়া যায় ?

**Options :**

70819148779. গুজরাট

70819148780. পশ্চিম বাংলা

70819148781. তমিল নাড়ু

70819148782. রাজস্থান

**Question Number : 39 Question Id : 70819114657 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 :**

70819148783. North-West side

70819148784. South-East side

70819148785. North side

70819148786. South-West side

**Question Number : 39 Question Id : 70819114657 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

ভারতীয় মহাদ্বীপে মৌসুমি বায়ু কোন দিক থেকে প্রবেশ করে প্রবাহিত হয় ?

**Options :**

70819148783. উত্তর-পশ্চিম দিক

70819148784. দক্ষিণ-পূর্ব দিক

70819148785. উত্তর দিক

70819148786. দক্ষিণ-পশ্চিম দিক

**Question Number : 40 Question Id : 70819114658 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 :**

70819148787. Bharat Bhavan in Bhopal

70819148788. LIC Building in Delhi

70819148789. Charminar in Hyderabad

70819148790. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819114658 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নলিখিত বিল্ডিংগুলির মধ্যে কোনটি ঔপনিবেশিক ছাপত্য শৈলী অনুসরণ করে ?

Options :

70819148787. ভারত ভবন ইন ভোপাল

70819148788. এল.আই.সি. বিল্ডিং ইন দিল্লী

70819148789. চারমিনার ইন হায়দ্রাবাদ

70819148790. ভিক্টোরিয়া মেমোরিয়াল ইন কলকাতা

Question Number : 41 Question Id : 70819114659 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 :

70819148791.  $420 \times 590$  (mm  $\times$  mm)

70819148792.  $420 \times 594$  (mm  $\times$  mm)

70819148793.  $297 \times 420$  (mm  $\times$  mm)

70819148794.  $420 \times 592$  (mm  $\times$  mm)

Question Number : 41 Question Id : 70819114659 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

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

A2 ছবি আঁকার কাগজের কি মাপ হয় ?

**Options :**

70819148791.  $420 \times 590$  (মি.মি.  $\times$  মি.মি.)

70819148792.  $420 \times 594$  (মি.মি.  $\times$  মি.মি.)

70819148793.  $297 \times 420$  (মি.মি.  $\times$  মি.মি.)

70819148794.  $420 \times 592$  (মি.মি.  $\times$  মি.মি.)

**Question Number : 42 Question Id : 70819114660 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 :**

70819148795. Chittor fort

70819148796. Jaigarh fort

70819148797. Bhangarh fort

70819148798. Amer fort

**Question Number : 42 Question Id : 70819114660 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘ভিক্টরি টাওয়ার’ কোন নিম্নলিখিত দুর্গতে আছে ?

**Options :**

70819148795. চিত্তর দুর্গ

70819148796. জয়গড় দুর্গ

70819148797. ভাণগড় দুর্গ

70819148798. আমের দুর্গ

**Question Number : 43 Question Id : 70819114661 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 :**

70819148799. Sanjay Puri

70819148800. Vikram Lall

70819148801. Ashok Lall

70819148802. C. Sompura

**Question Number : 43 Question Id : 70819114661 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

নিম্নলিখিত স্থপতিদের মধ্যে কে ঐতিহাসিক 'অক্ষর ধাম' মন্দির পরিকল্পনা করেছেন ?

**Options :**

70819148799. সঞ্জয় পুরী



70819148800. বিক্রম লাল

70819148801. অশোক লাল

70819148802. সি. সোমপুরা

**Question Number : 44 Question Id : 70819114662 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

'Volume Zero' Documentary is on which Architect ?

**Options :**

70819148803. Charles Correa

70819148804. Richard Mier

70819148805. Jasbir Sachdev

70819148806. Ranjit Sabliki

**Question Number : 44 Question Id : 70819114662 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

'ভলিউম জিরো' তথ্যচিত্র কোন স্থপতির উপর ?

**Options :**

70819148803. চার্লস করিয়া

70819148804. রিচার্ড মাইর

70819148805. জাম্বির সাচদেব

70819148806. রঞ্জিত সাবলিকী

**Question Number : 45 Question Id : 70819114663 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'Agenda 21' is declaration related with :

**Options :**

70819148807. Climate change

70819148808. Global warming

70819148809. Sustainable development

70819148810. Smart city

**Question Number : 45 Question Id : 70819114663 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'অ্যাজেন্ডা 21' ঘোষণাটি কীসের সাথে সম্পর্কিত ?

**Options :**

70819148807. জলবায়ু সংক্রান্ত পরিবর্তন

70819148808. বিশ্ব উন্নয়ন

70819148809. স্যাস্টেইন্যাবেল উন্নয়ন

70819148810. স্মার্ট শহর

**Question Number : 46 Question Id : 70819114664 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 :**

70819148811. Karnataka

70819148812. Orissa

70819148813. Maharashtra

70819148814. Uttar Pradesh

**Question Number : 46 Question Id : 70819114664 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

সোনার খনি ভারতের কোন রাজ্যে অবস্থিত ?

**Options :**

70819148811. কর্ণাটক

70819148812. ওড়িশা

70819148813. মহারাষ্ট্র

70819148814. উত্তর প্রদেশ

**Question Number : 47 Question Id : 70819114665 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 :**

70819148815. North

70819148816. South

70819148817. East

70819148818. West

**Question Number : 47 Question Id : 70819114665 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

দক্ষিণ গোলার্ধে ছায়াহীন আলো কোন দিক থেকে পড়ে ?

**Options :**

70819148815. উত্তর

70819148816. দক্ষিণ

70819148817. পূর্ব

70819148818. পশ্চিম

**Question Number : 48 Question Id : 70819114666 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 :**

70819148819. B.V. Doshi

70819148820. Laurie Baker

70819148821. Raj Rewal

70819148822. Achyut Kanvinde

**Question Number : 48 Question Id : 70819114666 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

প্রথম ভারতীয় স্থা পতিবিদ, যিনি প্রিট্জকার পুরস্কার 2018 বৎসরে পেয়ে ছিলেন :

**Options :**

70819148819. বি.ভি. দোশী

70819148820. লোরি বেকার

70819148821. রাজ রেওয়াল

70819148822. আছুত কানবিন্দে

**Question Number : 49 Question Id : 70819114667 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Word "Bungalow" has originated from :

**Options :**

70819148823. Bengalurm

70819148824. Banaras

70819148825. Bengal

70819148826. Bari

**Question Number : 49 Question Id : 70819114667 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

"Bungalow" শব্দটি কোন শব্দ থেকে এসেছে ?

**Options :**

70819148823. বেঙ্গালুরু

70819148824. বেনারস

70819148825. বেঙ্গল

70819148826. বাড়ী

**Question Number : 50 Question Id : 70819114668 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 :**

70819148827. Laurie Baker

70819148828. Louis Kahn

70819148829. Lutyen

70819148830. Le Corbusier

**Question Number : 50 Question Id : 70819114668 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

IIM - আহমেদাবাদ কোন স্থপতি দ্বারা পরিকল্পিত ?

**Options :**

70819148827. লোরি বেকার

70819148828. লুইস কাহ্ন

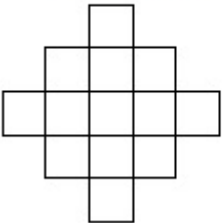
70819148829. লুটয়েন

70819148830. লি করবুসিএর

**Question Number : 51 Question Id : 70819114669 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 :**

70819148831. 14

70819148832. 13

70819148833. 15

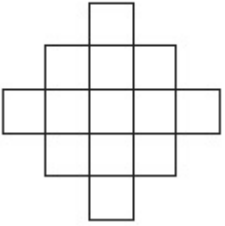
70819148834. 18

**Question Number : 51 Question Id : 70819114669 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

নিম্নাঙ্কিত চিত্রে কয়টি চতুর্ভুজ অঙ্কিত আছে ?



**Options :**

70819148831. 14

70819148832. 13

70819148833. 15

70819148834. 18

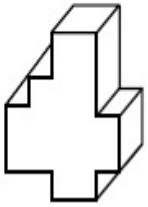
**Question Number : 52 Question Id : 70819114670 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

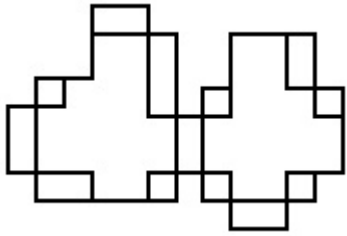
**Correct Marks : 4 Wrong Marks : 1**



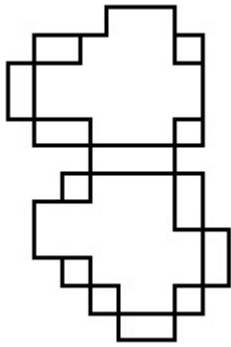
A drawing is provided with all the folds to construct the following three Dimensional object.  
Select the correct one.



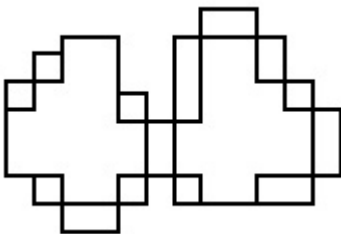
**Options :**



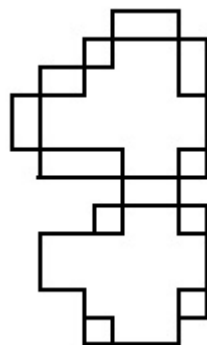
70819148835.



70819148836.



70819148837.

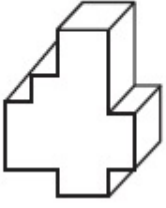


70819148838.

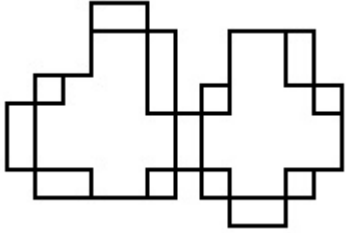
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

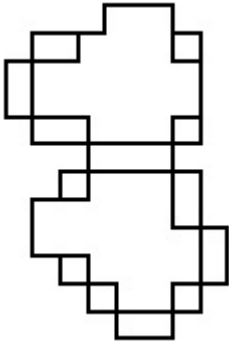
নিম্নে অঙ্কিত চিত্রগুলিকে ভাঁজ করলে প্রশ্ন চিত্রের বস্তুটি 3-D তে গড়ে উঠে। সঠিক চিত্রটি বেছে নিন।



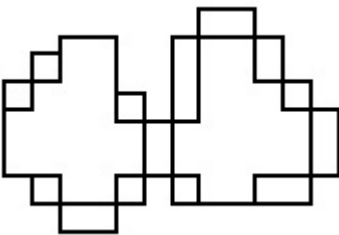
Options :



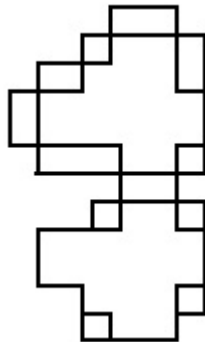
70819148835.



70819148836.



70819148837.



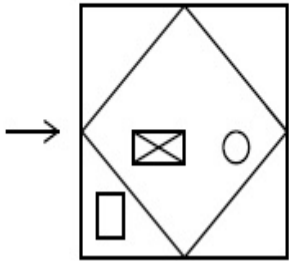
70819148838.

Question Number : 53 Question Id : 70819114671 Question Type : MCQ Option Shuffling : Yes

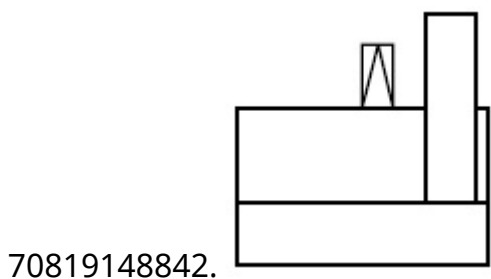
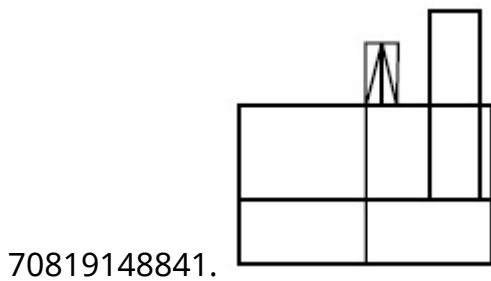
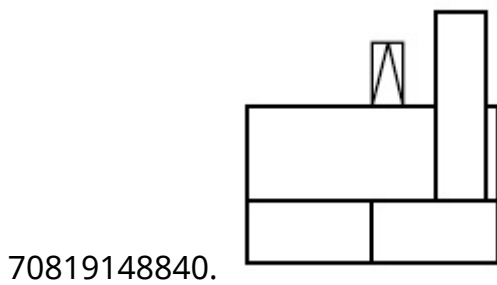
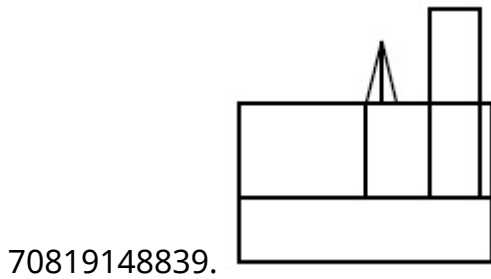
Is Question Mandatory : No

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.



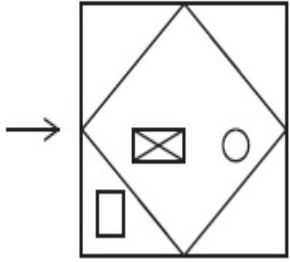
Options :



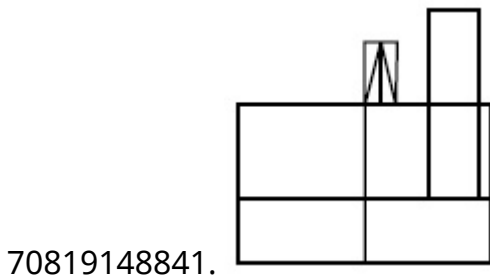
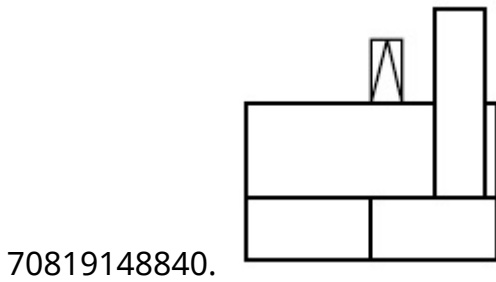
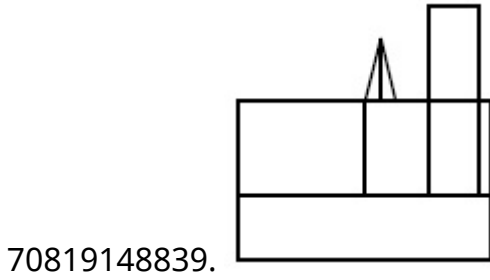
Question Number : 53 Question Id : 70819114671 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

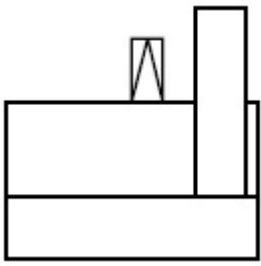
প্রশ্ন চিত্রে একটি বস্তুটিকে উপর দিক থেকে দেখানো হয়েছে। সঠিক উত্তর চিত্রে তিরের অভিমুখে দেখা অবস্থায় সনাক্ত করুন।



Options :



70819148842.

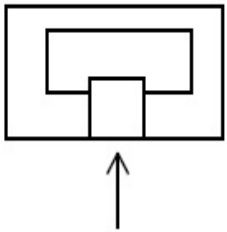


Question Number : 54 Question Id : 70819114672 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

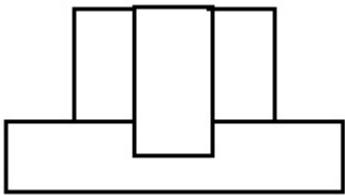
Correct Marks : 4 Wrong Marks : 1

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

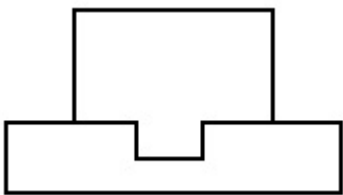


Options :

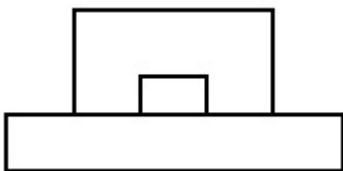
70819148843.



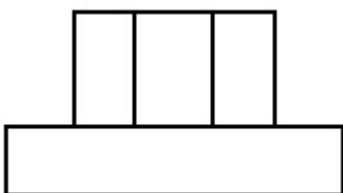
70819148844.



70819148845.



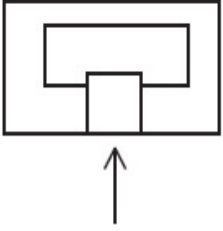
70819148846.



Question Number : 54 Question Id : 70819114672 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

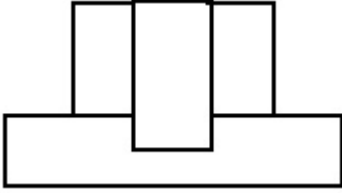
Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে বস্তুটিকে উপর দিক থেকে দেখানো হয়েছে। প্রশ্ন চিত্রে দেখানো তীরের দিক থেকে দেখা সামনের থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

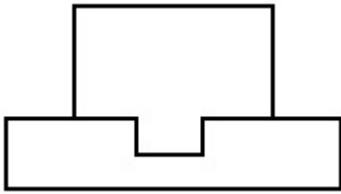


Options :

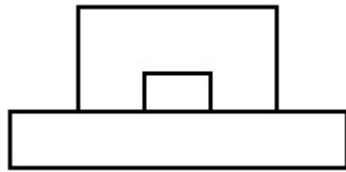
70819148843.



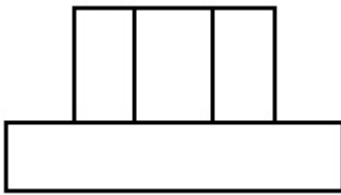
70819148844.



70819148845.



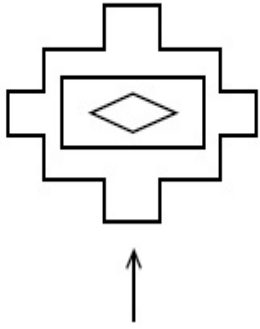
70819148846.



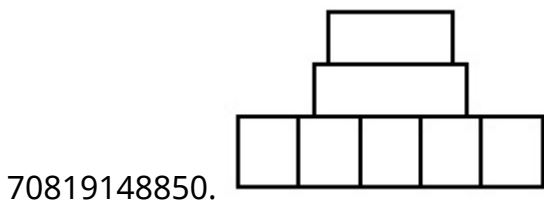
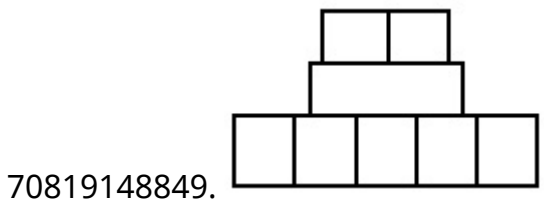
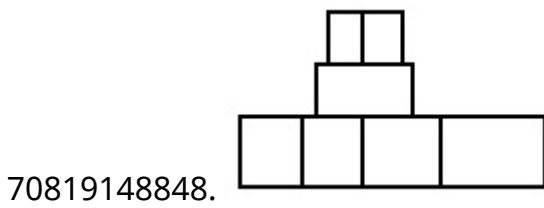
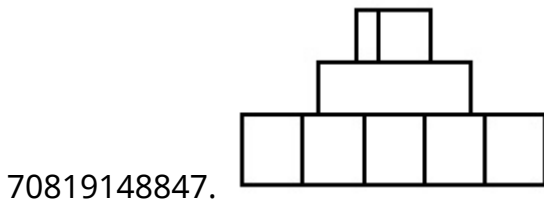
Question Number : 55 Question Id : 70819114673 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

**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 :**

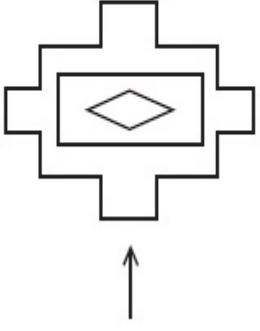


**Question Number : 55 Question Id : 70819114673 Question Type : MCQ Option Shuffling : Yes**

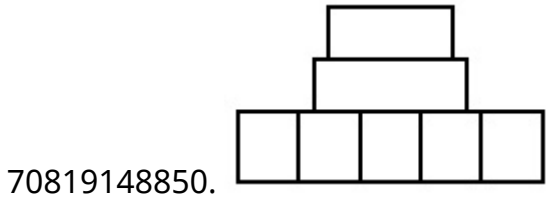
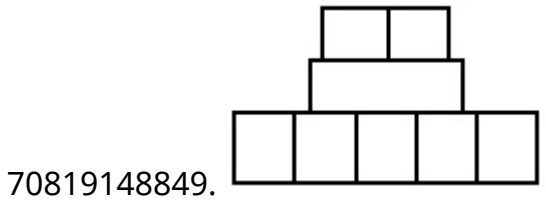
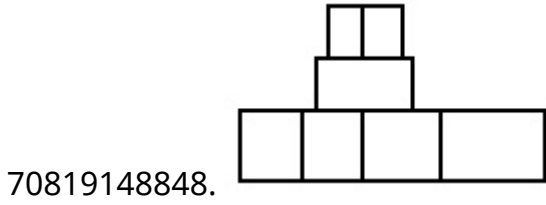
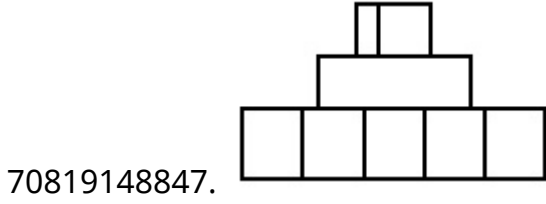
**Is Question Mandatory : No**

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

প্রশ্ন চিত্রে বস্তুটিকে উপর দিক থেকে দেখানো হয়েছে। প্রশ্ন চিত্রে দেখানো তীরের দিক থেকে দেখলে কেমন দেখাবে  
উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :



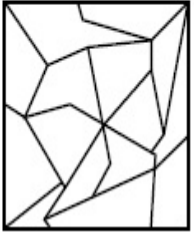
Question Number : 56 Question Id : 70819114674 Question Type : MCQ Option Shuffling : Yes

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 :**

70819148851.

70819148852.

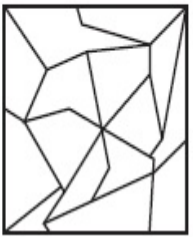
70819148853.

70819148854.

**Question Number : 56 Question Id : 70819114674 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

নিম্নাঙ্কিত চিত্রগুলির মধ্যে থেকে একটি চিত্র একই মাপের এবং একই অভিমুখে অঙ্কিত প্রশ্ন চিত্রে গুপ্ত ভাবে আছে।  
সঠিক চিত্রটি বাছাই করুন।



**Options :**

70819148851.

70819148852.



70819148853.



70819148854.



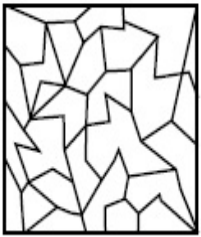
**Question Number : 57 Question Id : 70819114675 Question Type : MCQ Option Shuffling : Yes**

**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 :**

70819148855.



70819148856.



70819148857.



70819148858.

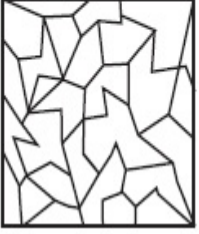


Question Number : 57 Question Id : 70819114675 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নিম্নাঙ্কিত চিত্রগুলির মধ্যে থেকে একটি চিত্র একই মাপের এবং একই অভিমুখে অঙ্কিত প্রশ্ন চিত্রে গুপ্ত ভাবে আছে।  
সঠিক চিত্রটি বাছাই করুন।



Options :

70819148855.

70819148856.

70819148857.

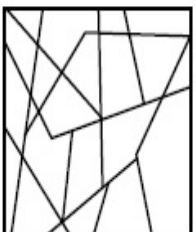
70819148858.

Question Number : 58 Question Id : 70819114676 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.

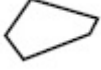


Options :

70819148859.



70819148860.



70819148861.



70819148862.

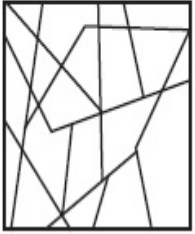


**Question Number : 58 Question Id : 70819114676 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

নিম্নাঙ্কিত চিত্রগুলির মধ্যে থেকে একটি চিত্র একই মাপের এবং একই অভিমুখে অঙ্কিত প্রশ্ন চিত্রে গুপ্ত ভাবে আছে সঠিক চিত্রটি বাছাই করুন।



**Options :**

70819148859.



70819148860.



70819148861.



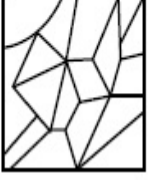
70819148862.



**Question Number : 59 Question Id : 70819114677 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 :**

70819148863.

70819148864.

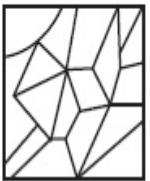
70819148865.

70819148866.

**Question Number : 59 Question Id : 70819114677 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

নিম্নলিখিত চিত্রগুলির মধ্যে থেকে একটি চিত্র এক মাপের এবং এক দিকে অঙ্কিত প্রশ্ন চিত্রে গুপ্ত ভাবে আছে। সঠিক চিত্রটি বাছাই করুন।



**Options :**

70819148863.

70819148864.



70819148865.



70819148866.

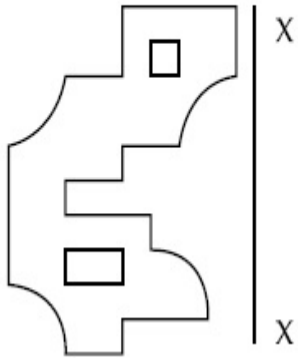


**Question Number : 60 Question Id : 70819114678 Question Type : MCQ Option Shuffling : Yes**

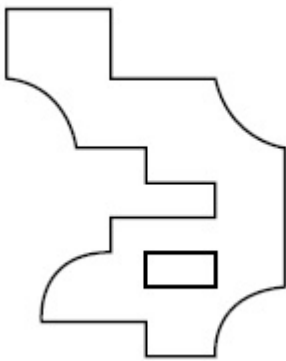
**Is Question Mandatory : No**

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

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

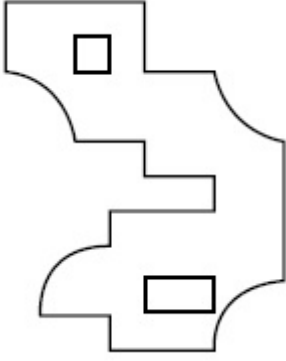
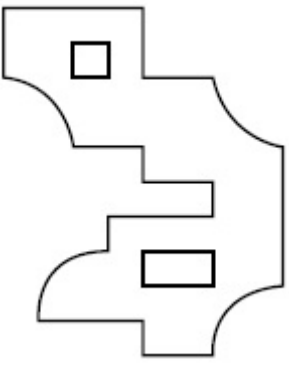


**Options :**

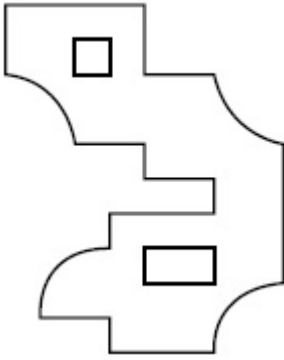


70819148867.

70819148868.



70819148869.



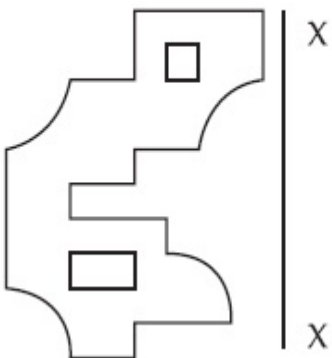
70819148870.

**Question Number : 60 Question Id : 70819114678 Question Type : MCQ Option Shuffling : Yes**

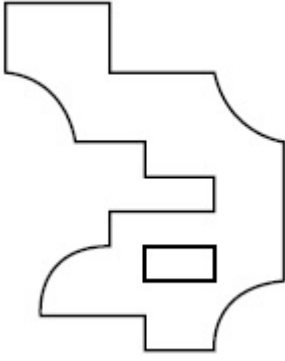
**Is Question Mandatory : No**

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

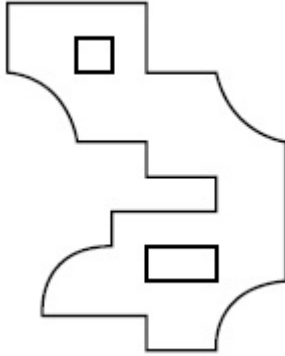
নিম্নোক্ত চিত্রের মধ্যে থেকে কোন চিত্রটি সঠিক ভাবে প্রশ্ন চিত্রে দেওয়া X-X দর্পণ প্রতিবিন্বিত করছে ?



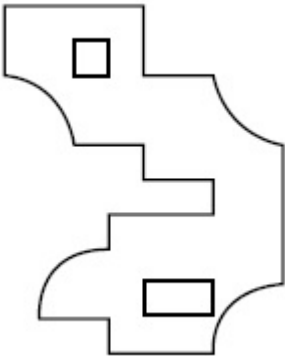
**Options :**



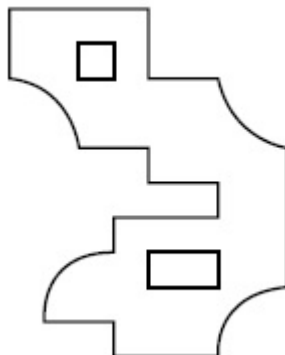
70819148867.



70819148868.



70819148869.

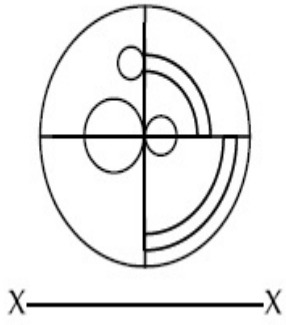


70819148870.

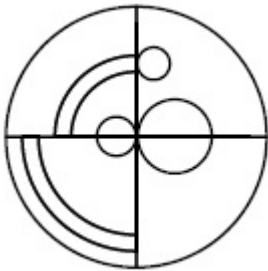


**Correct Marks : 4 Wrong Marks : 1**

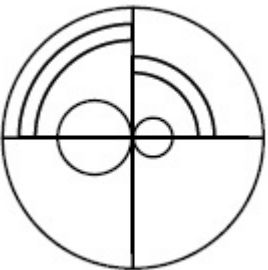
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



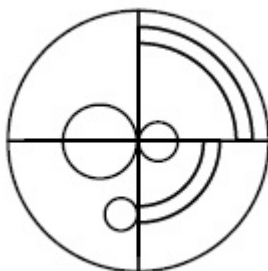
**Options :**



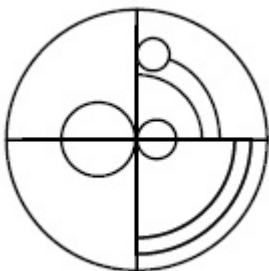
70819148871.



70819148872.



70819148873.



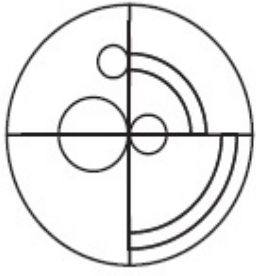
70819148874.

Question Number : 61 Question Id : 70819114679 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

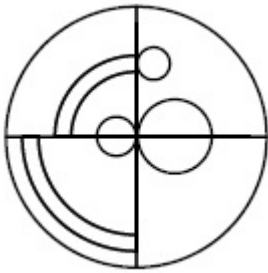
Correct Marks : 4 Wrong Marks : 1

নিম্নাঙ্কিত চিত্রের মধ্যে থেকে কোন চিত্রটি সঠিক ভাবে প্রশ্ন চিত্রে দেওয়া X-X দর্পণ প্রতিবিন্দিত করছে ?

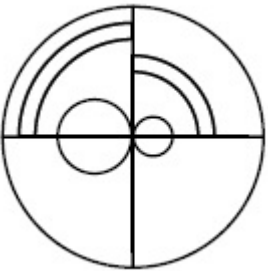


X ————— X

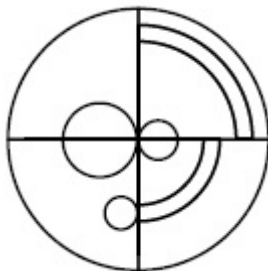
Options :



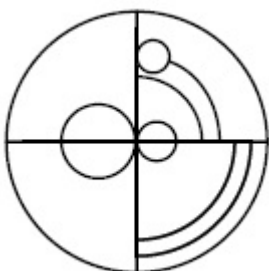
70819148871.



70819148872.



70819148873.

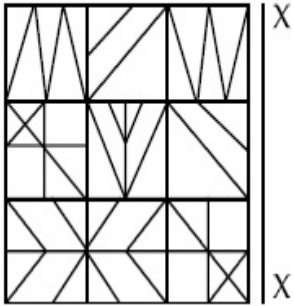


70819148874.

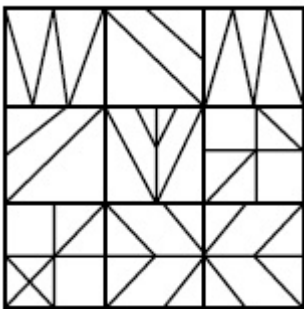
Question Number : 62 Question Id : 70819114680 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

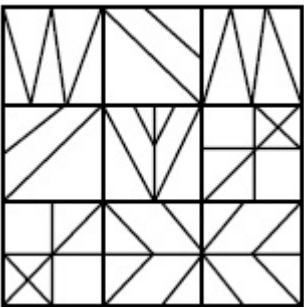
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



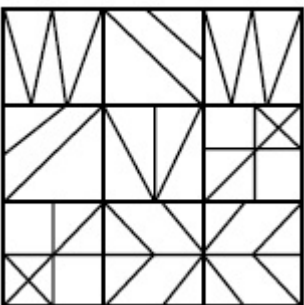
Options :



70819148875.

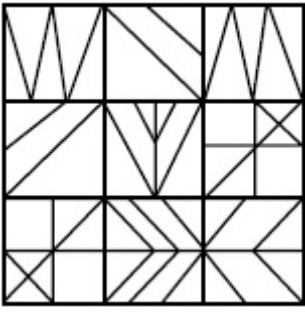


70819148876.



70819148877.

70819148878.

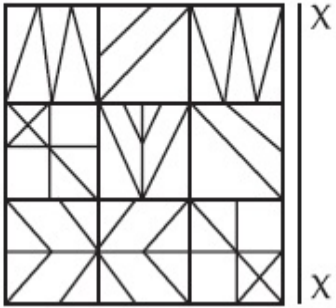


Question Number : 62 Question Id : 70819114680 Question Type : MCQ Option Shuffling : Yes

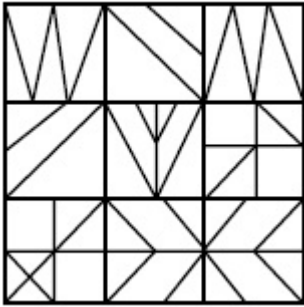
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

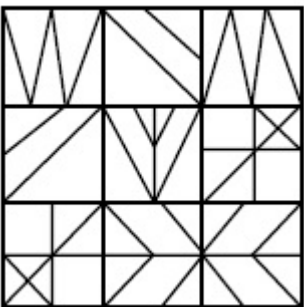
নিম্নলিখিত চিত্রের মধ্যে থেকে কোন চিত্রটি সঠিক ভাবে প্রশ্ন চিত্রে দেওয়া X-X দর্পণ প্রতিবিন্বিত করছে ?



Options :

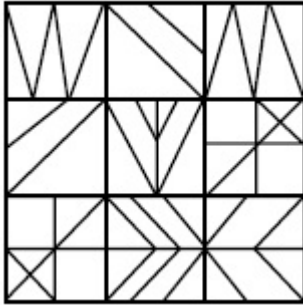
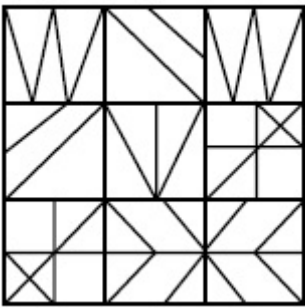


70819148875.



70819148876.

70819148877.



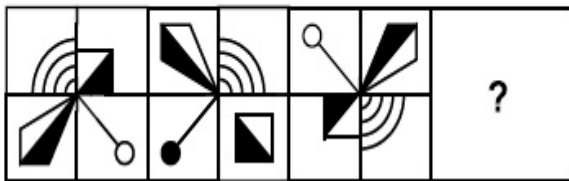
70819148878.

**Question Number : 63 Question Id : 70819114681 Question Type : MCQ Option Shuffling : Yes**

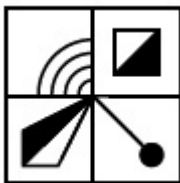
**Is Question Mandatory : No**

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

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



**Options :**



70819148879.



70819148880.

70819148881.



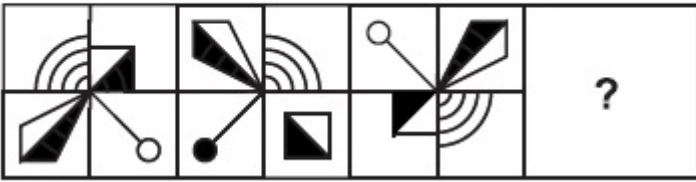
70819148882.

Question Number : 63 Question Id : 70819114681 Question Type : MCQ Option Shuffling : Yes

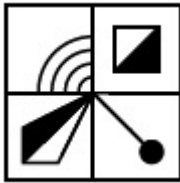
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রটিকে পূর্ণ করতে হলে উত্তর বিকল্পগুলি থেকে সঠিক চিত্রটি বাছাই করুন।



Options :



70819148879.



70819148880.



70819148881.

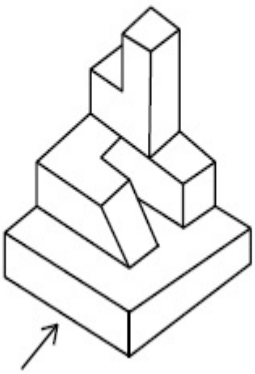
70819148882.



**Question Number : 64 Question Id : 70819114682 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

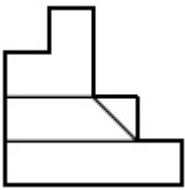
**Correct Marks : 4 Wrong Marks : 1**

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

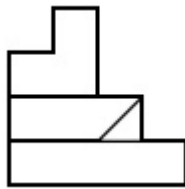


**Options :**

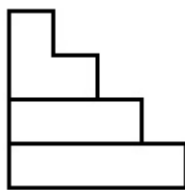
70819148883.



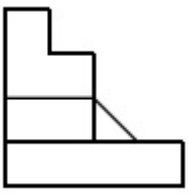
70819148884.



70819148885.



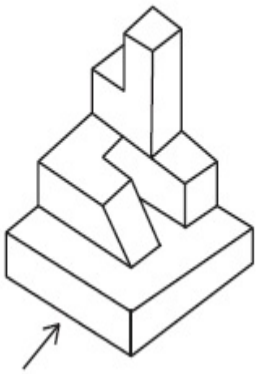
70819148886.



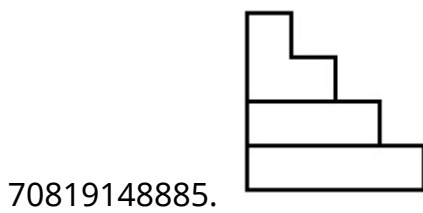
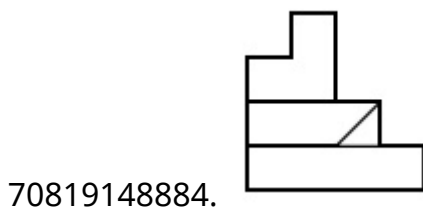
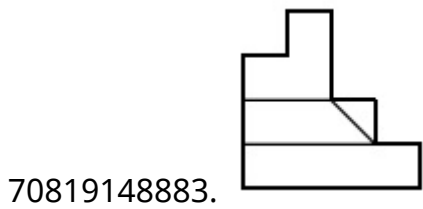
Question Number : 64 Question Id : 70819114682 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

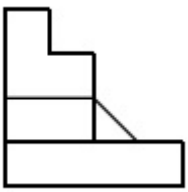


Options :



70819148886.

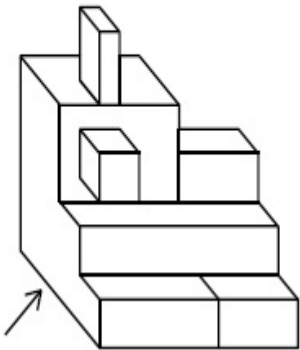




**Question Number : 65 Question Id : 70819114683 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

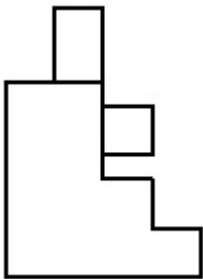
**Correct Marks : 4 Wrong Marks : 1**

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

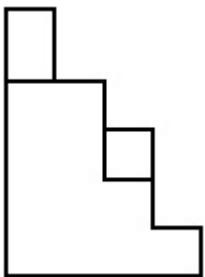


**Options :**

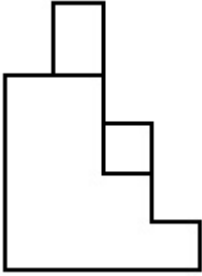
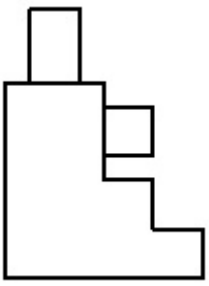
70819148887.



70819148888.



70819148889.



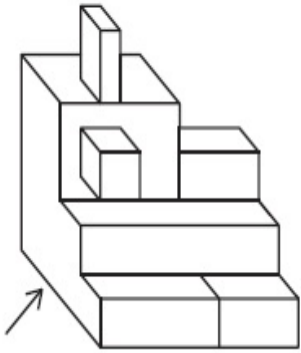
70819148890.

**Question Number : 65 Question Id : 70819114683 Question Type : MCQ Option Shuffling : Yes**

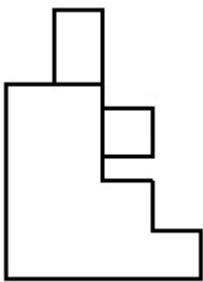
**Is Question Mandatory : No**

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

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

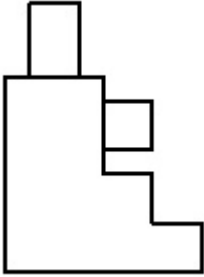
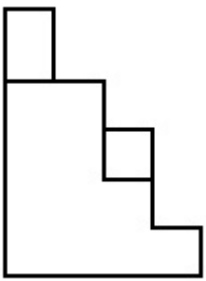


**Options :**

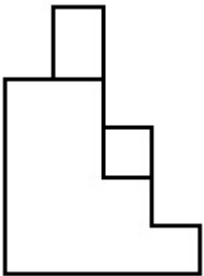


70819148887.

70819148888.



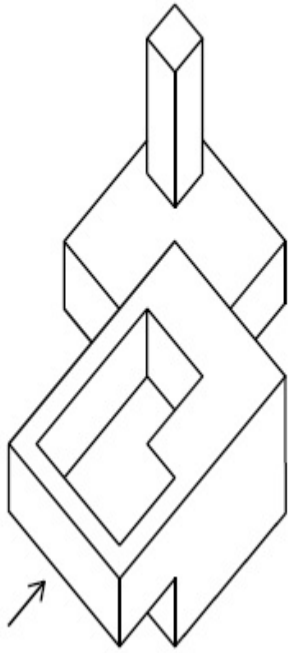
70819148889.



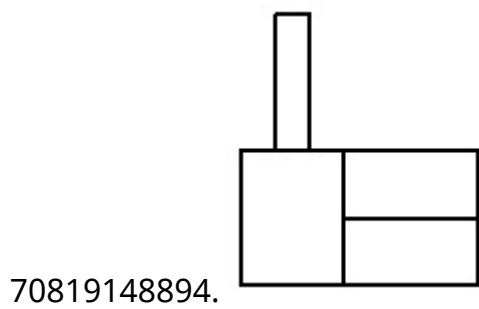
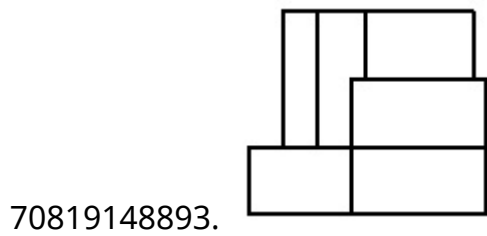
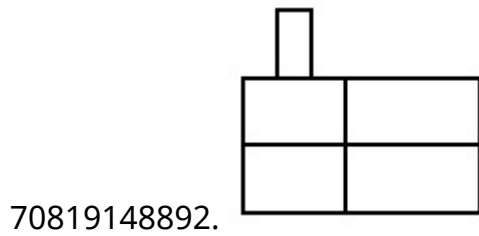
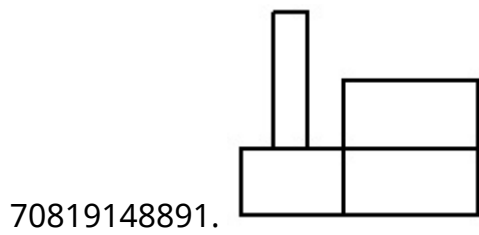
70819148890.

**Question Number : 66 Question Id : 70819114684 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

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



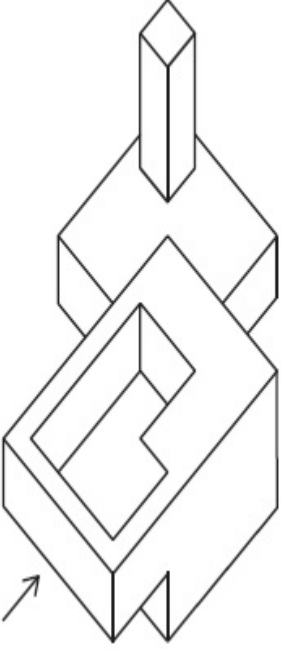
**Options :**



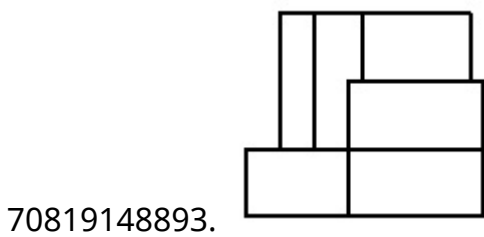
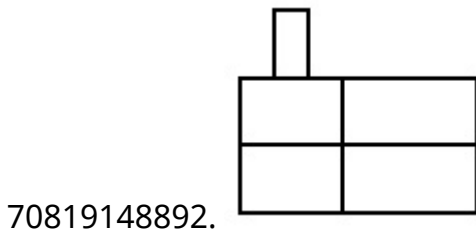
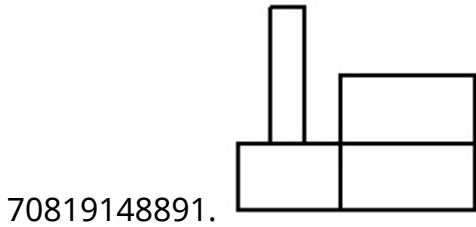
Question Number : 66 Question Id : 70819114684 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

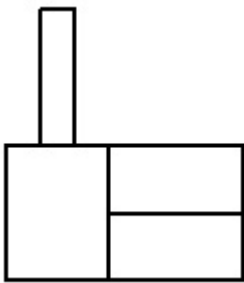
প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :



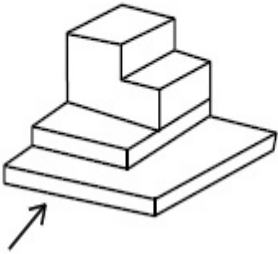
70819148894.



**Question Number : 67 Question Id : 70819114685 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

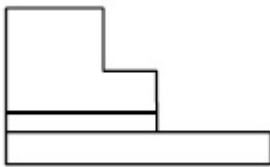
**Correct Marks : 4 Wrong Marks : 1**

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

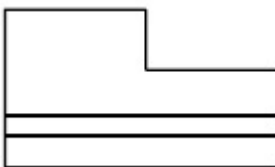


**Options :**

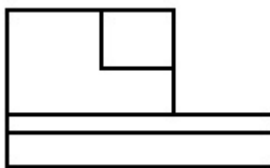
70819148895.



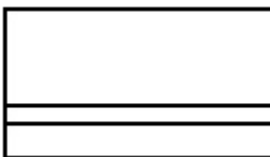
70819148896.



70819148897.



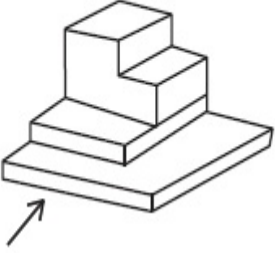
70819148898.



Question Number : 67 Question Id : 70819114685 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

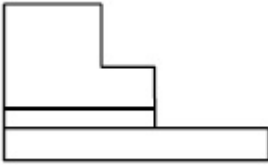
Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

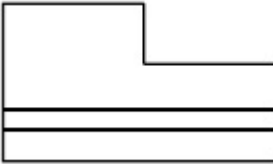


Options :

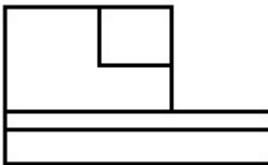
70819148895.



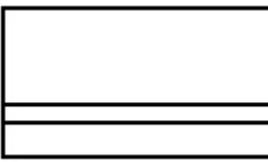
70819148896.



70819148897.



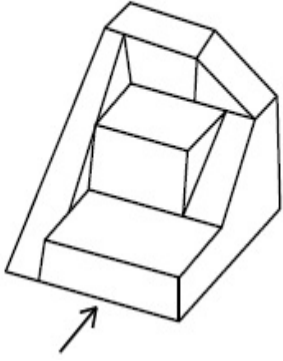
70819148898.



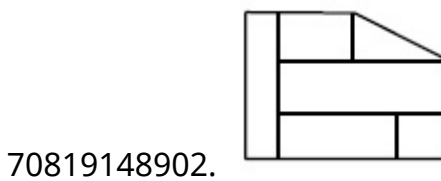
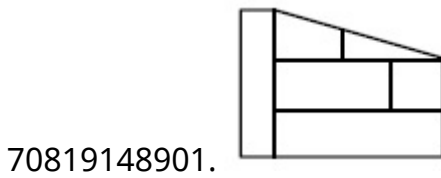
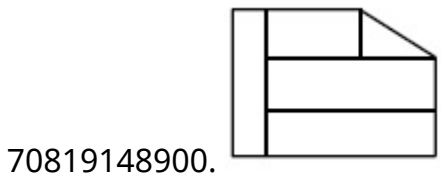
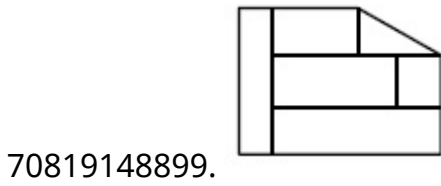
Question Number : 68 Question Id : 70819114686 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

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

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



**Options :**



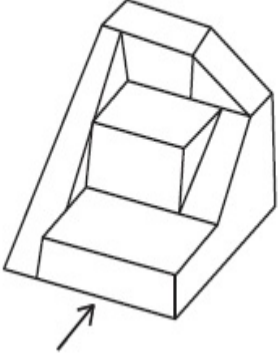
**Question Number : 68 Question Id : 70819114686 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

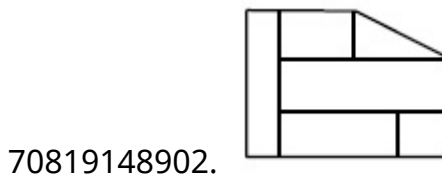
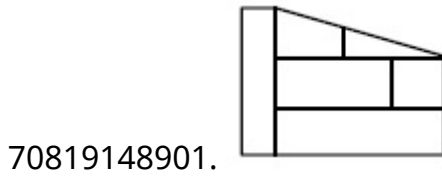
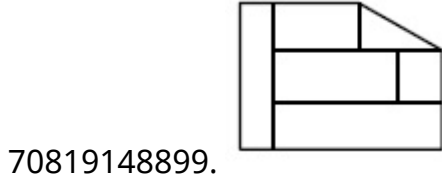
**Correct Marks : 4 Wrong Marks : 1**



প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :

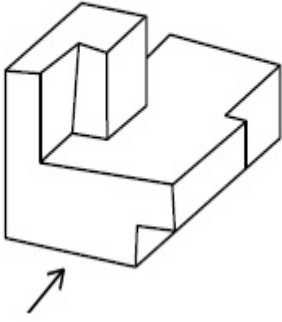


Question Number : 69 Question Id : 70819114687 Question Type : MCQ Option Shuffling : Yes

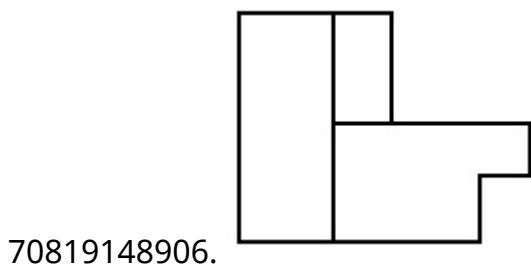
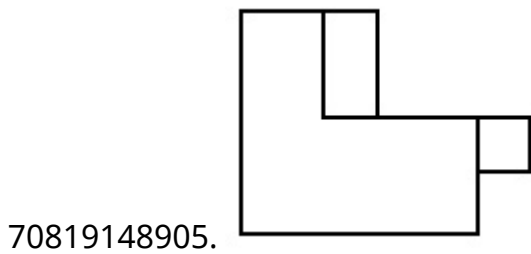
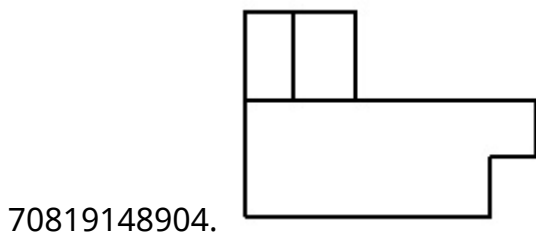
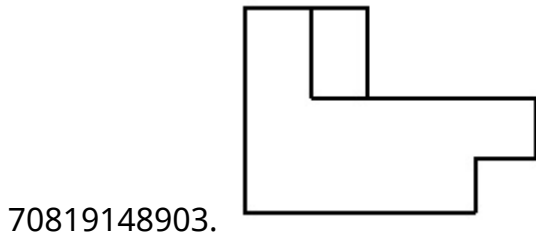
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



**Options :**

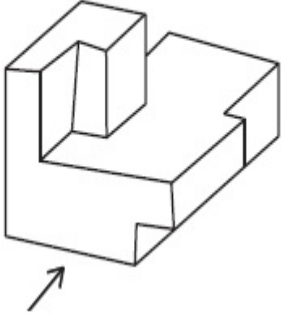


**Question Number : 69 Question Id : 70819114687 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

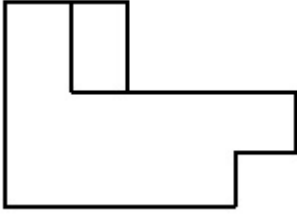
**Correct Marks : 4 Wrong Marks : 1**

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

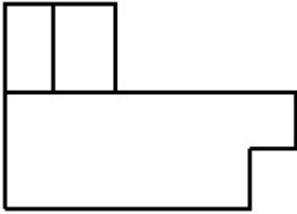


Options :

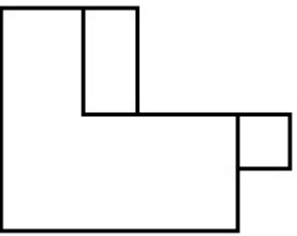
70819148903.



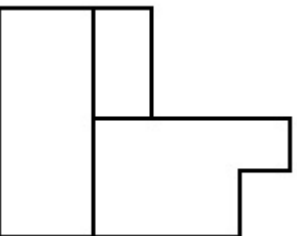
70819148904.



70819148905.

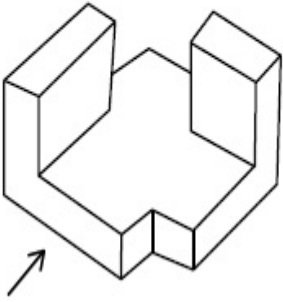


70819148906.

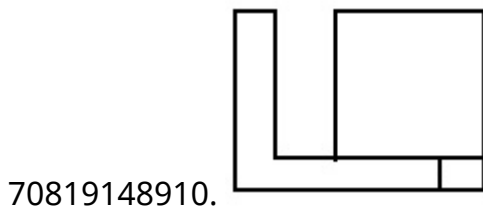
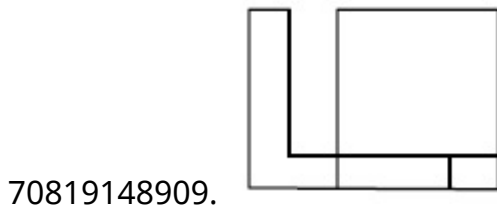
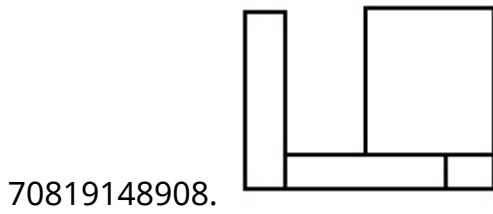
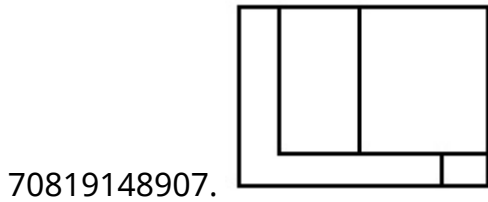


Question Number : 70 Question Id : 70819114688 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No  
Correct Marks : 4 Wrong Marks : 1

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



Options :

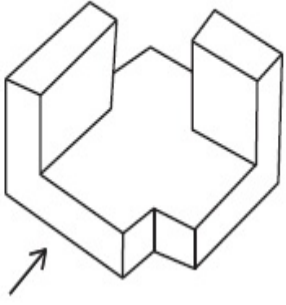


Question Number : 70 Question Id : 70819114688 Question Type : MCQ Option Shuffling : Yes

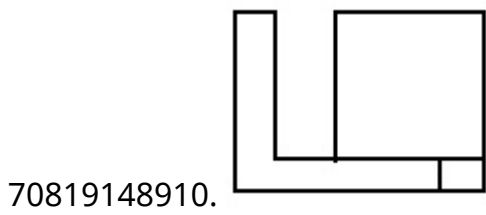
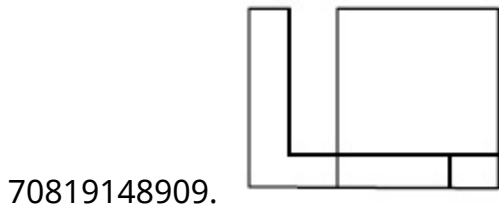
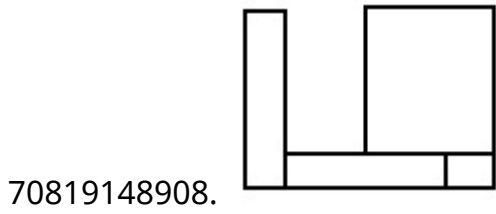
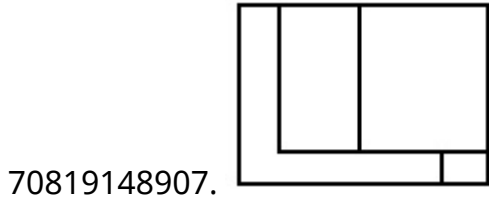
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :

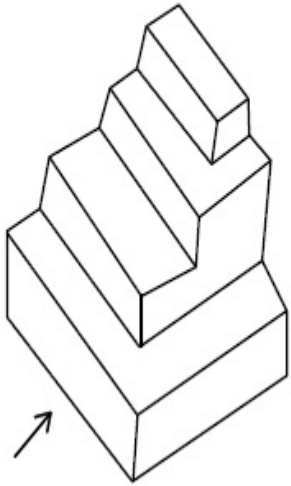


Question Number : 71 Question Id : 70819114689 Question Type : MCQ Option Shuffling : Yes

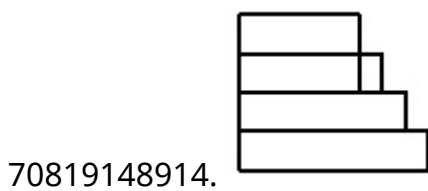
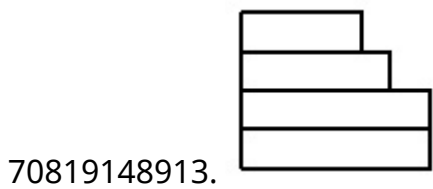
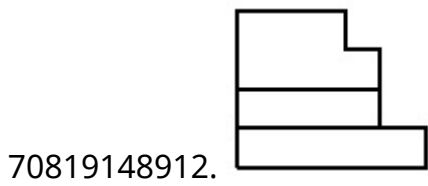
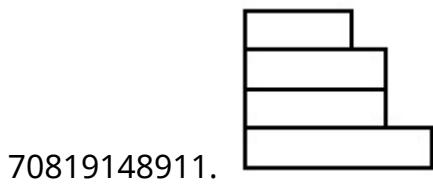
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



**Options :**

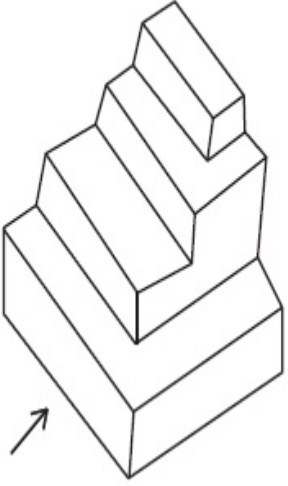


**Question Number : 71 Question Id : 70819114689 Question Type : MCQ Option Shuffling : Yes**

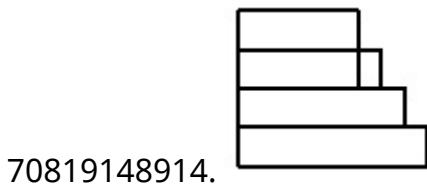
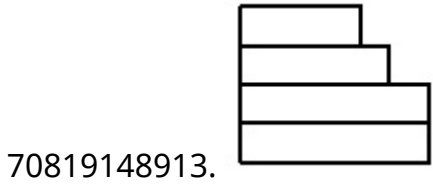
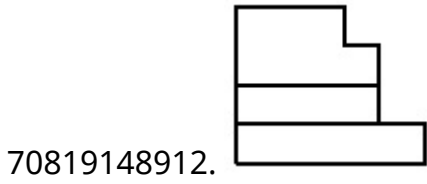
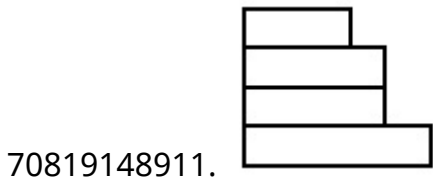
**Is Question Mandatory : No**

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

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :

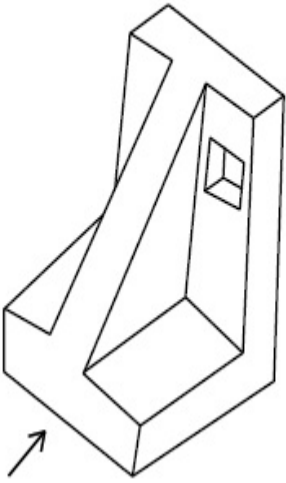


Question Number : 72 Question Id : 70819114690 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

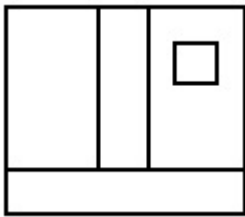
Correct Marks : 4 Wrong Marks : 1

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

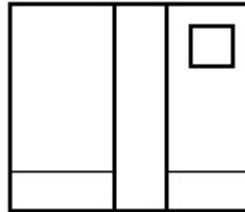


Options :

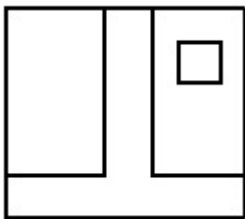
70819148915.



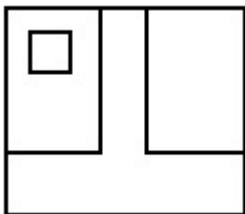
70819148916.



70819148917.



70819148918.

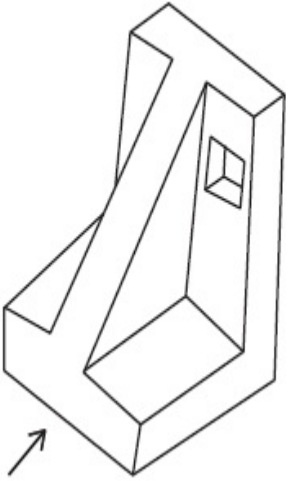




Is Question Mandatory : No

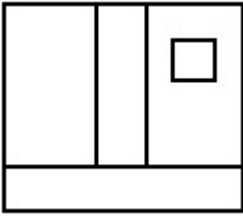
Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

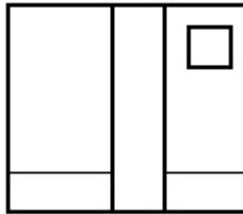


Options :

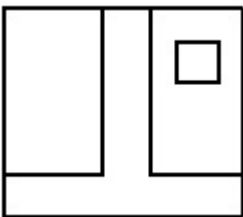
70819148915.



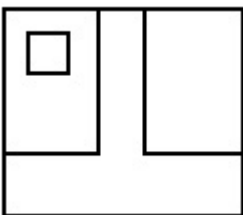
70819148916.



70819148917.



70819148918.

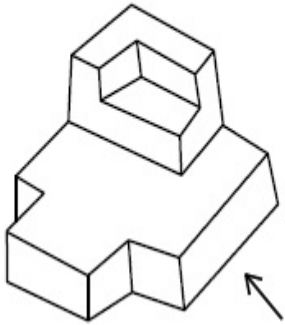


Question Number : 73 Question Id : 70819114691 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

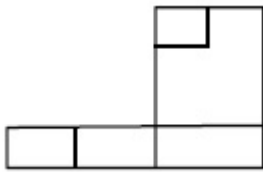
Correct Marks : 4 Wrong Marks : 1

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

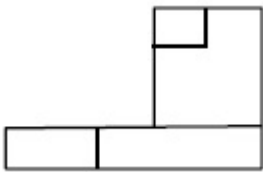


Options :

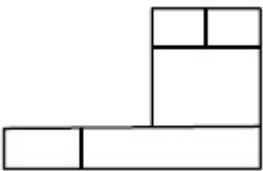
70819148919.



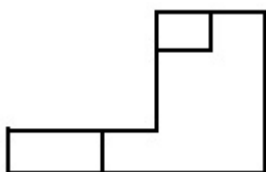
70819148920.



70819148921.



70819148922.

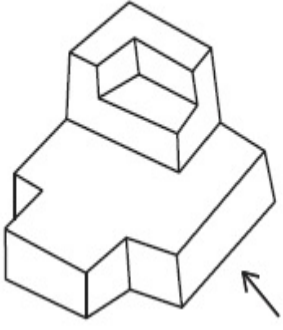


Question Number : 73 Question Id : 70819114691 Question Type : MCQ Option Shuffling : Yes

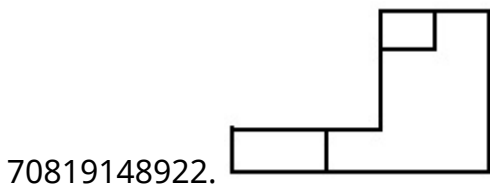
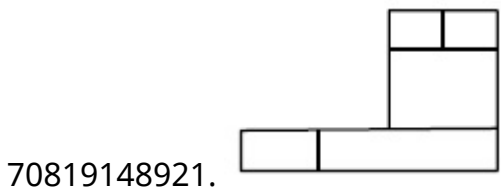
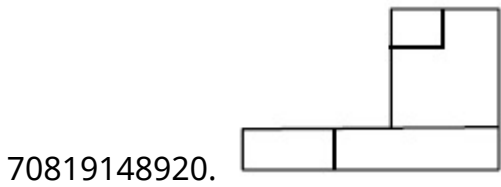
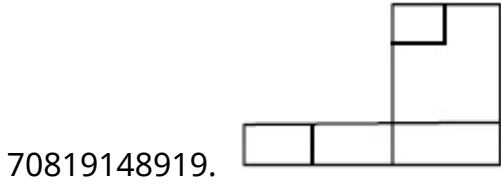
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :

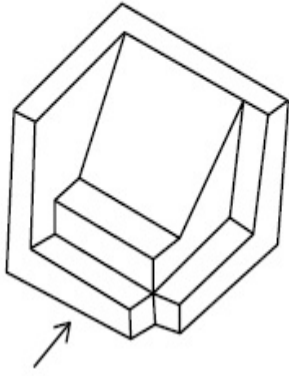


Question Number : 74 Question Id : 70819114692 Question Type : MCQ Option Shuffling : Yes

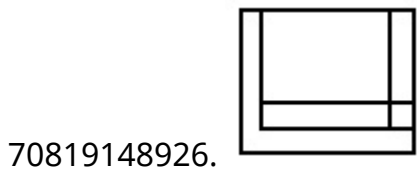
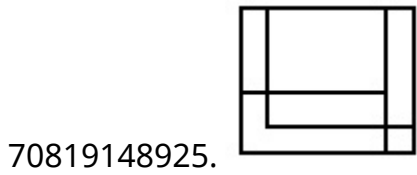
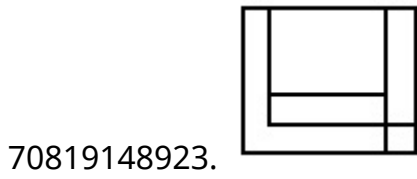
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



**Options :**

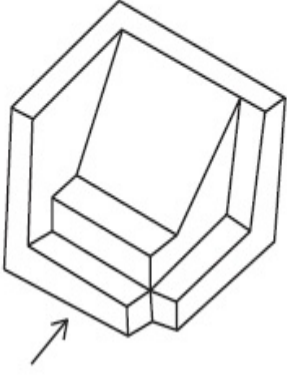


**Question Number : 74 Question Id : 70819114692 Question Type : MCQ Option Shuffling : Yes**

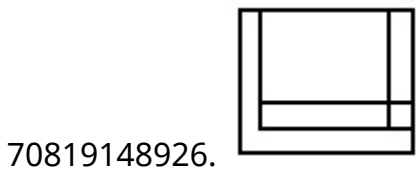
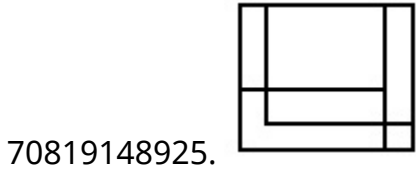
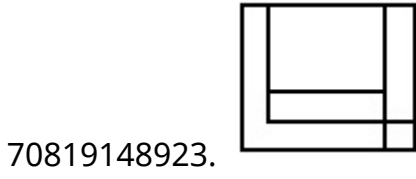
**Is Question Mandatory : No**

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

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটি, তীরের দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :

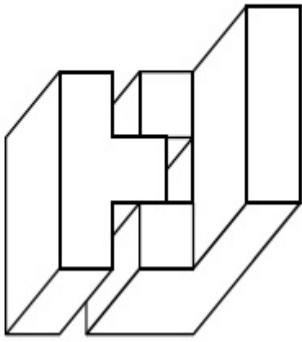


Question Number : 75 Question Id : 70819114693 Question Type : MCQ Option Shuffling : Yes

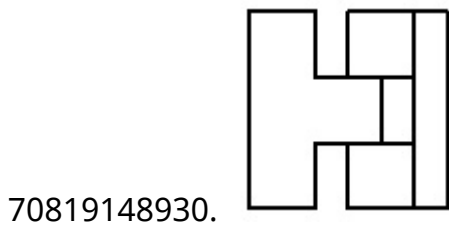
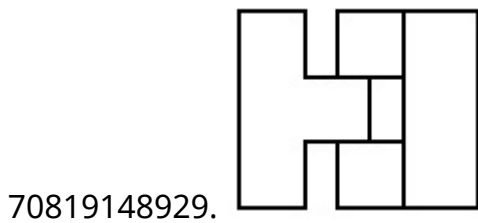
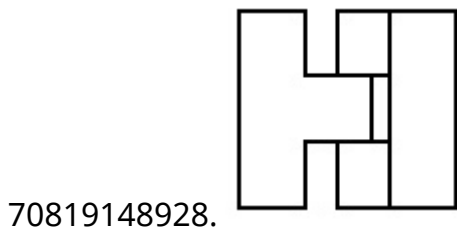
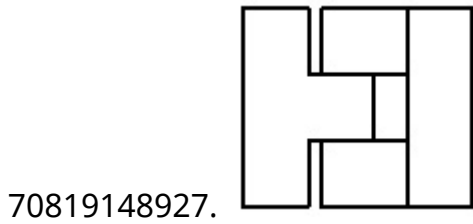
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

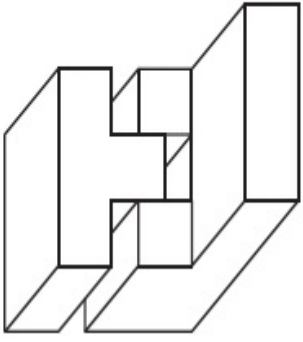


Question Number : 75 Question Id : 70819114693 Question Type : MCQ Option Shuffling : Yes

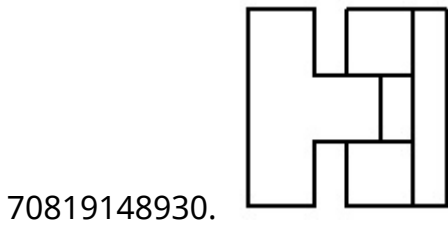
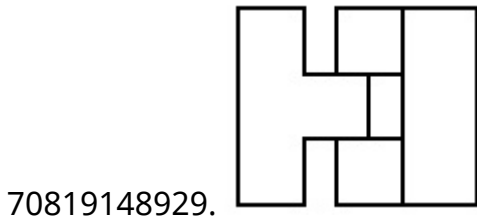
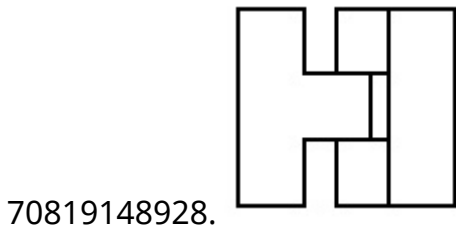
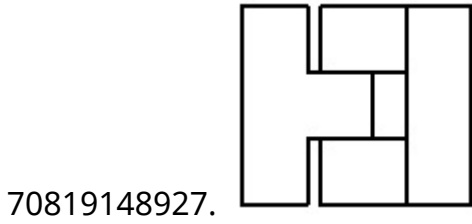
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটিকে উপর দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :

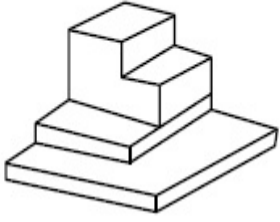


Question Number : 76 Question Id : 70819114694 Question Type : MCQ Option Shuffling : Yes

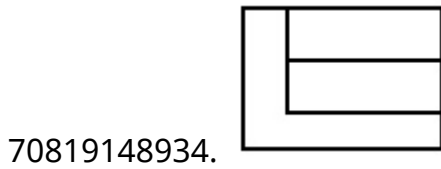
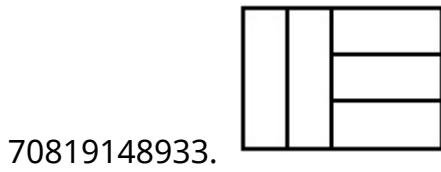
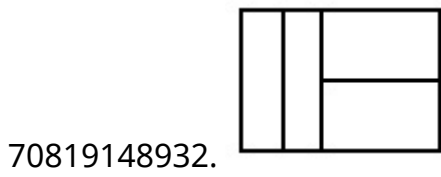
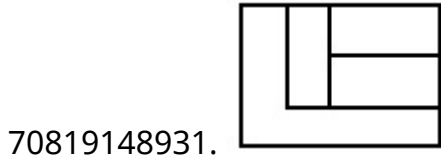
Is Question Mandatory : No

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 :

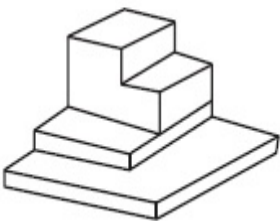


Question Number : 76 Question Id : 70819114694 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

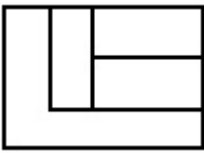
প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটিকে উপর দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।



Options :



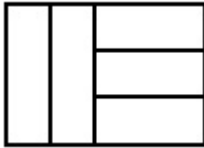
70819148931.



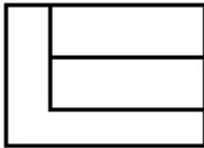
70819148932.



70819148933.



70819148934.

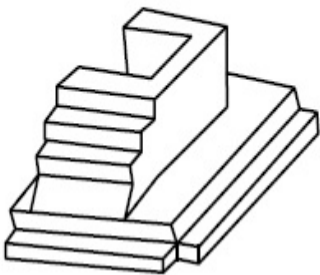


**Question Number : 77 Question Id : 70819114695 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

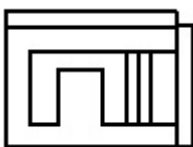
**Correct Marks : 4 Wrong Marks : 1**

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

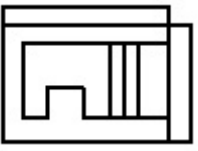


**Options :**

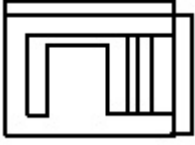
70819148935.



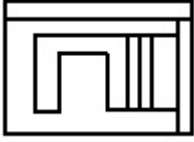
70819148936.



70819148937.



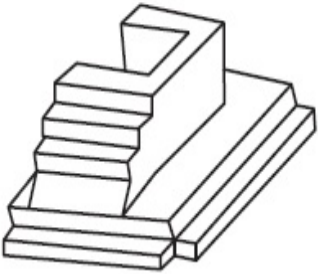
70819148938.



**Question Number : 77 Question Id : 70819114695 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

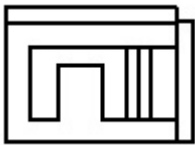
**Correct Marks : 4 Wrong Marks : 1**

প্রশ্ন চিত্রে দেওয়া 3-D বস্তুটিকে উপর দিক থেকে দেখলে কেমন দেখাবে উত্তর চিত্রগুলি থেকে সঠিক চিত্রটি সনাক্ত করুন।

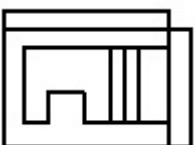


**Options :**

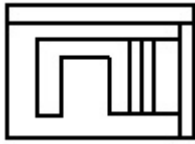
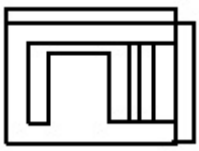
70819148935.



70819148936.



70819148937.



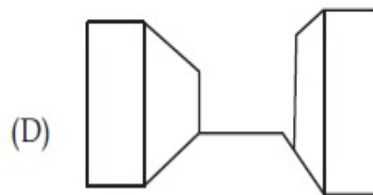
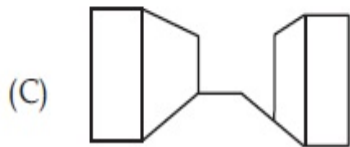
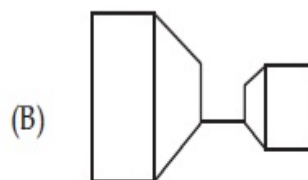
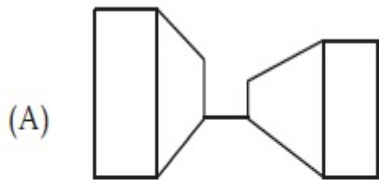
70819148938.

**Question Number : 78 Question Id : 70819114696 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 :**

70819148939. (A) and (B)

70819148940. (B) and (C)

70819148941. (C) and (D)

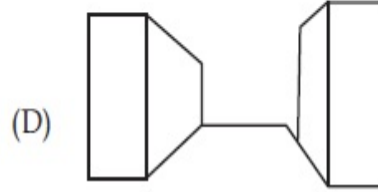
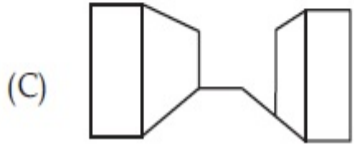
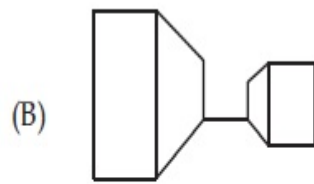
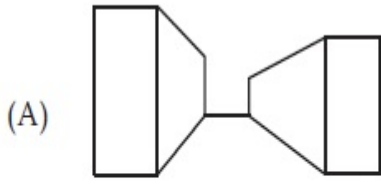
70819148942. (D) and (A)

**Question Number : 78 Question Id : 70819114696 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ভবন আকারগুলির মধ্যে থেকে কোনটি সবচেয়ে কম দৃষ্টিগোচর উদ্ভেগ সৃষ্টি করছে সঠিক চিত্রগুলিকে বাছাই করুন।



**Options :**

70819148939. (A) এবং (B)

70819148940. (B) এবং (C)

70819148941. (C) এবং (D)

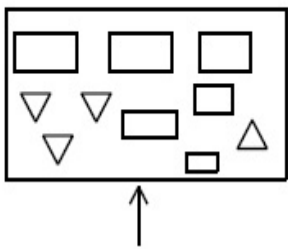
70819148942. (D) এবং (A)

**Question Number : 79 Question Id : 70819114697 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

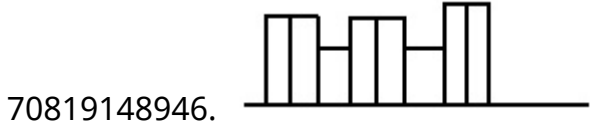
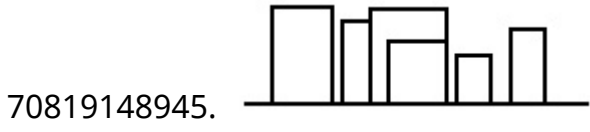
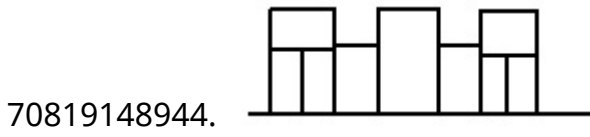
**Correct Marks : 4 Wrong Marks : 1**

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



**Options :**

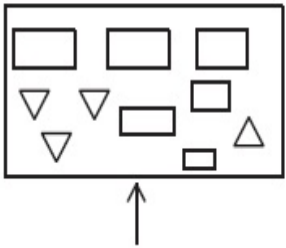




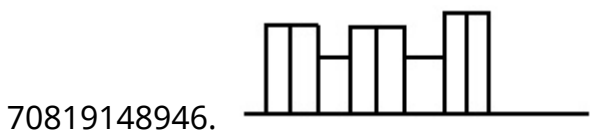
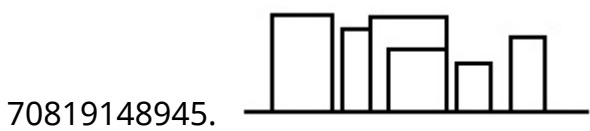
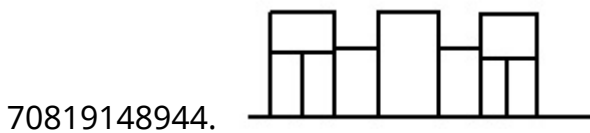
**Question Number : 79 Question Id : 70819114697 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

প্রশ্ন চিত্রে দেওয়া ছবিটি একটি বস্তুর উপর দিক থেকে দেখানো। এই বস্তুটিকে তীরের দিক থেকে দেখলে কেমন দেখাবে সঠিক চিত্রটি সনাক্ত করুন।



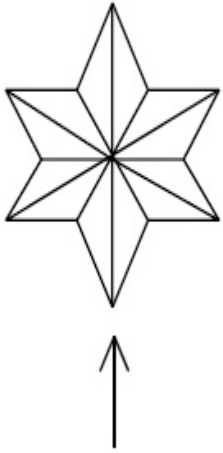
**Options :**



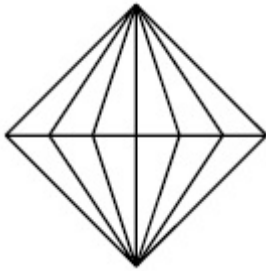
**Question Number : 80 Question Id : 70819114698 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

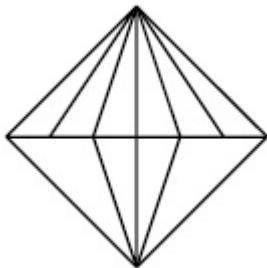
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



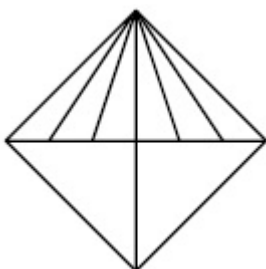
**Options :**



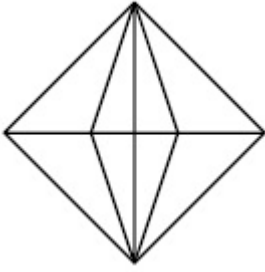
70819148947.



70819148948.



70819148949.



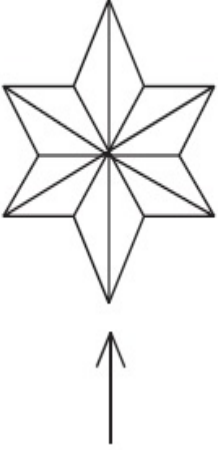
70819148950.

**Question Number : 80 Question Id : 70819114698 Question Type : MCQ Option Shuffling : Yes**

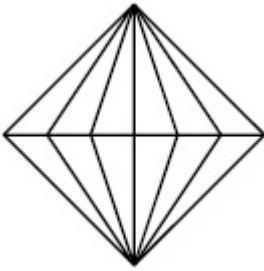
**Is Question Mandatory : No**

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

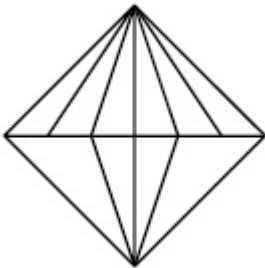
প্রশ্ন চিত্রে দেওয়া ছবিটি একটি বস্তুর উপর দিক থেকে দেখানো। এই বস্তুটিকে তীরের দিক থেকে দেখলে কেমন দেখাবে সঠিক চিত্রটি সনাক্ত করুন।



**Options :**

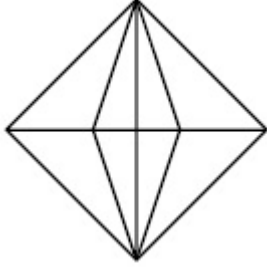
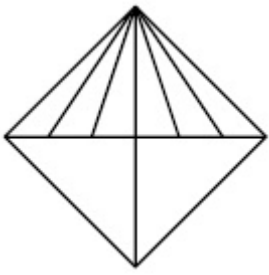


70819148947.



70819148948.

70819148949.



70819148950.

## Planning

<b>Section Id :</b>	708191528
<b>Section Number :</b>	4
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	25
<b>Number of Questions to be attempted :</b>	25
<b>Section Marks :</b>	100
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191808
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 81 Question Id : 70819114699 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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



**Options :**

70819148951. Automobile

70819148952. Clothing and Textile

70819148953. Printing

70819148954. Iron and Steel

**Question Number : 81 Question Id : 70819114699 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

নীচের কোন শিল্প প্রথম বিশ্বযুদ্ধের আগে লগুন এ ছিল না ?

**Options :**

70819148951. গাড়ি শিল্প

70819148952. সুতি বস্ত্র শিল্প

70819148953. ছাপাখানা

70819148954. লোহা ইস্পাত শিল্প

**Question Number : 82 Question Id : 70819114700 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819148955. Nitrogen

70819148956. Greenhouse gas

70819148957. Ozone

70819148958. Suspended Particulate Matter (SPM)

**Question Number : 82 Question Id : 70819114700 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

কার্বন পদচিহ্ন হল আবহাওয়ায় কি পরিমাণে \_\_\_\_\_ গ্যাস নিষ্কৃত হয়।

**Options :**

70819148955. নাইট্রজেন

70819148956. গ্রীনহাউস গ্যাস

70819148957. ওজোন গ্যাস

70819148958. ভাসমান ধূলিকণা

**Question Number : 83 Question Id : 70819114701 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

Choose the correct answer from the options given below :

**Options :**

70819148959.  $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819148960.  $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819148961.  $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819148962.  $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

**Question Number : 83 Question Id : 70819114701 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

- A. কোদাইকানাল
- B. কুল্লু
- C. মাউন্ট আবু
- D. পঞ্চগঙ্গা
- E. পহেলগাম

উপরের শৈল শহরগুলো ভারতের দক্ষিণ থেকে উত্তরে সঠিক ক্রমে সাজাও।

নীচের বিকল্প থেকে সঠিক উত্তরটি বাছ।

**Options :**

70819148959.  $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819148960.  $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819148961.  $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819148962.  $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

**Question Number : 84 Question Id : 70819114702 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Planning Commission in India has been replaced by :

**Options :**

70819148963. Mo HUA

70819148964. NITI Aayog

70819148965. NIUA

70819148966. PFI

**Question Number : 84 Question Id : 70819114702 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

আমাদের দেশে যোজনা আয়োগ কীসের দ্বারা পরিবর্তিত হয়েছে ?

**Options :**

70819148963. Mo HUA

70819148964. নীতি আয়োগ

70819148965. NIUA

70819148966. PFI

**Question Number : 85 Question Id : 70819114703 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819148967. 2005

70819148968. 2007

70819148969. 2009

70819148970. 2011

**Question Number : 85 Question Id : 70819114703 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

স্পেশাল ইকোনমিক জোন আইন কবে থেকে লাগু হয় ?

**Options :**

70819148967. 2005

70819148968. 2007

70819148969. 2009

70819148970. 2011

**Question Number : 86 Question Id : 70819114704 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819148971. National Horticulture Association of India.

70819148972. National Heritage Authority of India.

70819148973. National Hydroelectric Power Authority of India.

70819148974. National Highway Authority of India.

**Question Number : 86 Question Id : 70819114704 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

এন এইচ এ আই -এর সম্পূর্ণ নাম কি ? সঠিক উত্তরটি নির্বাচন কর।

**Options :**

70819148971. ন্যাশনাল হটিকালচার অ্যাসোসিয়েশন অফ ইণ্ডিয়া।

70819148972. ন্যাশনাল হেরিটেজ অথরিটি অফ ইণ্ডিয়া।

70819148973. ন্যাশনাল হাইড্রোইলেকট্রিক পাওয়ার অথরিটি অফ ইণ্ডিয়া।

70819148974. ন্যাশনাল হাইওয়ে অথরিটি অফ ইণ্ডিয়া।

**Question Number : 87 Question Id : 70819114705 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819148975. 15

70819148976. 16

70819148977. 17

70819148978. 18

**Question Number : 87 Question Id : 70819114705 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

ইউনাইটেড ন্যাশনস-এ কতগুলি স্থিতিশীল উন্নয়ন লক্ষ্য আছে ?

**Options :**

70819148975. 15

70819148976. 16

70819148977. 17

70819148978. 18

**Question Number : 88 Question Id : 70819114706 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

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

**Options :**

70819148979. 1947

70819148980. 1948

70819148981. 1950

70819148982. 1949

**Question Number : 88 Question Id : 70819114706 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ভারতে কোন বছরে প্রথম শিল্পনীতি ঘোষণা হয় ?

**Options :**

70819148979. 1947

70819148980. 1948

70819148981. 1950

70819148982. 1949

**Question Number : 89 Question Id : 70819114707 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Planning of Barcelona city in Spain is known for its :

**Options :**

70819148983. superblocks

70819148984. radial pattern

70819148985. high rise development

70819148986. waterbased transport

**Question Number : 89 Question Id : 70819114707 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

স্পেন-এ বার্সিলোনা শহরের পরিকল্পনা কি নামে পরিচিত ?



**Options :**

70819148983. সুপারফ্লকস

70819148984. রেডিয়াল প্যাটার্ন

70819148985. হাই রাইস ডেভেলপমেন্ট

70819148986. জলপথ পরিবহণ

**Question Number : 90 Question Id : 70819114708 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which of these is not an industrial city ?

**Options :**

70819148987. Durgapur

70819148988. Vishakhapatnam

70819148989. Bhubaneshwar

70819148990. Bhilai

**Question Number : 90 Question Id : 70819114708 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

কোনটি শিল্প শহর নয় ?

**Options :**

70819148987. দুর্গাপুর

70819148988. ভিশাখাপত্তনম

70819148989. ভুবনেশ্বর

70819148990. ভিলাই

**Question Number : 91 Question Id : 70819114709 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819148991. AMRUT

70819148992. Make in India

70819148993. HRIDAY

70819148994. UDAY

**Question Number : 91 Question Id : 70819114709 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ভারত সরকারের কোন schemes/programmers ঐতিহাসিক শহরের সাথে যুক্ত ?

**Options :**

70819148991. অমরুত

70819148992. মেক ইন ইণ্ডিয়া

70819148993. হৃদয়

70819148994. উদয়

**Question Number : 92 Question Id : 70819114710 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819148995. Tamil Nadu

70819148996. Karnataka

70819148997. Andhra Pradesh

70819148998. Kerala

**Question Number : 92 Question Id : 70819114710 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

কোন দক্ষিণ ভারতীয় রাজ্যে মোট ভূগর্ভস্থ জলের সবথেকে বেশী ব্যবহার হয় (শতকরা) ?

**Options :**

70819148995. তামিলনাড়ু

70819148996. কর্ণাটক

70819148997. অন্ধ্রপ্রদেশ

70819148998. কেরালা

**Question Number : 93 Question Id : 70819114711 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

Survey of India was established in :

**Options :**

70819148999. 1886

70819149000. 1876

70819149001. 1866

70819149002. 1896

**Question Number : 93 Question Id : 70819114711 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

ভারতে সমীক্ষা কবে চালু হয় ?

**Options :**

70819148999. 1886

70819149000. 1876

70819149001. 1866

70819149002. 1896

**Question Number : 94 Question Id : 70819114712 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819149003. Lok Sabha

70819149004. State Legislative Assembly

70819149005. Cabinets

70819149006. Panchayati Raj bodies

**Question Number : 94 Question Id : 70819114712 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

73 তম অ্যামেণ্ডমেন্ট অ্যাক্ট (73<sup>rd</sup> CAA) 1992 অনুসারে সর্বপ্রথম এক-তৃতীয়াংশ মহিলাদের জন্য নিম্নলিখিতের কোথায় আসন সংরক্ষিত আছে ?

**Options :**

70819149003. লোকসভা

70819149004. স্টেট লেজিস্লেটিভ অ্যাসেম্বলী

70819149005. ক্যাবিনেট

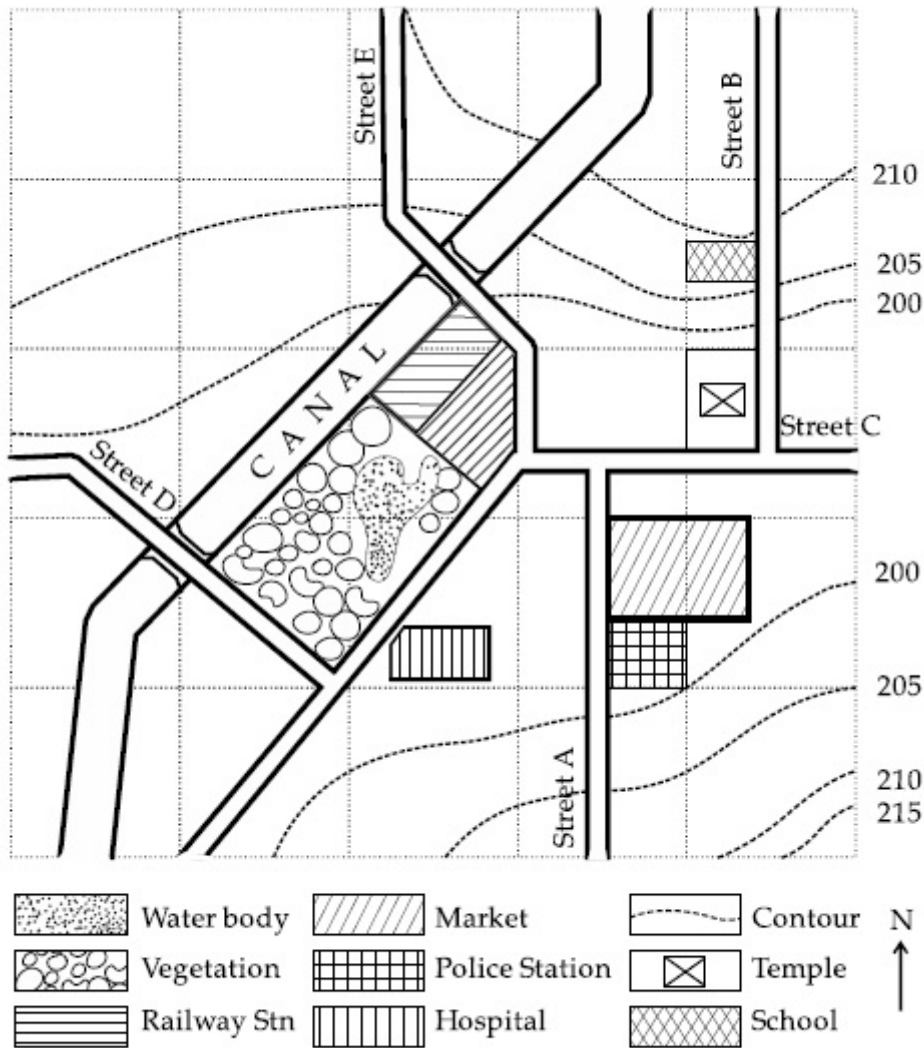
70819149006. পঞ্চায়েত রাজ বডিস

**Question Number : 95 Question Id : 70819114713 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

## Map Reading.



With reference to the diagram, choose the correct statement.

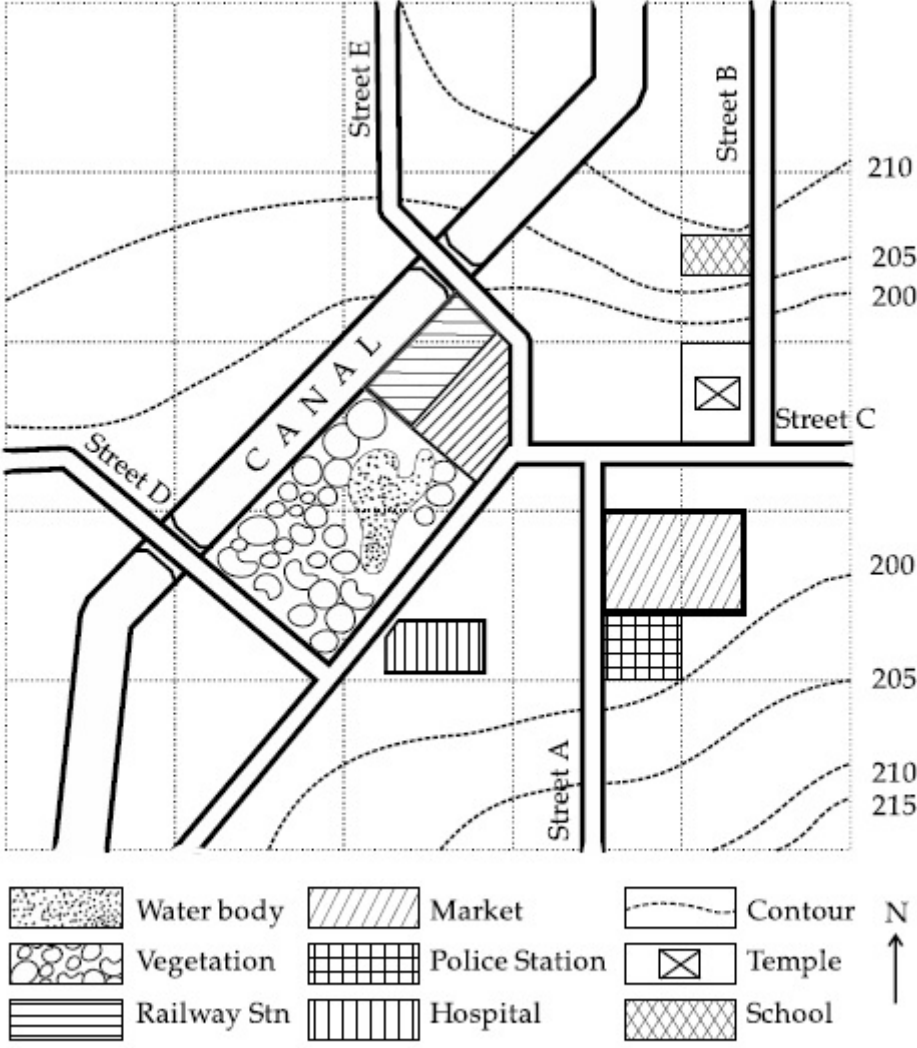
### Options :

70819149007. Slope of land on which school is located is flatter than the slope of land on which hospital is located.
70819149008. Slope of land on which police station is located is steeper than the slope of land on which school is located.
70819149009. Slope of land on which school is located is steeper than the slope of land on which temple is located.
70819149010. Slope of land on which school is located is the same as the slope of land on which temple is located.

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ম্যাপ অধ্যয়ন :



উক্ত চিত্রের পরিপ্রেক্ষিতে, সঠিক উত্তরটি চিহ্নিত কর।

Options :

70819149007. যে জমিতে স্কুল আছে, তার ঢাল, যে জমিতে হাসপাতাল আছে তার চেয়ে কম।

70819149008. যে জমিতে পুলিশ স্টেশন আছে, তার ঢাল, যে জমিতে স্কুল আছে তার চেয়ে খাড়া।

70819149009. যে জমিতে স্কুল আছে সেটা, যে জমিতে মন্দির আছে তার চেয়ে খাড়া।

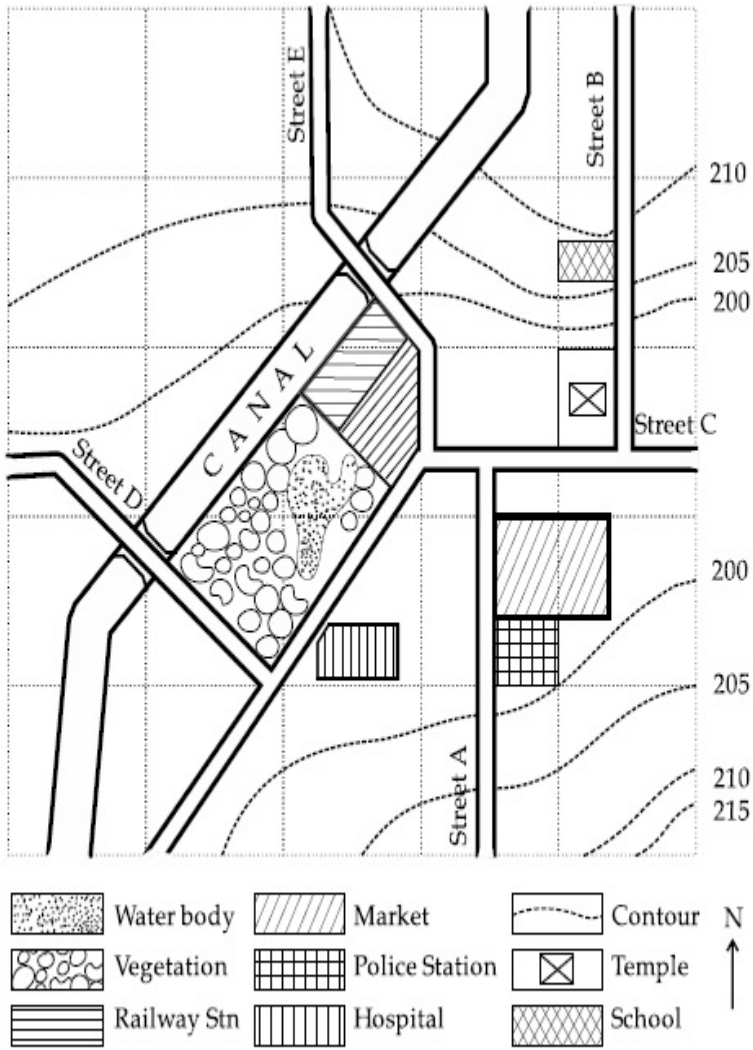
70819149010. স্কুল ও মন্দিরের জমির ঢাল সমান।

Question Number : 96 Question Id : 70819114714 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



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

Options :

70819149011. North

70819149012. North - East

70819149013. South - West

70819149014. East

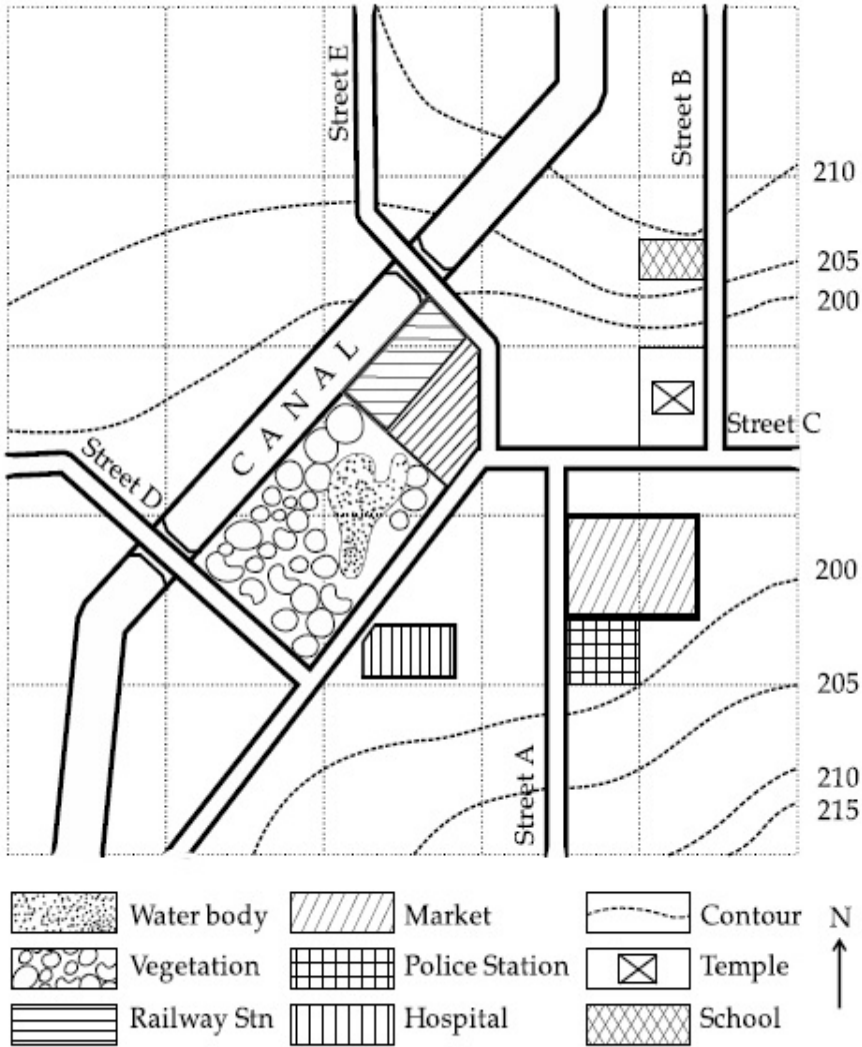


Question Number : 96 Question Id : 70819114714 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ম্যাপ অধ্যয়ন :



উপরোক্ত চিত্রে এক ব্যক্তি রেল স্টেশন থেকে মন্দিরের দিকে যেতে \_\_\_\_\_ দিকে যেতে হবে।

Options :

70819149011. উত্তর

70819149012. উত্তর পূর্ব

70819149013. দক্ষিণ পশ্চিম

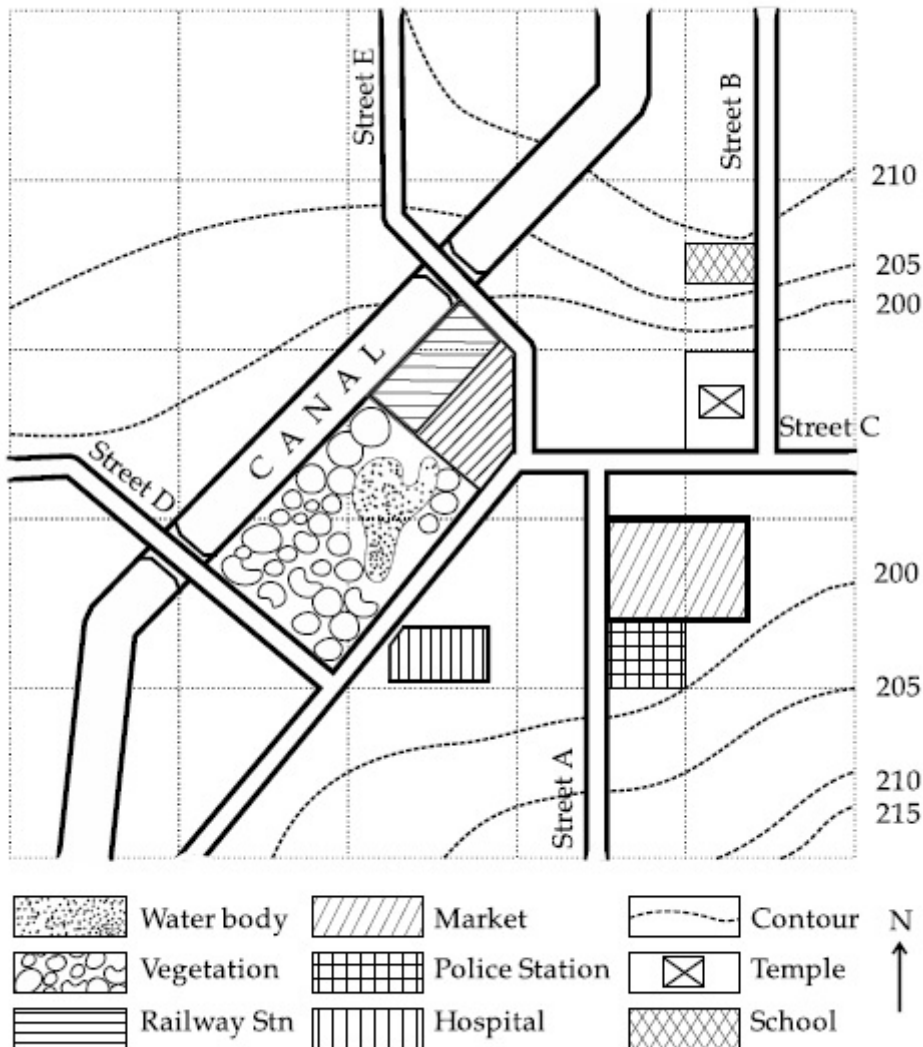
70819149014. পূর্ব

Question Number : 97 Question Id : 70819114715 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



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

Options :

70819149015. 5 m higher than police station.

70819149016. 5 m higher than school.

70819149017. same level as police station.

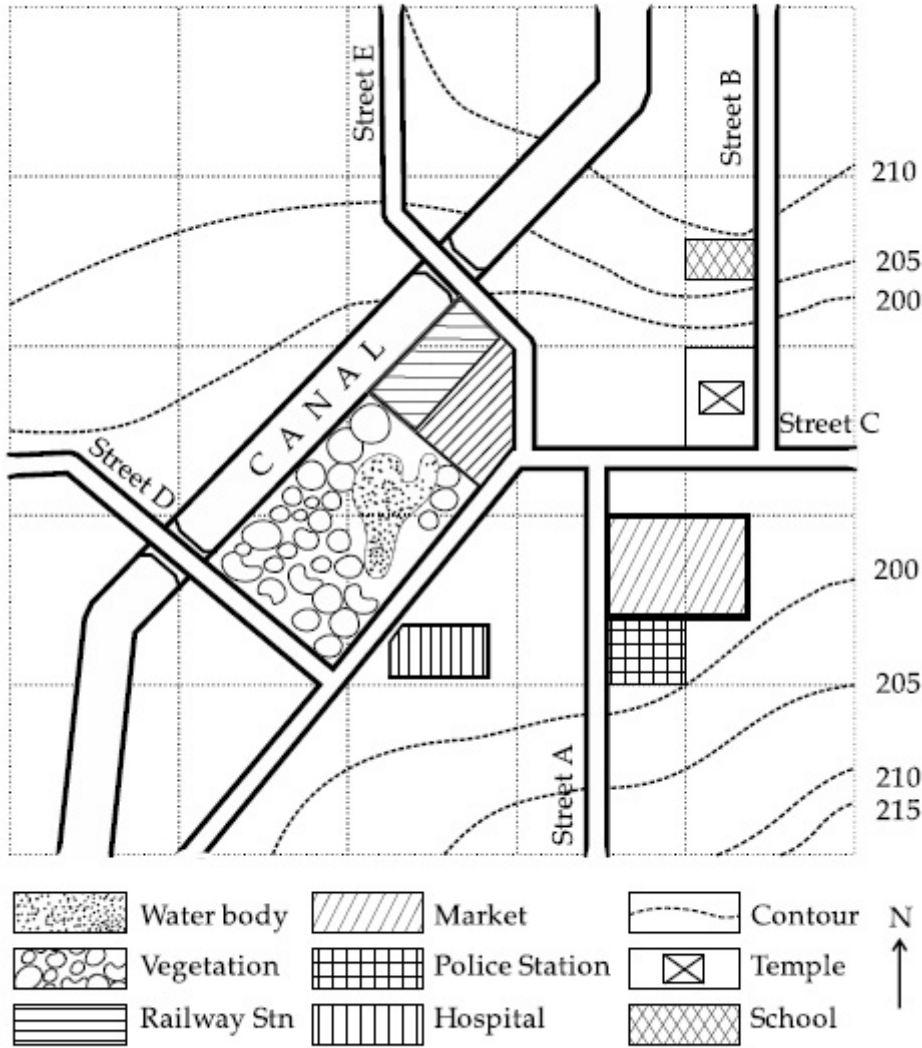
70819149018. same level as school.

Question Number : 97 Question Id : 70819114715 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ম্যাপ অধ্যয়ন :



উপরোক্ত চিত্রে জলাভূমী কোন লেভেল-এ অবস্থিত ?

Options :

70819149015. পুলিশ স্টেশনের চেয়ে 5 m উপরে।

70819149016. স্কুল-এর থেকে 5 m উপরে।

70819149017. পুলিশ স্টেশনের লেভেলে।

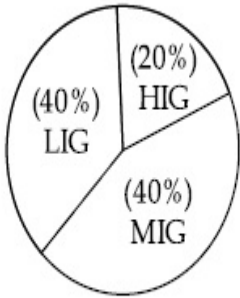
70819149018. স্কুল লেভেলের সাথে একই লেভেল-এ।

Question Number : 98 Question Id : 70819114716 Question Type : MCQ Option Shuffling : Yes

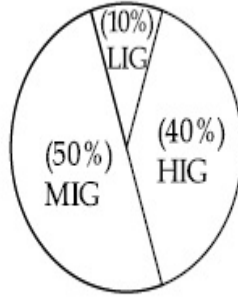
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Higher Secondary Education



College Education

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

**Options :**

70819149019. 4 : 1

70819149020. 1 : 5

70819149021. 6 : 1

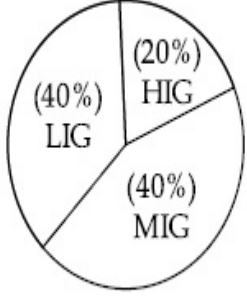
70819149022. 1 : 4

Question Number : 98 Question Id : 70819114716 Question Type : MCQ Option Shuffling : Yes

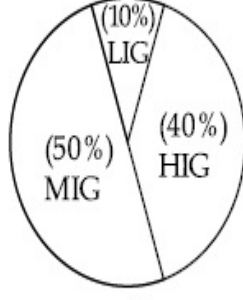
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

নীচের পাই চিত্রে ছাত্রদের পারিবারিক আয় অনুপাতে উচ্চ মাধ্যমিকে ছাত্র ভর্তি এবং কলেজ শিক্ষার distribution দেখান হয়েছে।



উচ্চ মাধ্যমিক শিক্ষা



কলেজ শিক্ষা

LIG বিভাগে উচ্চ মাধ্যমিক ও কলেজ-এ পড়া ছাত্রদের অনুপাত :

**Options :**

70819149019. 4 : 1

70819149020. 1 : 5

70819149021. 6 : 1

70819149022. 1 : 4

**Question Number : 99 Question Id : 70819114717 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819149023. The density of population in urban area is 1000 persons/sq.km.

70819149024. The density of population in urban area is 849 persons/sq.km.

70819149025. The density of population in urban area is 4290 persons/sq.km.

70819149026. The density of population in urban area is 7800 persons/sq.km.

**Question Number : 99 Question Id : 70819114717 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

পৃথিবীর ভূমিপৃষ্ঠের মান 510 মিলিয়ন  $\text{km}^2$ । সমগ্র ভূমিপৃষ্ঠের 30% স্থলভূমি। শহরে সমগ্র স্থলভাগের এক তৃতীয়াংশ, বিশ্ব জনসংখ্যা 7.8 বিলিয়ন এবং 55% শহরের। সবথেকে উপযুক্ত উত্তরটি নির্বাচন কর।

**Options :**

70819149023. শহরে জনঘনত্ব 1000/sq.km.

70819149024. শহরে জনঘনত্ব 849/sq.km.

70819149025. শহরে জনঘনত্ব 4290/sq.km.

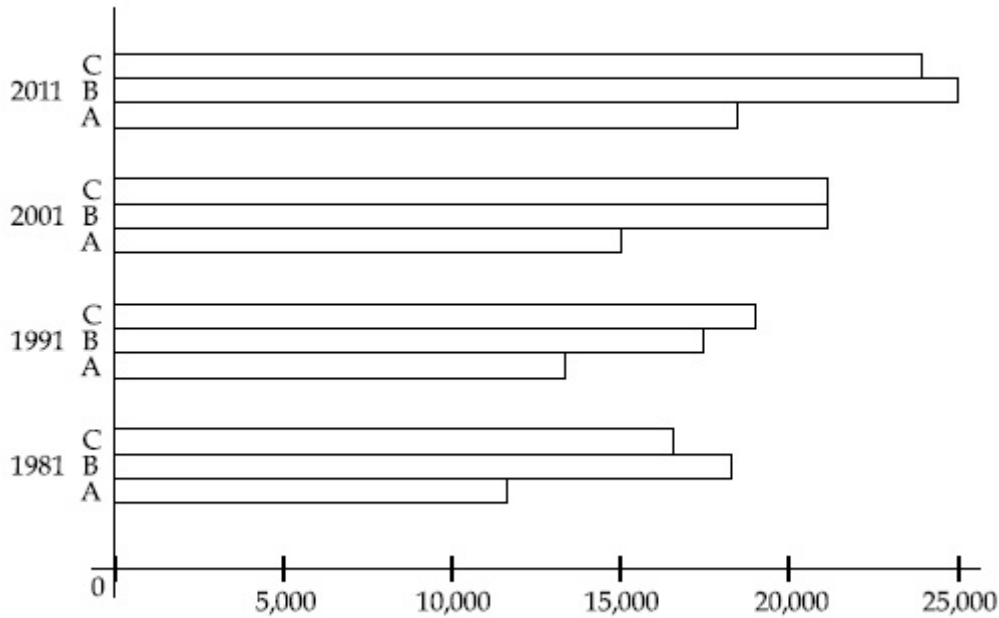
70819149026. শহরে জনঘনত্ব 7800/sq.km.

**Question Number : 100 Question Id : 70819114718 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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



Choose the correct statement :

**Options :**

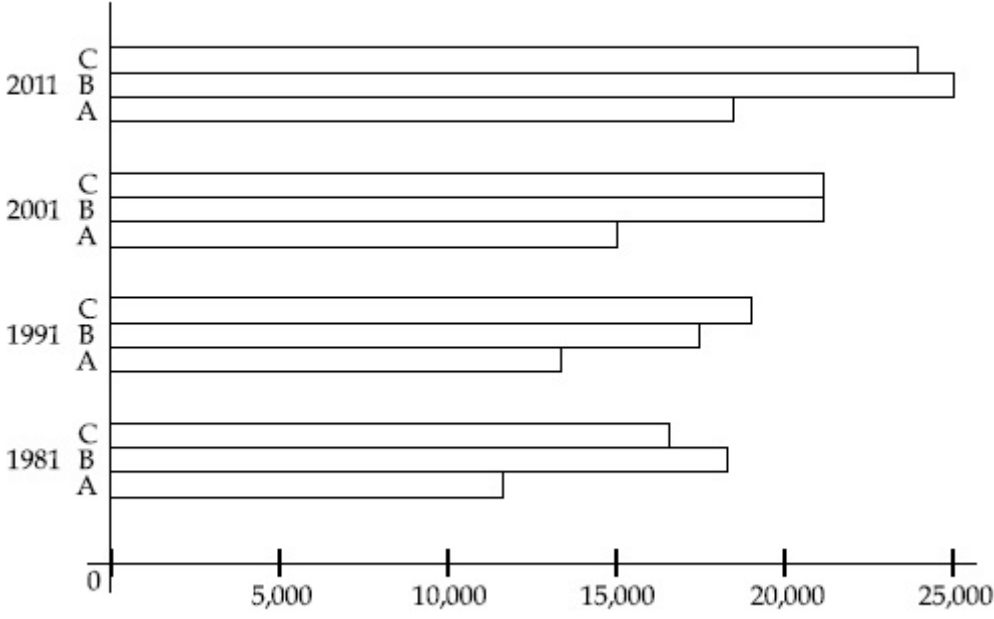
70819149027. City A shows the increase in population from 1981 to 2011 and city C does not show the increase likewise.
70819149028. City B shows a continuous decline in population from 1981-2011 whereas city A shows an increase.
70819149029. Population in city A is increasing in each decade from 1981 to 2001 whereas city B shows a decline from 1981 to 1991 and then it increases from 1991 to 2001.
70819149030. City C shows continuous decline in population in various decades whereas city B shows increase.

**Question Number : 100 Question Id : 70819114718 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

1981-2011 বর্ষের A, B এবং C শহরের জনসংখ্যা :



সঠিক উত্তরটি নির্বাচন কর :

**Options :**

70819149027. শহর A, 1981 থেকে 2011-এ জনসংখ্যা বৃদ্ধি দেখায় কিন্তু শহর C সেরম কিছু দেখায় না।

70819149028. শহর B, 1981 থেকে 2011-এ একটানা জনসংখ্যা হ্রাস দেখায়, যেখানে A বৃদ্ধি দেখায়।

70819149029. 1981 থেকে 2001-এ প্রতি দশকে A শহরে জনসংখ্যা বাড়ছে, B দেখাচ্ছে 1981 থেকে 1991 জনসংখ্যা কমছে এবং তাই 1991 থেকে 2001 তে বাড়ছে।

70819149030. শহর C বিভিন্ন দশকে জনসংখ্যার ক্রমাগত পতন দেখায়, যেখানে B বৃদ্ধি দেখায়।

**Question Number : 101 Question Id : 70819114719 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



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

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

The median speed of the vehicles is :

**Options :**

70819149031.  $26 \text{ kmhr}^{-1}$

70819149032.  $21.5 \text{ kmhr}^{-1}$

70819149033.  $30 \text{ kmhr}^{-1}$

70819149034.  $28.5 \text{ kmhr}^{-1}$

**Question Number : 101 Question Id : 70819114719 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

100টি গাড়ির গতিবেগ-এর একটি সমীক্ষায় গাড়ির গতিবেগ ও গাড়ির সংখ্যা নিম্নলিখিত টেবিলটিতে দেওয়া আছে।

গাড়ির গতিবেগ (km/hr)	গাড়ির সংখ্যা
20	6
25	20
28	24
29	28
33	15
38	4
40	2
45	1

গাড়িগুলির গড় গতিবেগ হল :

**Options :**

70819149031.  $26 \text{ kmhr}^{-1}$

70819149032.  $21.5 \text{ kmhr}^{-1}$

70819149033.  $30 \text{ kmhr}^{-1}$

70819149034.  $28.5 \text{ kmhr}^{-1}$

**Question Number : 102 Question Id : 70819114720 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819149035. As a charity by privileged people.

70819149036. As a way to reduce crime.

70819149037. As a way to sensitize travellers about poor living conditions in the society.

70819149038. As an adventure activity.

**Question Number : 102 Question Id : 70819114720 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819149035. As a charity by privileged people.

70819149036. As a way to reduce crime.

70819149037. As a way to sensitize travellers about poor living conditions in the society.

70819149038. As an adventure activity.

**Question Number : 103 Question Id : 70819114721 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819149039. Learning

70819149040. Staring

70819149041. Peeping

70819149042. Gloating

**Question Number : 103 Question Id : 70819114721 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819149039. Learning

70819149040. Staring

70819149041. Peeping

70819149042. Gloating

**Question Number : 104 Question Id : 70819114722 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

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

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

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

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

**Options :**

70819149043. Both A and R are true and R is the correct explanation of A

70819149044. Both A and R are true but R is NOT the correct explanation of A

70819149045. A is true but R is false

70819149046. A is false but R is true

**Question Number : 104 Question Id : 70819114722 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

নীচে দুটি সিদ্ধান্ত দেওয়া আছে। একটি চিহ্নিত A হিসাবে এবং অপরটি চিহ্নিত R হিসাবে।

সিদ্ধান্ত A : গত দুই দশক ধরে যৌথ মনোযোগ-এর বহু বিস্তৃতি কমে যাচ্ছে।

কারণ R : বহু তথ্যের সহজ লভ্যতা এবং দ্রুত পাওয়ার সুবিধায় একটি নির্দিষ্ট বিষয়ে উৎসাহ কমে যাচ্ছে।

উপরের বক্তব্যের ভিত্তিতে নীচের কোনটা সবথেকে উপযুক্ত ?

**Options :**

70819149043. (A) এবং (R) উভয়েই সঠিক এবং (R) সঠিক ব্যাখ্যা।

70819149044. (A) এবং (R) উভয়েই সঠিক কিন্তু (R) সঠিক ব্যাখ্যা নয়।

70819149045. (A) সঠিক কিন্তু (R) সঠিক নয়।

70819149046. (A) সঠিক নয় কিন্তু (R) সঠিক।

**Question Number : 105 Question Id : 70819114723 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

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

**Options :**

70819149047. Both A and R are true and R is the correct explanation of A

70819149048. Both A and R are true but R is NOT the correct explanation of A

70819149049. A is true but R is false

70819149050. A is false but R is true

**Question Number : 105 Question Id : 70819114723 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

নীচে দুটি সিদ্ধান্ত দেওয়া আছে। একটি চিহ্নিত A হিসাবে এবং অপরটি চিহ্নিত R হিসাবে।  
সিদ্ধান্ত A : গত দুদশকে ভারতে বিবাহ বিচ্ছেদ-এর হার বেড়েছে।  
কারণ R : বিবাহিত দম্পতির ক্রমবর্ধমান সংখ্যা যারা সন্তান চায় না।  
উপরের বক্তব্যের ভিত্তিতে নীচের কোনটা সবথেকে উপযুক্ত ?

**Options :**

70819149047. (A) এবং (R) উভয়েই সঠিক এবং (R) সঠিক ব্যাখ্যা।

70819149048. (A) এবং (R) উভয়েই সঠিক কিন্তু (R) সঠিক ব্যাখ্যা নয়।

70819149049. (A) সঠিক কিন্তু (R) সঠিক নয়।

70819149050. (A) সঠিক নয় কিন্তু (R) সঠিক।

## Drawing

Section Id :	708191529
Section Number :	5
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	708191809
Question Shuffling Allowed :	No

Question Number : 106 Question Id : 70819114724 Question Type : SUBJECTIVE

Correct Marks : 50

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

OR

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



**Question Number : 106 Question Id : 70819114724 Question Type : SUBJECTIVE**

**Correct Marks : 50**

এই প্রশ্নের উত্তরের জন্য প্রদত্ত স্থানটিতে প্রদত্ত রেফারেন্স চিত্রের আনুপাতিক চিত্র অঙ্কন করুন। বিদ্যার্থীরা তাদের পছন্দের যে কোনও সাদা বা কালো রেগারিং কৌশল ব্যবহার করতে পারবেন।

অথবা

প্রদত্ত চিত্রটি ডিকোড করে একটি সম্বলিত চিত্র সংরচনা করতে হবে। বিদ্যার্থীরা নিজের পছন্দ মত আকারের ফ্রেমে সাদা ও কালো রেগারিং কৌশল ব্যবহার করে প্রদত্ত স্থানে অঙ্কন করুন।





**Question Number : 107 Question Id : 70819114725 Question Type : SUBJECTIVE**

**Correct Marks : 50**

Draw a scene of a Kite festival by using colors.

OR

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

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

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

Use 'Cool Colorscheme' for composition.

**Question Number : 107 Question Id : 70819114725 Question Type : SUBJECTIVE**

**Correct Marks : 50**

ঘুড়ি উৎসবের একটি দৃশ্য চিত্র অঙ্কন করুন রং ব্যবহার করে।

অথবা

নিম্নলিখিতে দুই প্রকার বস্তুর মাপ দেওয়া আছে। প্রদত্ত মাপকাঠি ব্যবহার করে একটি ভারসাম্যযুক্ত 3-D চিত্র সংরচনা অঙ্কন করুন।

(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 রংসংগতি’ এর ব্যবহার করুন।