

<b>Question Paper Name :</b>	B ARCH EP 23rd Feb 2021 Shift 2
<b>Subject Name :</b>	B ARCH EP
<b>Creation Date :</b>	2021-02-22 14:00:50
<b>Duration :</b>	180
<b>Number of Questions :</b>	82
<b>Total Marks :</b>	400
<b>Display Marks:</b>	Yes

## B ARCH EP

<b>Group Number :</b>	1
<b>Group Id :</b>	708191152
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	400
<b>Is this Group for Examiner? :</b>	No

## Mathematics Section A

<b>Section Id :</b>	708191504
<b>Section Number :</b>	1
<b>Section type :</b>	Online

**Mandatory or Optional :** Mandatory  
**Number of Questions :** 20  
**Number of Questions to be attempted :** 20  
**Section Marks :** 80  
**Mark As Answered Required? :** Yes  
**Sub-Section Number :** 1  
**Sub-Section Id :** 708191784  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 70819114184 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 :**

70819147111.  $\frac{121}{3}$

70819147112.  $\frac{122}{3}$

70819147113.  $\frac{125}{3}$

70819147114.  $\frac{128}{3}$

**Question Number : 1 Question Id : 70819114184 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

ਇਨਟੀਗਰਲ  $\int_{-4}^4 |9-x^2| dx$  ਦਾ ਮੁੱਲ ਹੈ :

Options :

70819147111.  $\frac{121}{3}$

70819147112.  $\frac{122}{3}$

70819147113.  $\frac{125}{3}$

70819147114.  $\frac{128}{3}$

Question Number : 2 Question Id : 70819114185 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 :

70819147115.  $\frac{31}{13}$

70819147116.  $\frac{108}{13}$

70819147117.  $\frac{27}{2}$

70819147118.  $\frac{54}{7}$

Question Number : 2 Question Id : 70819114185 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਜਿਮਾਇਤੀ ਲੜੀ ਦੇ ਅਸਿਮਤ ਪਦਾਂ ਦਾ ਜੋੜ 3 ਹੈ ਅਤੇ ਇਸਦੇ ਪਦਾਂ ਦੇ ਵਰਗਾਂ ਦਾ ਜੋੜ  $\frac{9}{2}$  ਹੈ। ਪਦਾਂ ਦੇ ਘਣਾਂ ਦਾ ਜੋੜ ਹੋਵੇਗਾ :

Options :

70819147115.  $\frac{31}{13}$

70819147116.  $\frac{108}{13}$

70819147117.  $\frac{27}{2}$

70819147118.  $\frac{54}{7}$

Question Number : 3 Question Id : 70819114186 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 :

70819147119.  $P \Leftrightarrow P \vee q$

70819147120.  $(P \wedge q) \Leftrightarrow P$

70819147121.  $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819147122.  $(P \vee \sim P) \wedge (q \vee (\sim q))$

Question Number : 3 Question Id : 70819114186 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਹੇਠਾਂ ਲਿਖੇ ਬੁਲੀਅਨ ਸਮੀਕਰਨ ਵਿਚੋਂ ਕਿਹੜਾ ਪੁਨਰ ਉਕਤੀ ਟਾਉਟਾਲੋਜੀ ਹੈ ?

Options :

70819147119.  $P \Leftrightarrow P \vee q$

70819147120.  $(P \wedge q) \Leftrightarrow P$

70819147121.  $(P \wedge (\sim P \vee q)) \vee (\sim q)$

70819147122.  $(P \vee \sim P) \wedge (q \vee (\sim q))$

Question Number : 4 Question Id : 70819114187 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 :

70819147123. a, b and c are in Arithmetic Progression

70819147124. a, b and c are in Geometric Progression

70819147125. a, 2b and c are in Arithmetic Progression

70819147126. a, b and c satisfy  $2b^2 = ac$

Question Number : 4 Question Id : 70819114187 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਮੰਨ ਲਓ  $|a| < 1, |b| < 1, |c| < 1$  ਅਤੇ  $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n$ . ਜੇਕਰ  $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$  ਅੰਕਗਣਿਤਿਕ ਲੜੀ ਵਿੱਚ

ਹਨ, ਤੱਦ :

Options :

70819147123. a, b ਅਤੇ c ਅੰਕਗਣਿਤਿਕ ਲੜੀ ਵਿੱਚ ਹਨ।

70819147124. a, b ਅਤੇ c ਜਿਮਾਇਤੀ ਲੜੀ ਵਿੱਚ ਹਨ।

70819147125. a, 2b ਅਤੇ c ਅੰਕਗਣਿਤਿਕ ਲੜੀ ਵਿੱਚ ਹਨ।

70819147126. a, b ਅਤੇ c,  $2b^2 = ac$  ਨੂੰ ਸੰਤੁਸ਼ਟ ਕਰਦੇ ਹਨ।

Question Number : 5 Question Id : 70819114188 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 :

70819147127.  $15e + 5$

70819147128.  $15e - 5$

70819147129.  $16e - 5$

70819147130.  $16e - 7$

Question Number : 5 Question Id : 70819114188 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Options :

70819147127.  $15e + 5$

70819147128.  $15e - 5$

70819147129.  $16e - 5$

70819147130.  $16e - 7$

Question Number : 6 Question Id : 70819114189 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 :

70819147131. 5

70819147132. 3

70819147133. 7

70819147134. 1

Question Number : 6 Question Id : 70819114189 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\lambda$  ਦਾ ਨਿਊਨਤਮ ਥਨਾਤਮਕ ਪੂਰਨ ਅੰਕ ਮੁੱਲ, ਜਦਕਿ  $10^{50} + (3 \times (4)^{52}) + \lambda$ , 9 ਤੇ ਵੰਡਿਆ ਜਾਵੇ ਹੈ :

Options :

70819147131. 5

70819147132. 3

70819147133. 7

70819147134. 1

Question Number : 7 Question Id : 70819114190 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 :

70819147135. 455

70819147136. 421

70819147137. 435

70819147138. 441

Question Number : 7 Question Id : 70819114190 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਤਿੰਨ ਸਮਾਂਤਰ ਅਤੇ ਸਮਤਲੀ ਰੇਖਾਵਾਂ ਉਪਰ 4, 5 ਅਤੇ 6 ਬਿੰਦੂ ਹਨ । ਜੇਕਰ ਚਾਰ ਜਾਂ ਇੱਸ ਤੋਂ ਵੱਧ ਬਿੰਦੂਆਂ ਦਾ ਕੋਈ ਸਮੂਹ ਇੱਕ ਚੱਕਰ ਉੱਤੇ ਨਹੀਂ ਹੈ ਅਤੇ ਉਹਨਾਂ ਤਿੰਨ ਬਿੰਦੂਆਂ ਦਾ ਕੋਈ ਵੀ ਸਮੂਹ ਜੋ ਕਿ ਵੱਖ-ਵੱਖ ਰੇਖਾਵਾਂ ਤੇ ਹਨ, ਸਮਰੇਖੀ ਨਹੀਂ ਹੈ । ਤੱਦ ਉਹਨਾਂ ਚੱਕਰਾਂ ਦੀ ਗਿਣਤੀ ਜੋ ਕਿ ਸਿਰਫ਼ ਤਿੰਨ ਬਿੰਦੂਆਂ ਵਿੱਚੋਂ ਲੰਘਦੇ ਹਨ :

**Options :**

70819147135. 455

70819147136. 421

70819147137. 435

70819147138. 441

**Question Number : 8 Question Id : 70819114191 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 :**

70819147139.  $a = 1, b = 0$

70819147140.  $a = 0, b = 1$

70819147141.  $a = 0, b = -1$

70819147142.  $a = -1, b = 1$

**Question Number : 8 Question Id : 70819114191 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

ਜੇਕਰ  $y = \frac{ax - b}{(x-1)(x-4)}$  ਕੋਲ ਬਿੰਦੂ  $(2, -1)$  ਇੱਕ ਸੀਮਾਂਤ ਹੈ ਤੱਦ  $a$  ਅਤੇ  $b$  ਦੇ ਮੁੱਲ ਹਨ :

**Options :**

70819147139.  $a = 1, b = 0$

70819147140.  $a = 0, b = 1$

70819147141.  $a = 0, b = -1$

70819147142.  $a = -1, b = 1$

**Question Number : 9 Question Id : 70819114192 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 :**

70819147143.  $\frac{9}{13}$

70819147144.  $\frac{15}{4}$

70819147145.  $\frac{13}{9}$

70819147146.  $\frac{1}{13}$

**Question Number : 9 Question Id : 70819114192 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

ਤਲ  $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$  ਅਤੇ  $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$  ਵਿਚਕਾਰ ਦੂਰੀ ਹੈ :

Options :

70819147143.  $\frac{9}{13}$

70819147144.  $\frac{15}{4}$

70819147145.  $\frac{13}{9}$

70819147146.  $\frac{1}{13}$

Question Number : 10 Question Id : 70819114193 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 :

70819147147.  $\frac{7}{20}$

70819147148.  $\frac{1}{20}$

70819147149.  $\frac{19}{20}$

70819147150.

Question Number : 10 Question Id : 70819114193 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਦੇ ਵਿਦਿਆਰਥੀਆਂ X ਅਤੇ Y ਵਲੋਂ ਗਣਿਤ ਦੀ ਇੱਕ ਸਮਸਿਆ ਨੂੰ ਹੱਲ ਕਰਨ ਦੀ ਸੰਭਾਵਨਾ ਕ੍ਰਮਵਾਰ  $\frac{1}{4}$  ਅਤੇ  $\frac{1}{5}$  ਹੈ। ਜੇ ਦੋਵੇਂ ਸਮਸਿਆ ਨੂੰ ਆਪਣੇ-ਆਪਣੇ ਢੰਗ ਨਾਲ ਹੱਲ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ ਕਰਨ ਤਾਂ ਦੋਹਾਂ ਵਿੱਚੋਂ ਸਿਰਫ਼ ਇੱਕ ਵਿਦਿਆਰਥੀ ਵਲੋਂ ਹਲ ਲੱਭਣ ਦੀ ਸੰਭਾਵਨਾ ਬਰਾਬਰ ਹੈ :

Options :

70819147147.  $\frac{7}{20}$

70819147148.  $\frac{1}{20}$

70819147149.  $\frac{19}{20}$

70819147150.  $\frac{12}{20}$

Question Number : 11 Question Id : 70819114194 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 :

70819147151.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819147152.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819147153.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819147154.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 11 Question Id : 70819114194 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਮਿਸ਼ਰਿਤ ਸੰਖਿਆ  $\frac{1+i}{1-i}$  ਦਾ ਧਰੁਵੀ ਨਿਰੂਪਣ ਬਰਾਬਰ ਹੈ :

**Options :**

70819147151.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819147152.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819147153.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819147154.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 12 Question Id : 70819114195 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 :**

70819147155. <sup>2</sup>

70819147156. <sup>3</sup>

70819147157. <sup>4</sup>

70819147158. <sup>1</sup>

**Question Number : 12 Question Id : 70819114195 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਜੇਕਰ ਇੱਕ ਰੇਖਾ ਜੋ ਕਿ ਬਿੰਦੂ  $(1, 0)$  ਅਤੇ  $(3, 0)$  ਨੂੰ ਮਿਲਾ ਕੇ ਬਣੇ ਰੇਖਾਖੰਡ ਨੂੰ  $2:1$  ਅਨੁਪਾਤ ਵਿੱਚ ਵੰਡਦੀ ਹੈ ਅਤੇ ਇਸ ਉੱਪਰ ਲੰਬ ਵੀ ਹੈ, ਉਸਦੀ ਸਮੀਕਰਨ  $ax = 7$  ਹੈ। ਤੱਦ 'a' ਮੁੱਲ ਬਰਾਬਰ ਹੈ :

**Options :**

70819147155. <sup>2</sup>

70819147156. <sup>3</sup>

70819147157. <sup>4</sup>

70819147158. <sup>1</sup>

**Question Number : 13 Question Id : 70819114196 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 :**

70819147159.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819147160.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819147161.  $2(x^2 + y^2) - x + y + 1 = 0$

70819147162.  $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 13 Question Id : 70819114196 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਚੱਕਰ, ਜੋ ਕਿ ਰੇਖਾ  $x + y = 2$  ਤੋਂ ਚੱਕਰ  $x^2 + y^2 - 2x = 0$  ਦਾ ਦਰਪਣ ਪ੍ਰਤਿਬਿੰਬ ਹੈ, ਦਾ ਸਮੀਕਰਨ ਹੈ :

Options :

70819147159.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819147160.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819147161.  $2(x^2 + y^2) - x + y + 1 = 0$

70819147162.  $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 14 Question Id : 70819114197 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 :

70819147163.  $y+3=0$  and  $x-1=0$

70819147164.  $x-3=0$  and  $y+1=0$

70819147165.  $x+3=0$  and  $x-1=0$

70819147166.  $y+3=0$  and  $y-1=0$

**Question Number : 14 Question Id : 70819114197 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਇਲਿਪਸ  $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$  ਅਤੇ ਚੱਕਰ  $(x+1)^2 + (y-1)^2 = 4$  ਦੀਆਂ ਸਾਂਝੀਆਂ ਸਪੱਰਸ਼ ਰੇਖਾਵਾਂ ਦੇ ਸਮੀਕਰਨ

ਹਨ ।

**Options :**

70819147163.  $y+3=0$  ਅਤੇ  $x-1=0$

70819147164.  $x-3=0$  ਅਤੇ  $y+1=0$

70819147165.  $x+3=0$  ਅਤੇ  $x-1=0$

70819147166.  $y+3=0$  ਅਤੇ  $y-1=0$

**Question Number : 15 Question Id : 70819114198 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 :**

70819147167.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819147168.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819147169.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819147170.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 15 Question Id : 70819114198 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਜੇਕਰ  $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$  ਤਾਂ  $A^k$  ( $k \in \mathbb{N}$ ) ਹੈ :

Options :

70819147167.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819147168.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819147169.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819147170.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819114199 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 :

70819147171.  $s=5, t=13$

70819147172.  $s \neq 5$

70819147173.  $s=5, t \neq 13$

70819147174.  $t \neq 13$

Question Number : 16 Question Id : 70819114199 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$s$  ਅਤੇ  $t$  ਦੇ ਮੁੱਲ, ਜਿਨ੍ਹਾਂ ਲਈ ਸਮੀਕਰਨ ਪ੍ਰਣਾਲੀ

$$x_1 + x_2 + x_3 = 5$$

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

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

ਕੋਲ ਕੋਈ ਹੱਲ ਨਹੀਂ ਹੈ :

Options :

70819147171.  $s=5, t=13$

70819147172.  $s \neq 5$

70819147173.  $s=5, t \neq 13$

70819147174.  $t \neq 13$

Question Number : 17 Question Id : 70819114200 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 :

70819147175. 1

70819147176. -1

70819147177. 0

70819147178. 2

Question Number : 17 Question Id : 70819114200 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  ਦੇ ਬਾਬਤ  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  ਦਾ ਡਿਫਰੈਨਸੀਏਸ਼ਨ  $(1, \infty)$  ਅੰਤਰਾਲ ਵਿੱਚ ਹੈ :

Options :

70819147175. 1

70819147176. -1

70819147177. 0

70819147178. <sup>2</sup>

Question Number : 18 Question Id : 70819114201 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 :

70819147179.  $\frac{\pi}{6}$

70819147180.  $\frac{\pi}{4}$

70819147181.  $\frac{\pi}{3}$

70819147182.  $\frac{5\pi}{12}$

Question Number : 18 Question Id : 70819114201 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਮੰਨ ਲਓ ਤਿੰਨ ਵੈਕਟਰ  $\vec{a}$ ,  $\vec{b}$  ਅਤੇ  $\vec{c}$  ਇਸ ਤਰ੍ਹਾਂ ਹਨ ਕਿ  $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$ . ਜੇਕਰ  $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$ , ਤਦ

$\vec{a}$  ਅਤੇ  $\vec{c}$  ਵਿੱਚਕਾਰ ਨਿਊਨ ਕੋਣ ਹੈ :

Options :

70819147179.

$$\frac{\pi}{6}$$

70819147180.  $\frac{\pi}{4}$

70819147181.  $\frac{\pi}{3}$

70819147182.  $\frac{5\pi}{12}$

**Question Number : 19 Question Id : 70819114202 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 :**

70819147183.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819147184.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819147185.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819147186.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

**Question Number : 19 Question Id : 70819114202 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਡਿਫਰੈਂਸ਼ਿਅਲ ਸਮੀਕਰਨ  $(1+y^2)dx = (\tan^{-1}y - x)dy$  ਦਾ ਹੱਲ ਹੈ :  
(ਇੱਥੇ  $c$  ਕੋਈ ਵੀ ਅੱਚਲ ਹੈ)

**Options :**

70819147183.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819147184.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819147185.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819147186.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

**Question Number : 20 Question Id : 70819114203 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 :**

70819147187.  $[-5, -4] \cup [4, 5]$

70819147188.  $[-5, 4) \cup (-4, 5]$

70819147189.  $(-5, -4) \cup (4, 5)$

70819147190.  $(-5, 4) \cup (-4, 5)$

**Question Number : 20 Question Id : 70819114203 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਜੇਕਰ ਵੈਕਟਰ  $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$  ਪੁਰਿਆਂ ਦੀਆਂ ਧਨਾਤਮਕ ਦਿਸ਼ਾਵਾਂ ਨਾਲ ਨਿਰਊਨ ਕੋਣ ਬਣਾਉਂਦਾ ਹੈ, ਤਾਂ  $x$  ਦਾ ਮੁੱਲ ਕਿੱਸ ਵਿੱਚ ਹੋਵੇਗਾ :

**Options :**

70819147187.  $[-5, -4] \cup [4, 5]$

70819147188.  $[-5, 4) \cup (-4, 5]$

70819147189.  $(-5, -4) \cup (4, 5)$

70819147190.  $(-5, 4) \cup (-4, 5)$

## Mathematics Section B

<b>Section Id :</b>	708191505
<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>	708191785
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 70819114204 Question Type : SA**

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 21 **Question Id :** 70819114204 **Question Type :** SA

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

$$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx \text{ ----- है ।}$$

**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 :** 70819114205 **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 : 70819114205 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$9\tan^2\theta + 4\cot^2\theta$  ਦਾ ਨਿਊਨਤਮ ਮੁੱਲ \_\_\_\_\_ ਹੈ ।

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 : 70819114206 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 : 70819114206 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ਬਿੰਦੂ (1, 2, 3) ਤੋਂ ਰੇਖਾ  $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$  ਦੇ ਲੰਬ ਦੀ ਲੰਬਾਈ \_\_\_\_\_ ਹੈ ।

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 : 70819114207 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 : 70819114207 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ਜੇਕਰ  $\log_3 2$ ,  $\log_3(2^x - 5)$  ਅਤੇ  $\log_3\left(2^x - \frac{7}{2}\right)$  ਅੰਕਗਣਿਤਿਕ ਲੜੀ ਵਿੱਚ ਹੋਣ, ਤਾਂ  $x$  ਦਾ ਮੁੱਲ \_\_\_\_\_

ਹੈ ।

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 : 70819114208 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 : 70819114208 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ਜੇਕਰ  $x^2 + x + 1 = 0$ , ਤਾਂ  $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$  \_\_\_\_\_ ਹੈ ।

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 : 70819114209 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 :** 70819114209 **Question Type :** SA

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

ਬਿੰਦੂ  $(4, 5)$  ਤੋਂ ਚੱਕਰ  $x^2 + y^2 - 4x - 2y - 11 = 0$  ਉਤੇ ਸਪੱਰਸ਼ ਰੇਖਾਵਾਂ ਖਿੱਚੀਆਂ ਗਈਆਂ ਹਨ ਜੋ ਕਿ ਅਰਧ ਵਿਆਸ ਦੇ ਜੋੜੇ ਨਾਲ ਇੱਕ ਚਤੁਰਭੁੱਜ ਬਣਾਉਂਦੀਆਂ ਹਨ । ਤੱਦ ਚਤੁਰਭੁੱਜ ਦਾ ਖੇਤਰਫਲ (ਵਰਗ ਇਕਾਈਆਂ ਵਿੱਚ) \_\_\_\_\_ ਹੈ ।

**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 :** 70819114210 **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 : 70819114210 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ਜੇਕਰ ਦੋ ਪਦੀ ਵੰਡ ਦੇ ਮੱਧਮਾਨ ਅਤੇ ਪ੍ਰਸਾਰਨ ਦਾ ਜੋੜ 15 ਹੈ ਅਤੇ ਇਹਨਾਂ ਦੇ ਵਰਗਾਂ ਦਾ ਜੋੜ 117 ਹੈ। ਤੱਦ ਸੁਤੰਤਰ ਕੋਸ਼ਿਲਾ (ਟਰਾਇਲਾਂ) ਦੀ ਗਿਣਤੀ \_\_\_\_\_ ਹੈ।

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 : 70819114211 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 : 70819114211 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ਮੰਨ ਲਉ ਇੱਕ ਤਲ ਜਿਸਦਾ ਸਮੀਕਰਨ  $ax + by + cz + d = 0$  ਹੈ, ਜੋ ਕਿ ਬਿੰਦੂ  $(1, 2, 6)$ ,  $(2, 5, 7)$  ਵਿੱਚੋਂ ਲੰਘਦੀ ਹੈ ਅਤੇ ਤਲ  $4x - y + z = 15$  ਨੂੰ ਲੰਭ ਹੈ। ਜੇਕਰ  $a, b, c, d \in \mathbb{Z}$  ਨਾਲ ਮ.ਸ.ਵ  $(|a|, |b|, |c|) = 1$ , ਤੱਦ  $|a + b + c + d|$  ਬਰਾਬਰ \_\_\_\_\_ ਹੈ।

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 :** 70819114212 **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 :** 70819114212 **Question Type :** SA

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

ਅੰਤਰਾਲ  $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$  ਵਿੱਚ ਸਮੀਕਰਨ  $4\sin^2x - 8\sin x + 3 = 0$  ਦੇ ਵਾਸਤਵਿਕ ਹੱਲਾਂ ਦੀ ਗਿਣਤੀ \_\_\_\_\_ ਹੈ।

**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 : 70819114213 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 : 70819114213 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

ਮੰਨ ਲਓ  $A_1, A_2, A_3, \dots$  ਇੱਕ ਵੱਧਦੀ ਜਿਯਾਇਤੀ ਲੜੀ ਹੈ । ਜੇਕਰ  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  ਅਤੇ  $A_5 A_7 = 441$ , ਤਾਂ  $3(A_2 + A_4)$  ਬਰਾਬਰ \_\_\_\_\_ ਹੈ ।

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 :** 708191500  
**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 :** 708191786  
**Question Shuffling Allowed :** Yes

**Question Number : 31 Question Id : 70819114214 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 :**

70819147201. United Nations Educational, Scientific & Cultural Organization.

70819147202. United Nations Educational Security Cultural Organization.

70819147203. United Nations Entrance Site Calling Organization.

70819147204. United Nations Educational, Sustainable & Cultural Organization.

**Question Number : 31 Question Id : 70819114214 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਹੇਠ ਦਿੱਤੇ ਵਿੱਚੋਂ ਕਿਹੜਾ 'UNESCO' (ਯੂਨੈਸਕੋ) ਦਾ ਪੂਰਾ ਫਾਰਮ (Full form) ਕੀ ਹੈ।

**Options :**

70819147201. ਯੂਨਾਈਟਿਡ ਨੇਸ਼ਨਜ਼ ਏਜੂਕੇਸ਼ਨਲ, ਸਾਇੰਟਿਫੀਕ (scientific) ਅਤੇ ਕਲਚਰਲ ਆਰਗੇਨਾਈਜ਼ੇਸ਼ਨ

70819147202. ਯੂਨਾਈਟਿਡ ਨੇਸ਼ਨਜ਼ ਏਜੂਕੇਸ਼ਨਲ ਸੇਕਿਊਰਿਟੀ ਕਲਚਰਲ ਆਰਗੇਨਾਈਜ਼ੇਸ਼ਨ

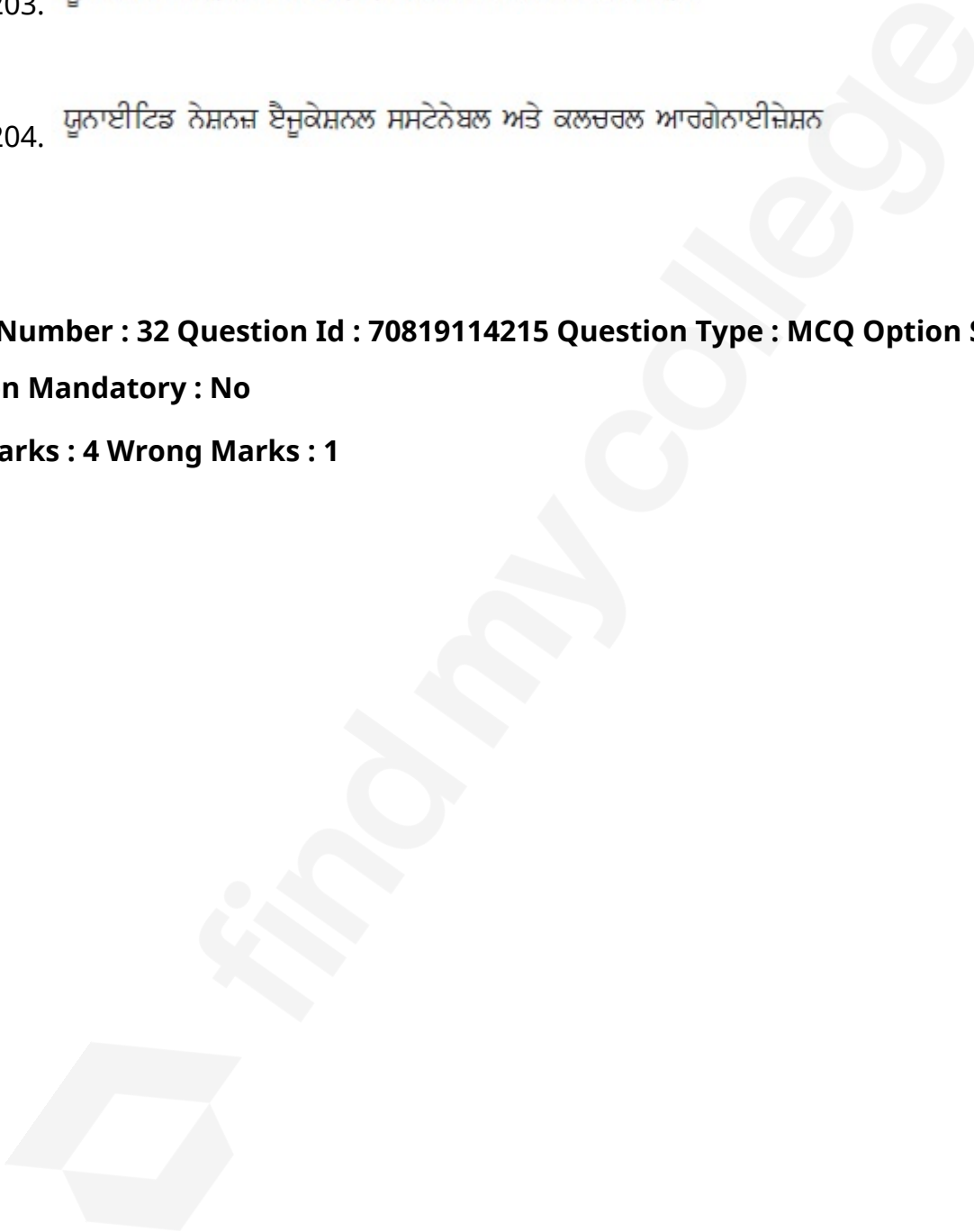
70819147203. ਯੂਨਾਈਟਿਡ ਨੇਸ਼ਨਜ਼ ਏਨਟਰੈਸ ਸਾਈਟ ਕਾਲਿੰਗ ਆਰਗੇਨਾਈਜ਼ੇਸ਼ਨ

70819147204. ਯੂਨਾਈਟਿਡ ਨੇਸ਼ਨਜ਼ ਏਜੂਕੇਸ਼ਨਲ ਸਸਟੇਨੇਬਲ ਅਤੇ ਕਲਚਰਲ ਆਰਗੇਨਾਈਜ਼ੇਸ਼ਨ

**Question Number : 32 Question Id : 70819114215 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



List - I

List - II

(I) Hall of Nation

(a)



(II) Falling Water, Pennsylvania

(b)



(III) Petronas Tower

(c)



(IV) Secretariat

(d)



Options :

70819147205. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819147206. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819147207. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

Question Number : 32 Question Id : 70819114215 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਸੂਚੀ I ਨੂੰ ਸੂਚੀ II ਨਾਲ ਮਿਲਾਣ ਕਰੋ।

ਸੂਚੀ - I

(I) ਹਾਲ ਆਫ ਨੇਸ਼ਨ

(II) ਫਾਲਿੰਗ ਵਾਟਰ, ਪੈਨਸੇਲਵੇਨੀਆ

(III) ਪੈਟ੍ਰੋਨਾਸ ਟਾਵਰ

(IV) ਸੱਤਕਰੇਤ

ਸੂਚੀ - II



Options :

70819147205. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819147206. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819147207. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819147208. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819114216 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 :**

70819147209. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819147210. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819147211. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819147212. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819114216 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਸੂਚੀ I ਨੂੰ ਸੂਚੀ II ਨਾਲ ਮਿਲਾਣ ਕਰੋ।

ਸੂਚੀ - I

ਸੂਚੀ - II

- |                     |                           |
|---------------------|---------------------------|
| (I) ਕਾਮਰੂ           | (a) ਵਿਕਟੋਰੀਆ ਮੈਮੋਰੀਅਲ ਹਾਲ |
| (II) ਦਿੱਲੀ          | (b) ਬਦਰੀਨਾਥ ਮੰਦਿਰ         |
| (III) ਫਤਿਹਪੁਰ ਸੀਕਰੀ | (c) ਖਿਰਕੀ ਮਸਜਿਦ           |
| (IV) ਕੋਲਕਤਾ         | (d) ਬੁਲੰਦ ਦਰਵਾਜ਼ਾ         |

**Options :**

70819147209. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819147210. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819147211. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819147212. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 34 Question Id : 70819114217 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

List - I

List - II

(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



Options :

70819147213. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819147214. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819147215. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819147216. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819114217 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਸੂਚੀ I ਨੂੰ ਸੂਚੀ II ਨਾਲ ਮਿਲਾਣ ਕਰੋ।

ਸੂਚੀ - I

ਸੂਚੀ - II

(I) ਆਗਰਾ ਕਿਲ੍ਹਾ

(a)



(II) ਅਟਾਲਾ ਮਸਜਿਦ

(b)



(III) ਨਲੰਦਾ ਵਿਸ਼ਵ ਵਿਦਿਆਲਯ

(c)



(IV) ਜਗਨਨਾਥ ਮੰਦਿਰ

(d)



Options :

70819147213. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819147214. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819147215. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819147216. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 35 Question Id : 70819114218 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 :**

70819147217. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819147218. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819147219. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819147220. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 35 Question Id : 70819114218 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਸੂਚੀ I ਨੂੰ ਸੂਚੀ II ਨਾਲ ਮਿਲਾਣ ਕਰੋ।

ਸੂਚੀ - I

ਸੂਚੀ - II

- |                     |               |
|---------------------|---------------|
| (I) ਯਾਦਵਿੰਦਰਾ ਗਾਰਡਨ | (a) ਮਨਾਲੀ     |
| (II) ਵਿਸ਼ਨੂ ਮੰਦਿਰ   | (b) ਅੰਮ੍ਰਿਤਸਰ |
| (III) ਹਡਿੰਬਾ ਮੰਦਿਰ  | (c) ਪਿੰਜੋਰ    |
| (IV) ਹਰੀ ਮੰਦਿਰ      | (d) ਬੁਨਿਆਰ    |

**Options :**

70819147217. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819147218. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819147219. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819147220. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 36 Question Id : 70819114219 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 :**

70819147221. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819147222. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819147223. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819147224. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 36 Question Id : 70819114219 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਸੂਚੀ I ਨੂੰ ਸੂਚੀ II ਨਾਲ ਮਿਲਾਣ ਕਰੋ।

ਸੂਚੀ - I

ਸੂਚੀ - II

- |                       |              |
|-----------------------|--------------|
| (I) ਮੇਹਰਾਨਗੜ੍ਹ ਕਿਲ੍ਹਾ | (a) ਹੈਦਰਾਬਾਦ |
| (II) ਸਿਰੀ ਕਿਲ੍ਹਾ      | (b) ਕੋਲਕਤਾ   |
| (III) ਗੋਲਕੋਂਡ ਕਿਲ੍ਹਾ  | (c) ਦਿੱਲੀ    |
| (IV) ਵਿਲਿਆਮ ਦਾ ਕਿਲ੍ਹਾ | (d) ਜੋਧਪੁਰ   |

ਹੇਠ ਦਿੱਤੇ ਵਿਕਲਪਾਂ ਚੋਂ ਸਹੀ ਉੱਤਰ ਲੱਭੋ :

Options :

70819147221. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819147222. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819147223. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819147224. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 37 Question Id : 70819114220 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 :

70819147225. B.V. Doshi

70819147226. Arundhati Roy

70819147227. Revati Kamat

70819147228. Bimal Patel

**Question Number : 37 Question Id : 70819114220 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਕਿਤਾਬ 'ਗੋਡ ਆਫ਼ ਸਮਾਲ ਬਿੰਗਜ਼' ਕਿਹੜੇ ਭਾਰਤ ਦੇ ਆਰਕੀਟੈਕਟ ਦਵਾਰਾ ਲਿਖੀ ਗਈ ਹੈ ?

**Options :**

70819147225. ਬੀ.ਵੀ. ਦੋਸ਼ੀ

70819147226. ਅਰੁਨਧਤੀ ਰਾਏ

70819147227. ਰੇਵਤੀ ਕਾਮਤ

70819147228. ਬਿਮਲ ਪਟੇਲ

**Question Number : 38 Question Id : 70819114221 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 :**

70819147229. Gujarat

70819147230. West Bengal

70819147231. Tamil Nadu

70819147232. Rajasthan

**Question Number : 38 Question Id : 70819114221 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘ਝਰੋਖਾ’ ਜੋ ਇੱਕ ਕਿਸਮ ਦੀ ਖਿੜਕੀ ਹੈ, ਇੰਨਾਂ ਵਿੱਚੋਂ ਕਿਸ ਰਾਜ ਵਿੱਚ ਜ਼ਿਆਦਾ ਪਾਈ ਜਾਂਦੀ ਹੈ ?

**Options :**

70819147229. ਗੁਜਰਾਤ

70819147230. ਪੱਛਮੀ ਬੰਗਾਲ

70819147231. ਤਾਮਿਲਨਾਡੂ

70819147232. ਰਾਜਸਥਾਨ

**Question Number : 39 Question Id : 70819114222 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 :**

70819147233. North-West side

70819147234. South-East side

70819147235. North side

70819147236. South-West side

Question Number : 39 Question Id : 70819114222 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਮਾਨਸੂਨ ਹਵਾ ਕਿਹੜੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਭਾਰਤ ਉਪ ਸਹਾਂਦੀਪ ਵਿੱਚ ਪ੍ਰਵੇਸ਼ ਕਰਦੀ ਹੈ ?

Options :

70819147233. ਉੱਤਰ-ਪੱਛਮ ਵਾਲੇ ਪਾਸੇ

70819147234. ਦੱਖਣ-ਪੂਰਬ ਵਾਲੇ ਪਾਸੇ

70819147235. ਉੱਤਰ ਵਾਲੇ ਪਾਸੇ

70819147236. ਦੱਖਣ-ਪੱਛਮ ਵਾਲੇ ਪਾਸੇ

Question Number : 40 Question Id : 70819114223 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 :

70819147237. Bharat Bhavan in Bhopal

70819147238. LIC Building in Delhi

70819147239. Charminar in Hyderabad

70819147240. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819114223 Question Type : MCQ Option Shuffling : Yes

**Is Question Mandatory : No**

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

ਹੇਠ ਦਿੱਤੇ ਵਿੱਚੋਂ ਕਿਹੜੀ ਇਮਾਰਤ 'ਬਸਤੀਵਾਦੀ (ਕਲੋਨੀਅਲ) ਆਰਕੀਟੈਕਚਰ' ਢੰਗ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦੀ ਹੈ ?

**Options :**

70819147237. ਭਾਰਤ ਭਵਨ -ਭੋਪਾਲ

70819147238. ਐਲ.ਆਈ.ਸੀ. ਇਮਾਰਤ -ਦਿੱਲੀ

70819147239. ਚਾਰ ਮਿਨਾਰ -ਹੈਦਰਾਬਾਦ

70819147240. ਵਿਕਟੋਰੀਆ ਮੈਮੋਰਿਅਲ -ਕੋਲਕਤਾ

**Question Number : 41 Question Id : 70819114224 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 :**

70819147241.  $420 \times 590$  (mm  $\times$  mm)

70819147242.  $420 \times 594$  (mm  $\times$  mm)

70819147243.  $297 \times 420$  (mm  $\times$  mm)

70819147244.  $420 \times 592$  (mm  $\times$  mm)

**Question Number : 41 Question Id : 70819114224 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

A2 ਡਰਾਈਂਗ ਸੀਟ ਦਾ ਕੀ ਮਾਪ ਹੰਦਾ ਹੈ (mm= ਮੀਲੀਮੀਟਰ) ?

**Options :**

70819147241.  $420 \times 590$  (mm  $\times$  mm)

70819147242.  $420 \times 594$  (mm  $\times$  mm)

70819147243.  $297 \times 420$  (mm  $\times$  mm)

70819147244.  $420 \times 592$  (mm  $\times$  mm)

**Question Number : 42 Question Id : 70819114225 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 :**

70819147245. Chittor fort

70819147246. Jaigarh fort

70819147247. Bhangarh fort

70819147248. Amer fort

**Question Number : 42 Question Id : 70819114225 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘ਵਿਕਟਰੀ ਟਾਵਰ’ ਕਿਹੜੇ ਹੇਠ ਲਿਖੇ ਕਿਲ੍ਹੇ ਨਾਲ ਸਬੰਧਤ ਹੈ ?

**Options :**

70819147245. ਚਿੱਤੌੜ ਦਾ ਕਿਲ੍ਹਾ

70819147246. ਜੈਗੜ੍ਹ ਦਾ ਕਿਲ੍ਹਾ

70819147247. ਭਾਨਗੜ੍ਹ ਦਾ ਕਿਲ੍ਹਾ

70819147248. ਆਮੇਰ ਦਾ ਕਿਲ੍ਹਾ

**Question Number : 43 Question Id : 70819114226 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 :**

70819147249. Sanjay Puri

70819147250. Vikram Lall

70819147251. Ashok Lall

70819147252. C. Sompura

**Question Number : 43 Question Id : 70819114226 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਇੰਨਾਂ ਵਿੱਚੋਂ ਕਿਹੜੇ ਆਰਕੀਟੈਕਟ ਨੇ ਮਸ਼ਹੂਰ ਮੰਦਿਰ "ਅਕਸ਼ਰਧਾਮ" ਡਿਜ਼ਾਇਨ ਕੀਤਾ ਹੈ ?

**Options :**

70819147249. ਸੰਜੇ ਪੁਰੀ

70819147250. ਵਿਕਰਮ ਲਾਲ

70819147251. ਅਸ਼ੋਕ ਲਾਲ

70819147252. ਸੀ. ਸੋਮਪੁਰਾ

**Question Number : 44 Question Id : 70819114227 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'Volume Zero' Documentary is on which Architect ?

**Options :**

70819147253. Charles Correa

70819147254. Richard Mier

70819147255. Jasbir Sachdev

70819147256. Ranjit Sabliki

**Question Number : 44 Question Id : 70819114227 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'ਵਾਲੀਆਮ ਜ਼ੀਰੋ' ਦਸਤਾਵੇਜ਼ੀ ਕਿਹੜੇ ਆਰਕੀਟੈਕਟ ਦੇ ਬਾਰੇ ਹੈ :

**Options :**

70819147253. ਚਾਰਲਸ ਕੋਰੀਆ

70819147254. ਰਿਚਰਡ ਮੀਅਰ

70819147255. ਜਸਬੀਰ ਸਚਦੇਵ

70819147256. ਰਨਜੀਤ ਸਭਲੀਕੀ

**Question Number : 45 Question Id : 70819114228 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'Agenda 21' is declaration related with :

**Options :**

70819147257. Climate change

70819147258. Global warming

70819147259. Sustainable development

70819147260. Smart city

**Question Number : 45 Question Id : 70819114228 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

'ਏਜੰਡਾ 21 ਦੀ' ਘੋਸ਼ਣਾ ਕਿਸ ਨਾਲ ਸਬੰਧਤ ਹੈ ?

**Options :**

70819147257. ਮੌਸਮ ਤਬਦੀਲੀ

70819147258. ਗਲੋਬਲ ਵਾਰਮਿੰਗ

70819147259. ਸਸਟੇਨਬਲ ਵਿਕਾਸ

**Question Number : 46 Question Id : 70819114229 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 :**

70819147261. Karnataka

70819147262. Orissa

70819147263. Maharashtra

70819147264. Uttar Pradesh

**Question Number : 46 Question Id : 70819114229 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਸੋਨੇ ਦੀਆਂ ਖਾਣਾਂ, ਭਾਰਤ ਦੇ ਕਿਹੜੇ ਰਾਜ ਵਿੱਚ ਸਥਿਤ ਹਨ ?

**Options :**

70819147261. ਕਰਨਾਟਕਾ

70819147262. ਉੜੀਸਾ

70819147263. ਮਹਾਰਾਸ਼ਟਰਾ

70819147264. ਉੱਤਰ ਪ੍ਰਦੇਸ਼

Question Number : 47 Question Id : 70819114230 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 :

70819147265. North

70819147266. South

70819147267. East

70819147268. West

Question Number : 47 Question Id : 70819114230 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਦੱਖਣੀ ਗੋਲਾਕ ਵਿੱਚ ਪਰਛਾਵਾਂ ਰਹਿਤ ਰੋਸ਼ਨੀ ਕਿਹੜੀ ਦਿਸ਼ਾ ਤੋਂ ਆਉਂਦੀ ਹੈ ?

Options :

70819147265. ਉੱਤਰ

70819147266. ਦੱਖਣ

70819147267. ਪੂਰਬ

70819147268. ਪੱਛਮ

Question Number : 48 Question Id : 70819114231 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 :**

70819147269. B.V. Doshi

70819147270. Laurie Baker

70819147271. Raj Rewal

70819147272. Achyut Kanvinde

**Question Number : 48 Question Id : 70819114231 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਕਿਹੜਾ ਪਹਿਲਾ ਭਾਰਤੀ ਆਰਕੀਟੈਕਟ ਜਿਸਨੂੰ ਪ੍ਰਿਟਜ਼ਕਰ ਪੁਰਸਕਾਰ 2018 ਵਿੱਚ ਜਿੱਤਿਆ ।

**Options :**

70819147269. ਬੀ.ਵੀ. ਦੋਸ਼ੀ

70819147270. ਲੌਰੀ ਬੇਕਰ

70819147271. ਰਾਜ ਰੇਵਾਲ

70819147272. ਅਚਿਊਤ ਕਨਵਿੰਦੇ

**Question Number : 49 Question Id : 70819114232 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Word "Bungalow" has originated from :

**Options :**

70819147273. Bengalurm

70819147274. Banaras

70819147275. Bengal

70819147276. Bari

**Question Number : 49 Question Id : 70819114232 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਸ਼ਬਦ "ਬੰਗਲੋ" ਦੀ ਸ਼ੁਰੂਆਤ ਕਿੱਥੋਂ ਹੋਈ ?

**Options :**

70819147273. ਬੈਂਗਲੁਰੁਮ

70819147274. ਬਨਾਰਸ

70819147275. ਬੰਗਾਲ

70819147276. ਬਾਰੀ

**Question Number : 50 Question Id : 70819114233 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 :**

70819147277. Laurie Baker

70819147278. Louis Kahn

70819147279. Lutyen

70819147280. Le Corbusier

**Question Number : 50 Question Id : 70819114233 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

‘ਆਈ ਆਈ ਐਮ’ ਅਹਿਮਦਾਬਾਦ ਹੇਠ ਲਿੱਖੇ ਕਿਹੜੇ ਆਰਕੀਟੈਕਟ ਨੇ ਡਿਜ਼ਾਇਨ ਕੀਤਾ ਹੈ ?

**Options :**

70819147277. ਲੌਰੀ ਬੇਕਰ

70819147278. ਲੁਈ ਕਾਨ

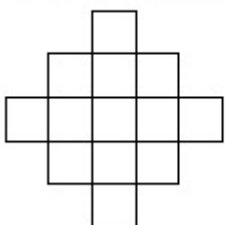
70819147279. ਲਊਟੇਨ

70819147280. ਲੀ-ਕੌਰਬੁਜ਼ੀਅਰ

**Question Number : 51 Question Id : 70819114234 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 :**

70819147281. 14

70819147282. 13

70819147283. 15

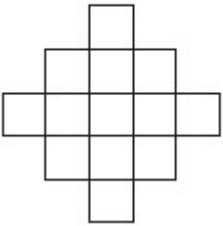
70819147284. 18

**Question Number : 51 Question Id : 70819114234 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਦਿੱਤੇ ਗਏ ਚਿੱਤਰ ਵਿੱਚ, ਕੁੱਲ ਕਿੰਨੇ ਵਰਗ ਮੌਜੂਦ ਨੇ ?



**Options :**

70819147281. 14

70819147282. 13

70819147283. 15

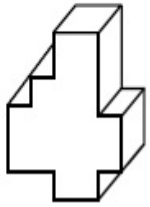
70819147284. 18

**Question Number : 52 Question Id : 70819114235 Question Type : MCQ Option Shuffling : Yes**

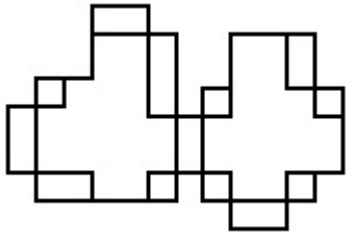
**Is Question Mandatory : No**

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

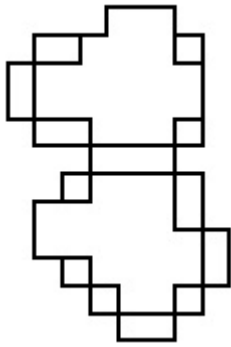
A drawing is provided with all the folds to construct the following three Dimensional object.  
Select the correct one.



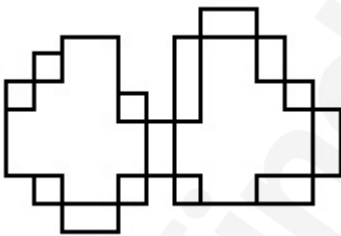
Options :



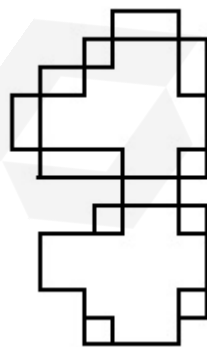
70819147285.



70819147286.



70819147287.



70819147288.

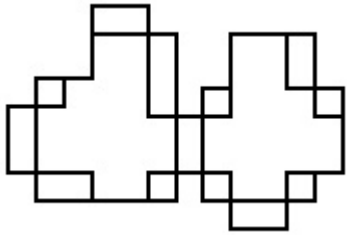
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

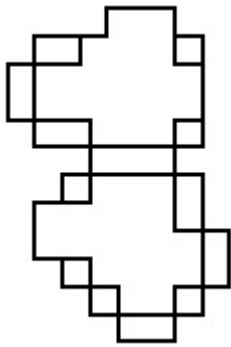
ਡਰਾਇੰਗ ਸਾਰੇ ਫੇਲਡਾਂ ਦੇ ਨਾਲ ਦਿੱਤੀ ਗਈ ਹੈ ਜਿੰਨ੍ਹਾਂ ਨਾਲ ਹੇਠ ਦਿੱਤੀ ਤਿੰਨ ਅਯਾਮੀ 3-ਡੀ ਵਸਤੂ ਦਾ ਨਿਰਮਾਣ ਕੀਤਾ ਹੈ । ਸਹੀ ਉੱਤਰ ਚੁਣੋ ।



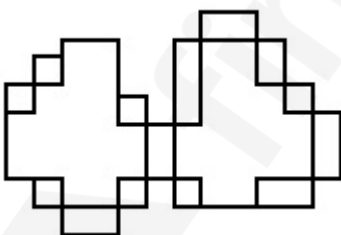
Options :



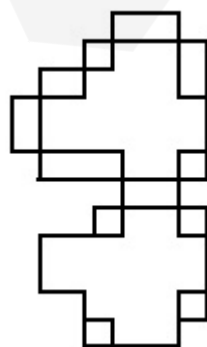
70819147285.



70819147286.



70819147287.



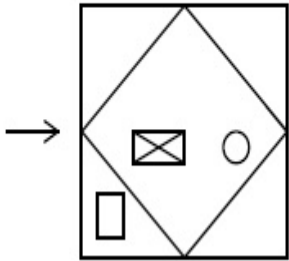
70819147288.

Question Number : 53 Question Id : 70819114236 Question Type : MCQ Option Shuffling : Yes

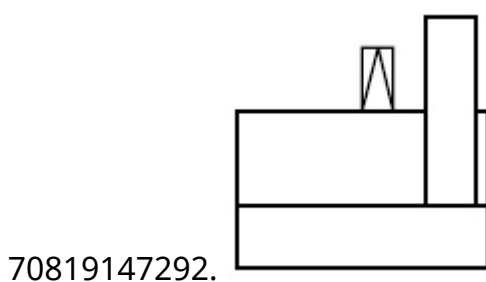
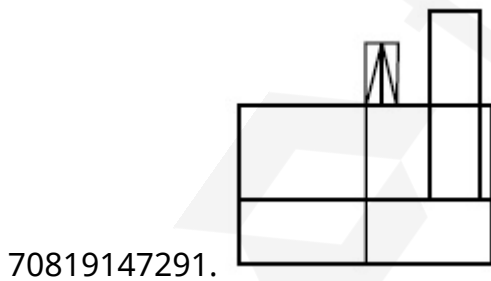
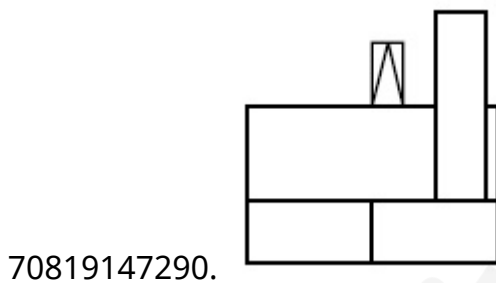
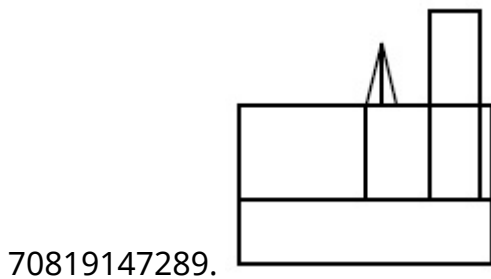
Is Question Mandatory : No

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.



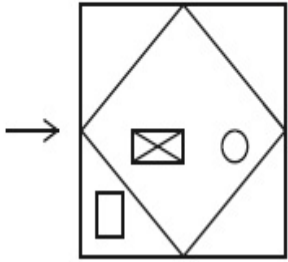
Options :



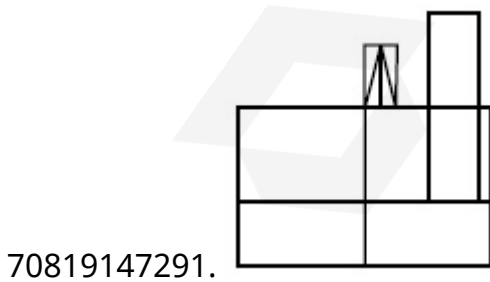
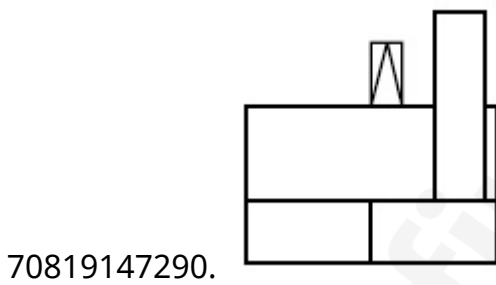
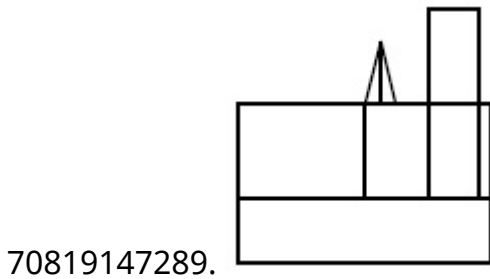
Question Number : 53 Question Id : 70819114236 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

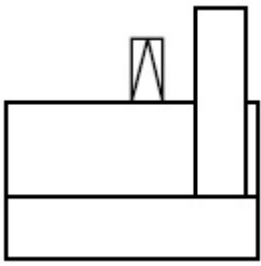
ਸਵਾਲ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾ ਵਿੱਚੋਂ ਪਛਾਣੋ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਵੇਖਿਆ ਜਾਵੇਗਾ।



Options :



70819147292.

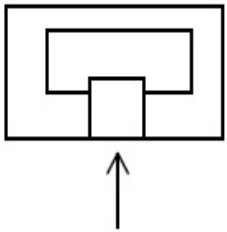


Question Number : 54 Question Id : 70819114237 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

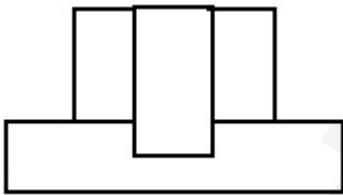
Correct Marks : 4 Wrong Marks : 1

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

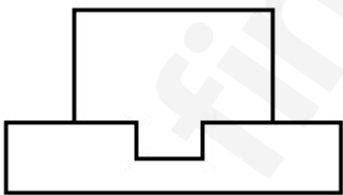


Options :

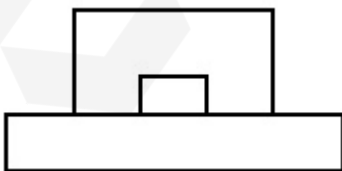
70819147293.



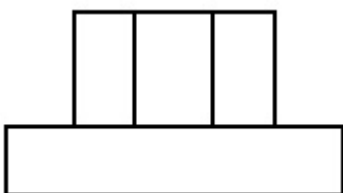
70819147294.



70819147295.



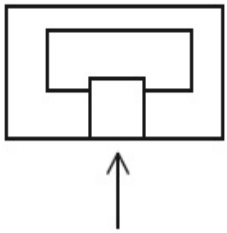
70819147296.



**Question Number : 54 Question Id : 70819114237 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

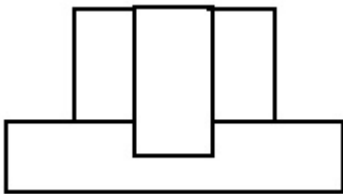
**Correct Marks : 4 Wrong Marks : 1**

ਸਵਾਲ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿੱਚੋਂ ਪਛਾਣੋ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ ਇਸ ਵਸਤੂ ਦਾ ਸਾਹਮਣੇ ਦਾ ਦ੍ਰਿਸ਼(ਐਲੀਵੇਸ਼ਨ) ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ ।

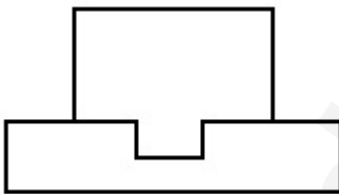


**Options :**

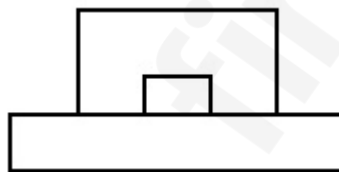
70819147293.



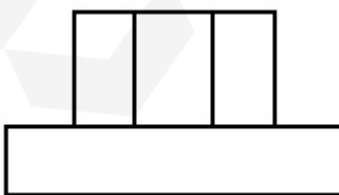
70819147294.



70819147295.



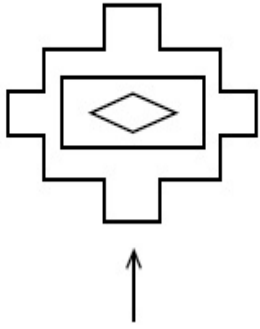
70819147296.



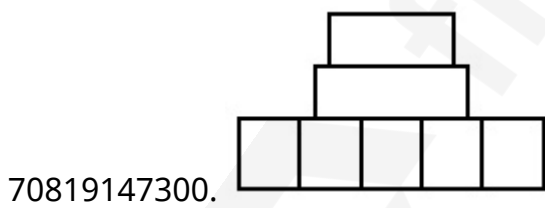
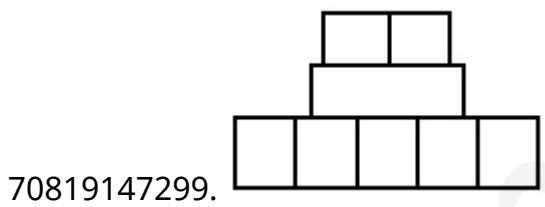
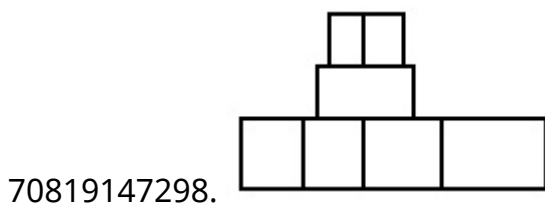
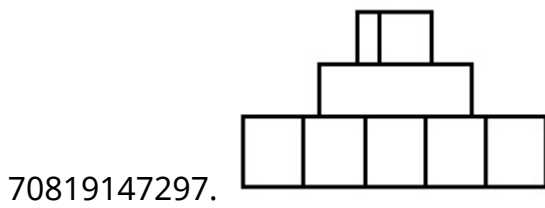
**Question Number : 55 Question Id : 70819114238 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

**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 :**

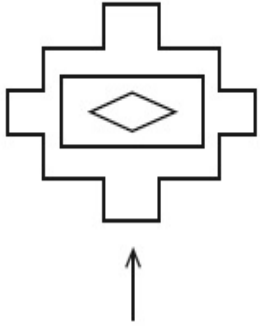


**Question Number : 55 Question Id : 70819114238 Question Type : MCQ Option Shuffling : Yes**

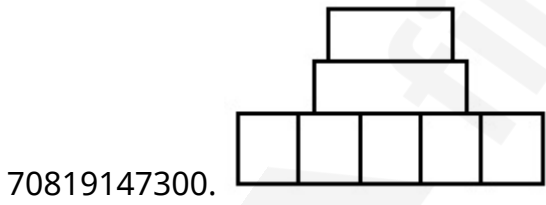
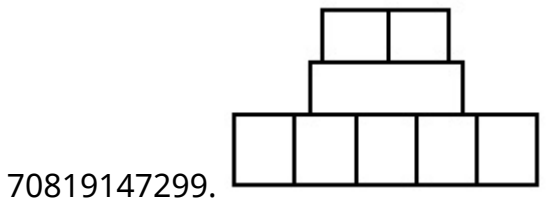
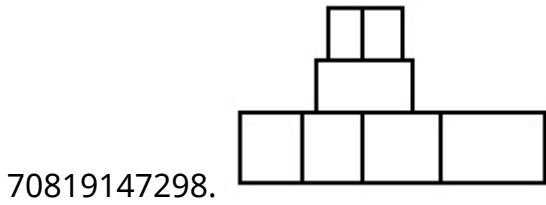
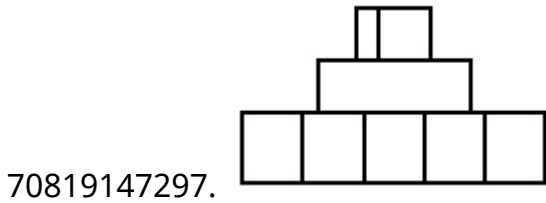
**Is Question Mandatory : No**

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

ਸਵਾਲ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿੱਚੋਂ ਪਛਾਣੋ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ ਇਸ ਵਸਤੂ ਦਾ ਸਮੱਤਲ ਦਾ ਦ੍ਰਿਸ਼(ਐਲੀਵੇਸ਼ਨ) ਦਿਖਾਉਂਦਾ ਹੈ, ਜੋ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ ।



Options :

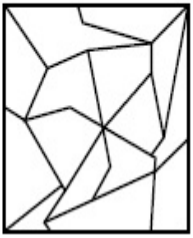


Question Number : 56 Question Id : 70819114239 Question Type : MCQ Option Shuffling : Yes


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 :

70819147301. 

70819147302. 

70819147303. 

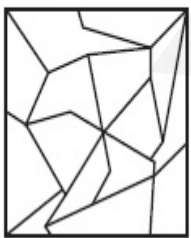
70819147304. 

Question Number : 56 Question Id : 70819114239 Question Type : MCQ Option Shuffling : Yes


Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਹੇਠ ਦਿੱਤੇ ਜਵਾਬ ਚਿੱਤਰਾਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ ਸਵਾਲ ਚਿੱਤਰ ਵਿੱਚ ਲੁਕਿਆ ਹੋਇਆ ਹੈ, ਉਸੇ ਮਾਪ ਅਤੇ ਉਸੇ ਦਿਸ਼ਾ ਵਿੱਚ। ਸਹੀ ਜਵਾਬ ਚੁਣੋ ।



Options :

70819147301. 

70819147302.



70819147303.



70819147304.

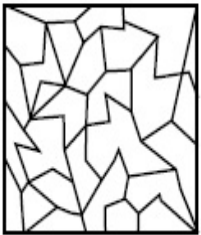


**Question Number : 57 Question Id : 70819114240 Question Type : MCQ Option Shuffling : Yes**

**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 :**

70819147305.



70819147306.



70819147307.



70819147308.

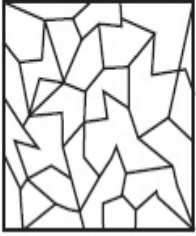


Question Number : 57 Question Id : 70819114240 Question Type : MCQ Option Shuffling : Yes


Is Question Mandatory : No


Correct Marks : 4 Wrong Marks : 1


ਹੇਠ ਦਿੱਤੇ ਜਵਾਬ ਚਿੱਤਰਾਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ ਸਵਾਲ ਚਿੱਤਰ ਵਿੱਚ ਲੁਕਿਆ ਹੋਇਆ ਹੈ, ਉਸੇ ਮਾਪ ਅਤੇ ਉਸੇ ਦਿਸ਼ਾ ਵਿੱਚ। ਸਹੀ ਜਵਾਬ ਚੁਣੋ ।




Options :

70819147305. 

70819147306. 

70819147307. 

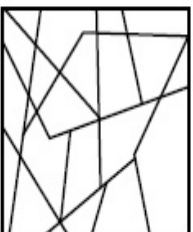
70819147308. 

Question Number : 58 Question Id : 70819114241 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 :

70819147309.



70819147310.



70819147311.



70819147312.

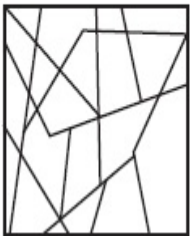


**Question Number : 58 Question Id : 70819114241 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

ਹੇਠ ਦਿੱਤੇ ਜਵਾਬ ਚਿੱਤਰਾਂ ਵਿਚੋਂ ਕੋਈ ਇੱਕ ਸਵਾਲ ਚਿੱਤਰ ਵਿੱਚ ਲੁਕਿਆ ਹੋਇਆ ਹੈ, ਉਸੇ ਮਾਪ ਅਤੇ ਉਸੇ ਦਿਸ਼ਾ ਵਿੱਚ। ਸਹੀ ਜਵਾਬ ਚੁਣੋ।



**Options :**

70819147309.



70819147310.



70819147311.



70819147312.

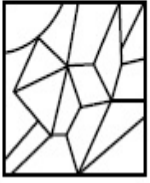


Question Number : 59 Question Id : 70819114242 Question Type : MCQ Option Shuffling : Yes


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 :

70819147313. 

70819147314. 

70819147315. 

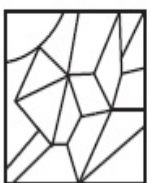
70819147316. 

Question Number : 59 Question Id : 70819114242 Question Type : MCQ Option Shuffling : Yes


Is Question Mandatory : No


Correct Marks : 4 Wrong Marks : 1


ਹੇਠ ਦਿੱਤੇ ਜਵਾਬ ਚਿੱਤਰਾਂ ਵਿੱਚੋਂ ਕੋਈ ਇੱਕ ਸਵਾਲ ਚਿੱਤਰ ਵਿੱਚ ਲੁਕਿਆ ਹੋਇਆ ਹੈ, ਉਸੇ ਮਾਪ ਅਤੇ ਉਸੇ ਦਿਸ਼ਾ ਵਿੱਚ। ਸਹੀ ਜਵਾਬ ਚੁਣੋ ।




Options :

70819147313. 

70819147314. 

70819147315. 

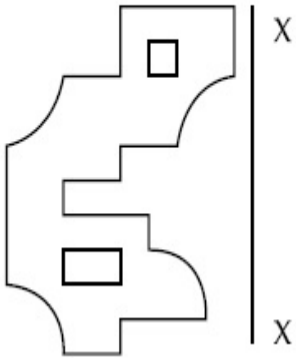
70819147316. 

**Question Number : 60 Question Id : 70819114243 Question Type : MCQ Option Shuffling : Yes**

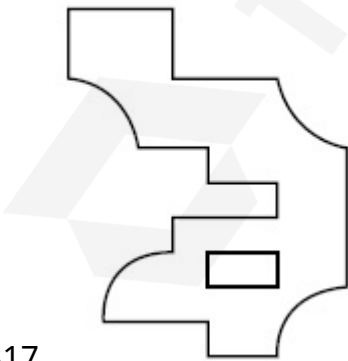
**Is Question Mandatory : No**

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

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

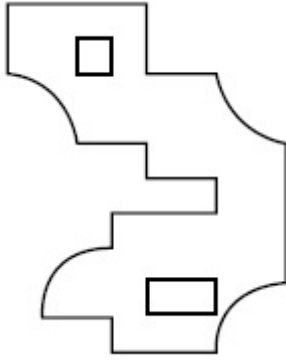
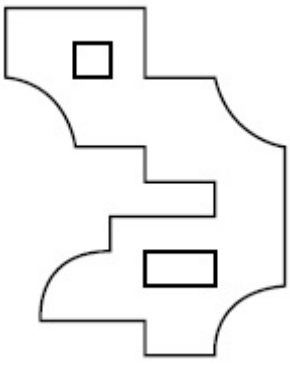


**Options :**

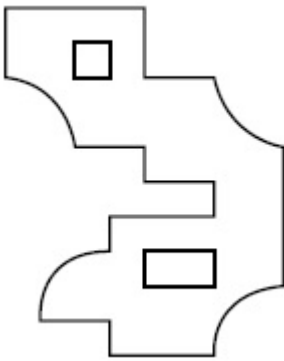


70819147317.

70819147318.



70819147319.



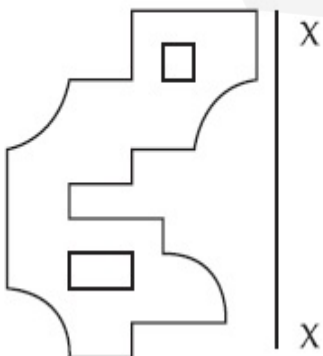
70819147320.

**Question Number : 60 Question Id : 70819114243 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

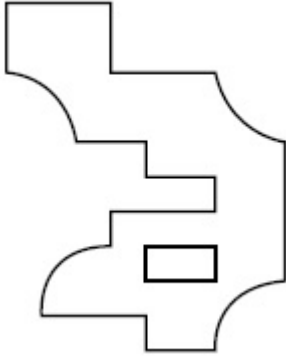
**Correct Marks : 4 Wrong Marks : 1**

ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਪ੍ਰਸ਼ਨ ਚਿੱਤਰ ਦਾ ਸਹੀ ਸ਼ੀਸ਼ੇ ਵਿੱਚ ਦਿਖ ਰਿਹਾ ਚਿੱਤਰ (ਪ੍ਰਤੀਬਿੰਬ) ਹੈ, X-X ਦੇ ਆਧਾਰ ਤੇ ?

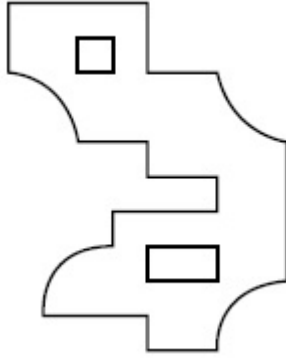


Options :

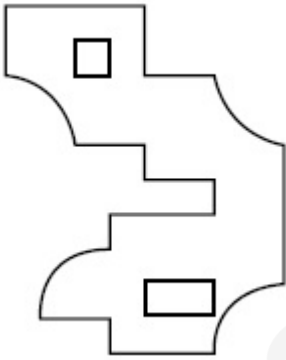
70819147317.



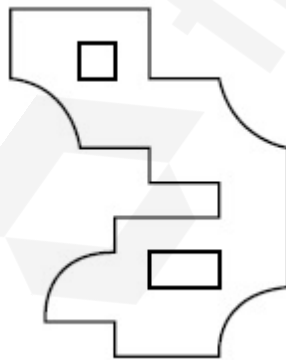
70819147318.



70819147319.

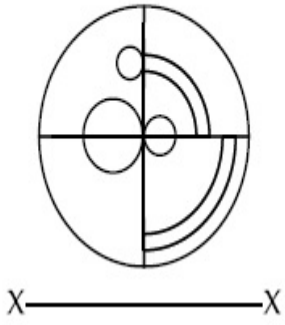


70819147320.

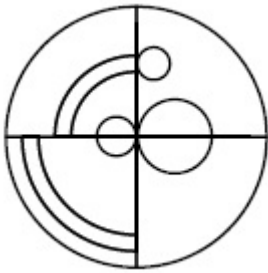


Correct Marks : 4 Wrong Marks : 1

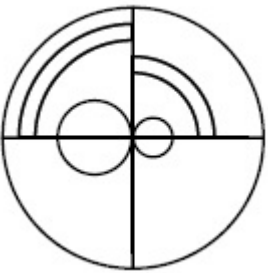
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



Options :



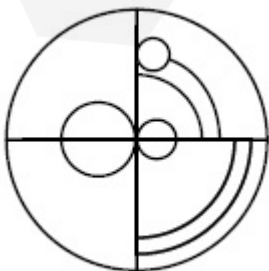
70819147321.



70819147322.



70819147323.



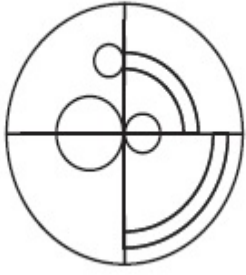
70819147324.

Question Number : 61 Question Id : 70819114244 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

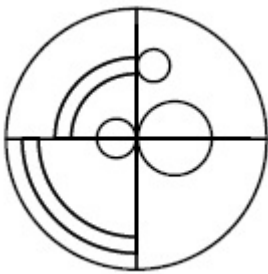
Correct Marks : 4 Wrong Marks : 1

ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਪ੍ਰਸ਼ਨ ਚਿੱਤਰ ਦਾ ਸਹੀ ਸ਼ੀਸ਼ੇ ਵਿੱਚ ਦਿਖ ਰਿਹਾ ਚਿੱਤਰ (ਪ੍ਰਤੀਬਿੰਬ) ਹੈ, X-X ਦੇ ਆਧਾਰ ਤੇ ?

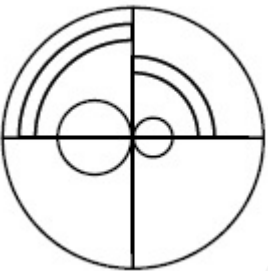


X ————— X

Options :



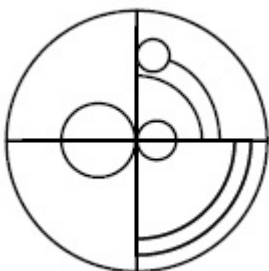
70819147321.



70819147322.



70819147323.

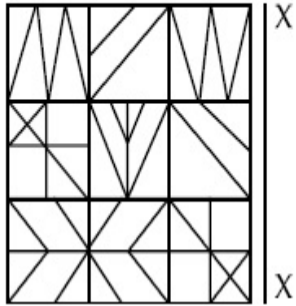


70819147324.

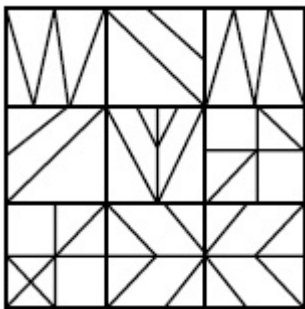
Question Number : 62 Question Id : 70819114245 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

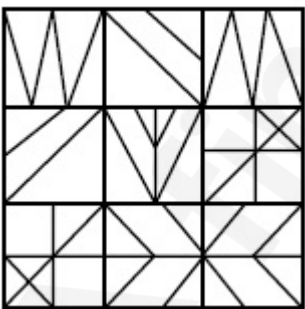
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



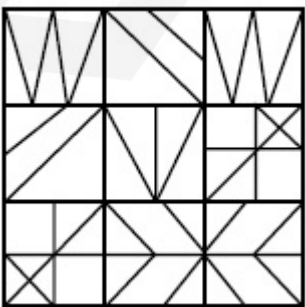
Options :



70819147325.

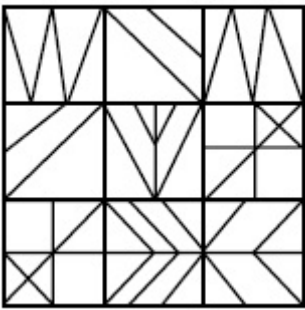


70819147326.



70819147327.

70819147328.

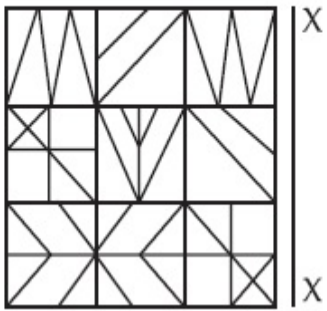


Question Number : 62 Question Id : 70819114245 Question Type : MCQ Option Shuffling : Yes

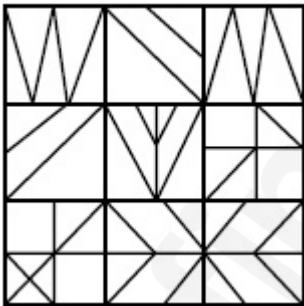
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

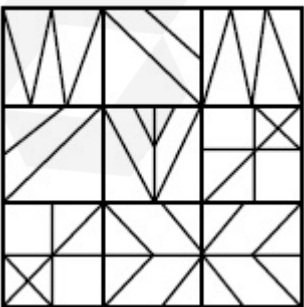
ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਪ੍ਰਸ਼ਨ ਚਿੱਤਰ ਦਾ ਸਹੀ ਸ਼ੀਸ਼ੇ ਵਿੱਚ ਦਿਖ ਰਿਹਾ ਚਿੱਤਰ (ਪ੍ਰਤੀਬਿੰਬ) ਹੈ, X-X ਦੇ ਆਧਾਰ ਤੇ ?



Options :

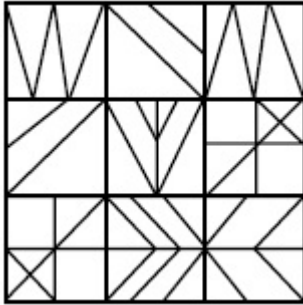
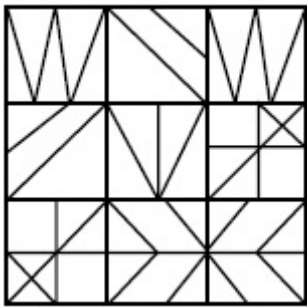


70819147325.



70819147326.

70819147327.



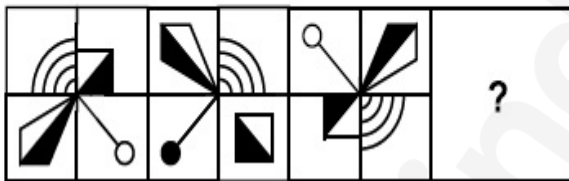
70819147328.

Question Number : 63 Question Id : 70819114246 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 :



70819147329.



70819147330.

70819147331.



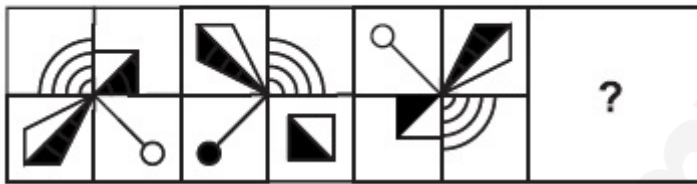
70819147332.

Question Number : 63 Question Id : 70819114246 Question Type : MCQ Option Shuffling : Yes

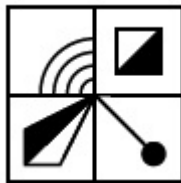
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਸਵਾਲ ਚਿੱਤਰ ਦੇ ਕ੍ਰਮ ਨੂੰ ਪੂਰਾ ਕਰੇਗਾ? ਸਹੀ ਜਵਾਬ ਚੁਣੋ।



Options :



70819147329.



70819147330.



70819147331.

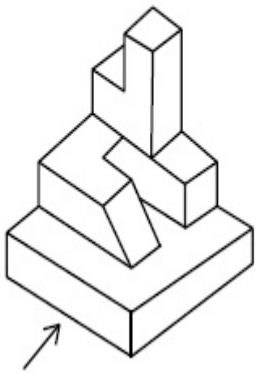
70819147332.



Question Number : 64 Question Id : 70819114247 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

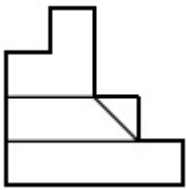
Correct Marks : 4 Wrong Marks : 1

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



Options :

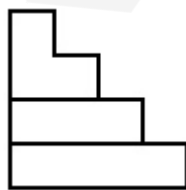
70819147333.



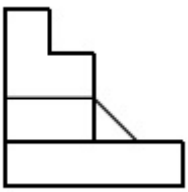
70819147334.



70819147335.



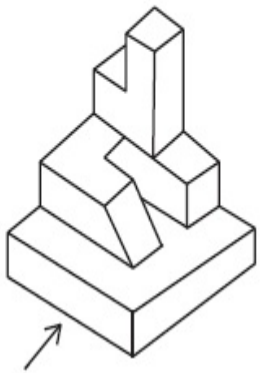
70819147336.



**Question Number : 64 Question Id : 70819114247 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

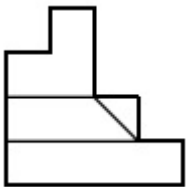
**Correct Marks : 4 Wrong Marks : 1**

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



**Options :**

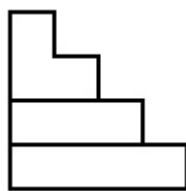
70819147333.



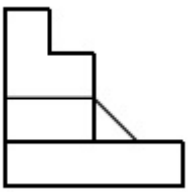
70819147334.



70819147335.



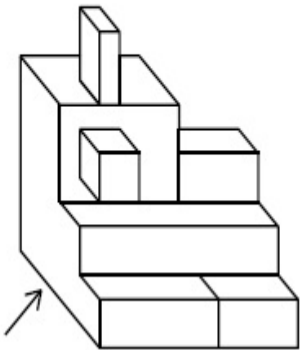
70819147336.



Question Number : 65 Question Id : 70819114248 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

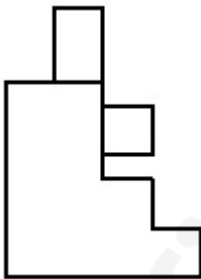
Correct Marks : 4 Wrong Marks : 1

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

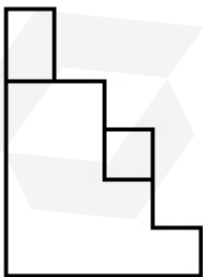


Options :

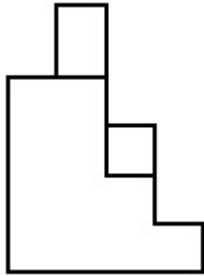
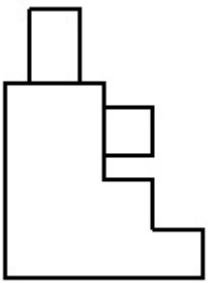
70819147337.



70819147338.



70819147339.



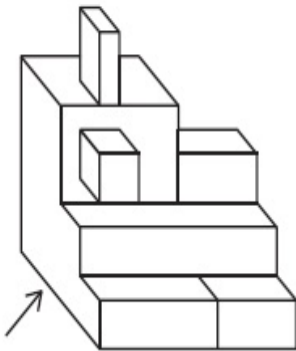
70819147340.

**Question Number : 65 Question Id : 70819114248 Question Type : MCQ Option Shuffling : Yes**

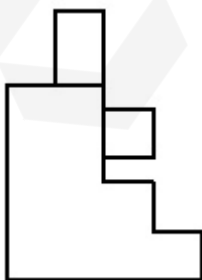
**Is Question Mandatory : No**

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

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।

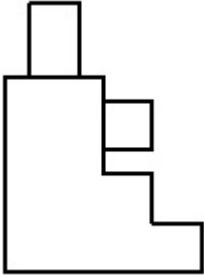
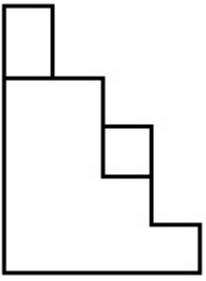


**Options :**

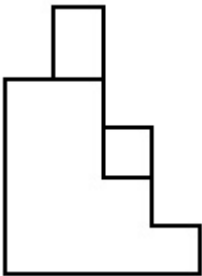


70819147337.

70819147338.



70819147339.

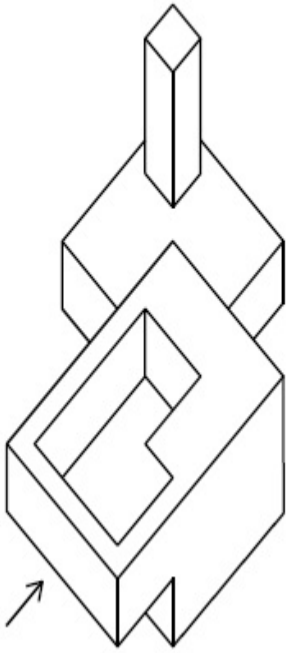


70819147340.

**Question Number : 66 Question Id : 70819114249 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

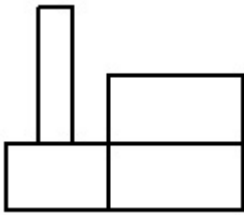


The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

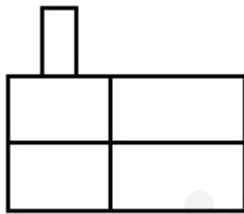


Options :

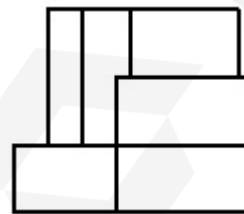
70819147341.



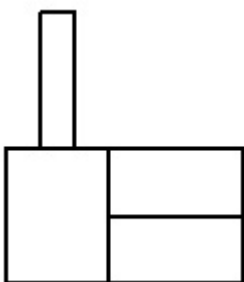
70819147342.



70819147343.



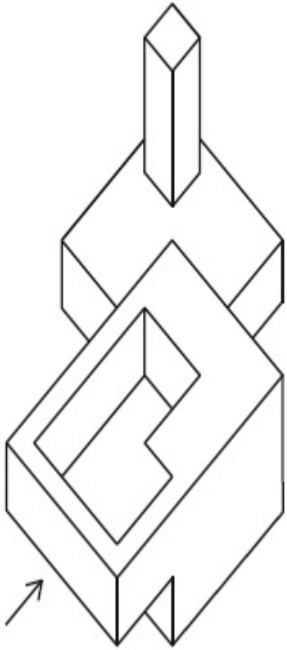
70819147344.



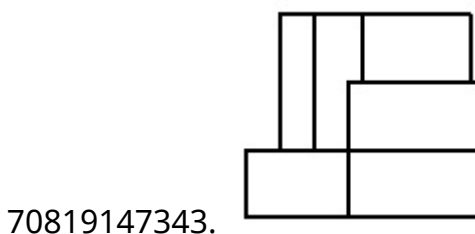
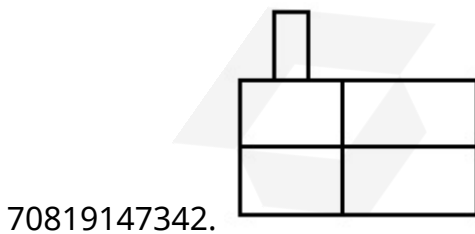
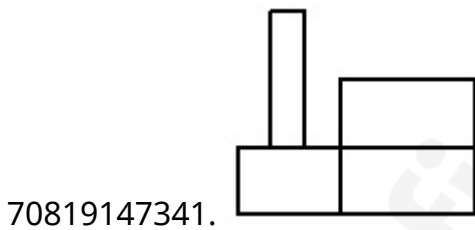
Question Number : 66 Question Id : 70819114249 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

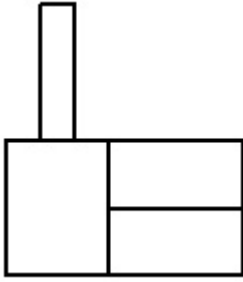
3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



Options :



70819147344.

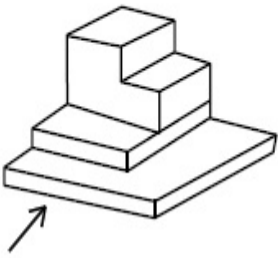


Question Number : 67 Question Id : 70819114250 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

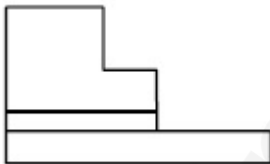
Correct Marks : 4 Wrong Marks : 1

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



Options :

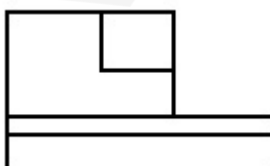
70819147345.



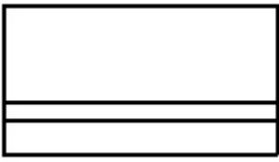
70819147346.



70819147347.



70819147348.

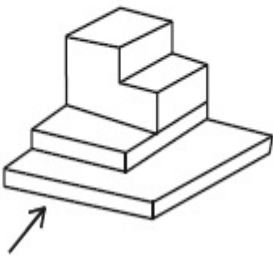


Question Number : 67 Question Id : 70819114250 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

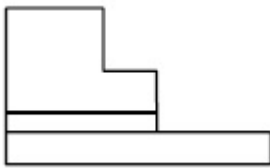
Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



Options :

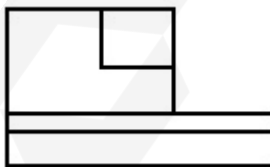
70819147345.



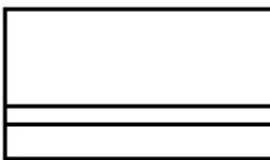
70819147346.



70819147347.



70819147348.

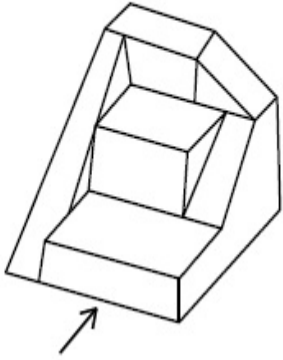


Question Number : 68 Question Id : 70819114251 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

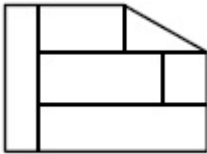
Correct Marks : 4 Wrong Marks : 1

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

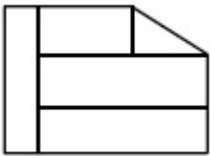


Options :

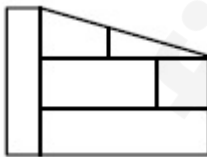
70819147349.



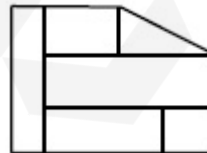
70819147350.



70819147351.



70819147352.

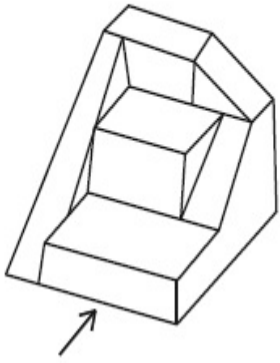


Question Number : 68 Question Id : 70819114251 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

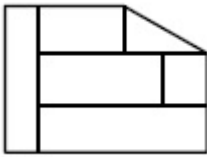
Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।

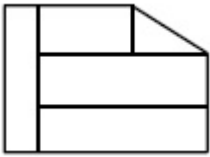


Options :

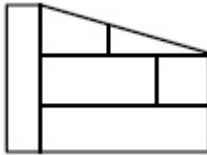
70819147349.



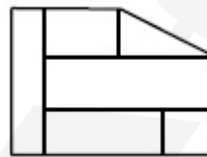
70819147350.



70819147351.



70819147352.

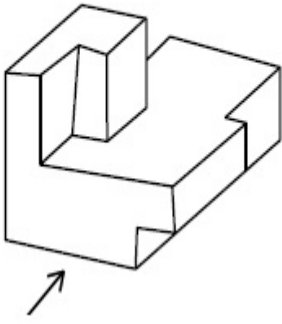


Question Number : 69 Question Id : 70819114252 Question Type : MCQ Option Shuffling : Yes

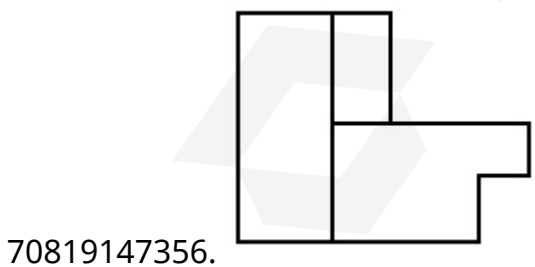
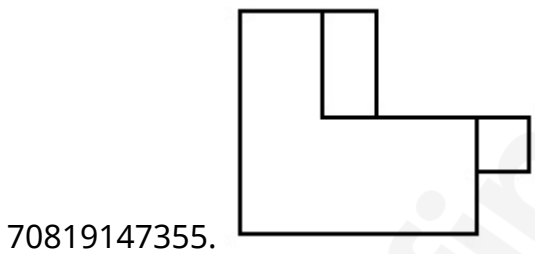
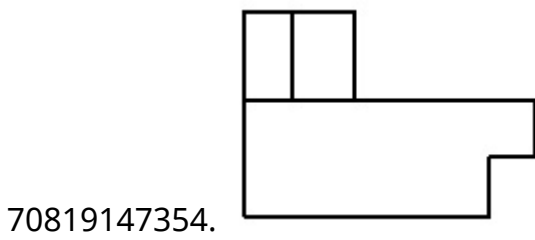
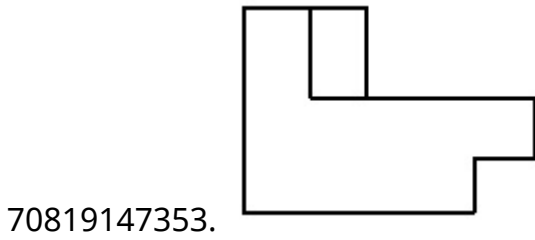
Is Question Mandatory : No

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 :

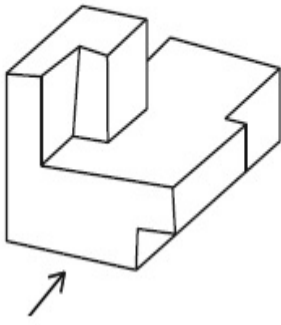


Question Number : 69 Question Id : 70819114252 Question Type : MCQ Option Shuffling : Yes

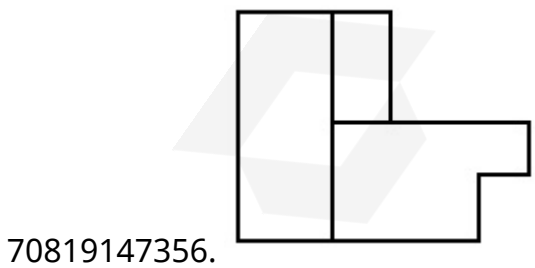
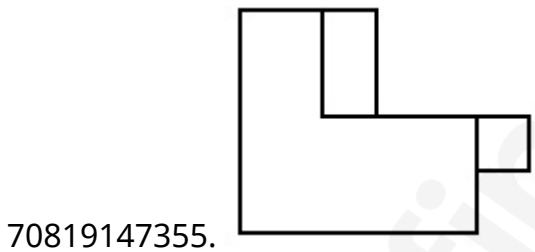
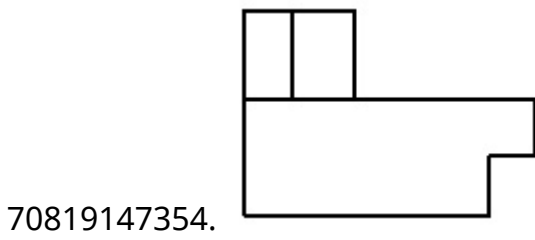
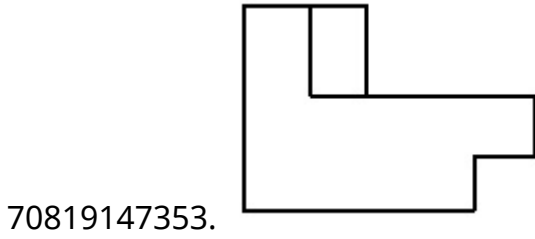
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ, ਜਿਸਦਾ ਚਿੱਤਰ ਹੇਠਾਂ ਦਿੱਤੇ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।

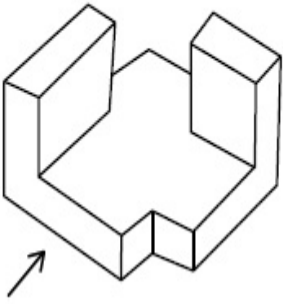


Options :

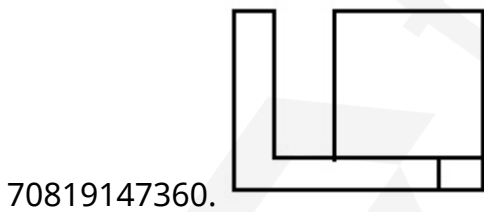
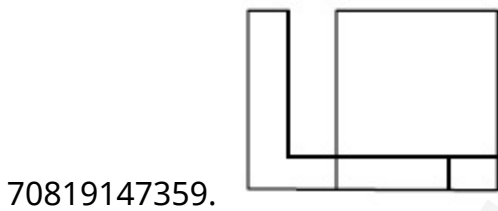
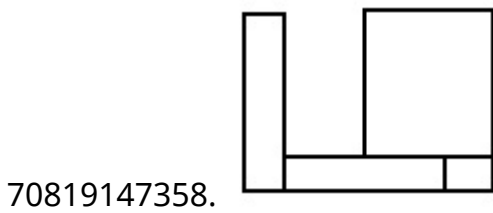
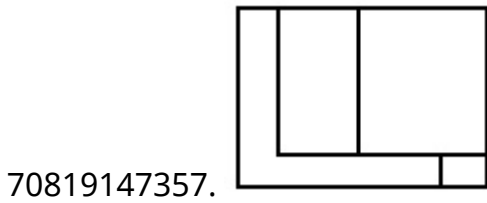


Correct Marks : 4 Wrong Marks : 1

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



Options :

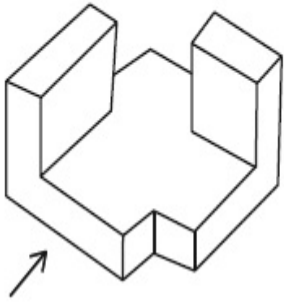


Question Number : 70 Question Id : 70819114253 Question Type : MCQ Option Shuffling : Yes

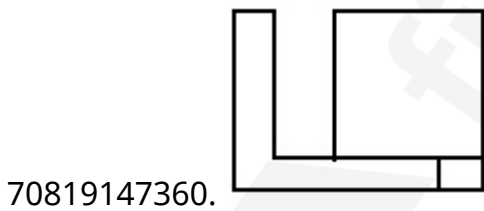
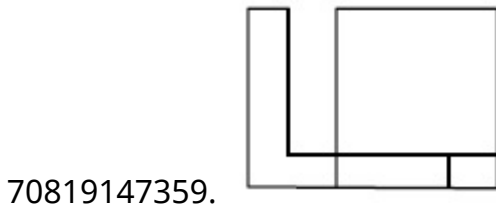
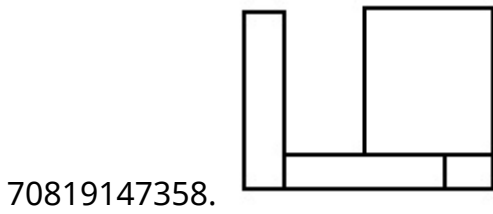
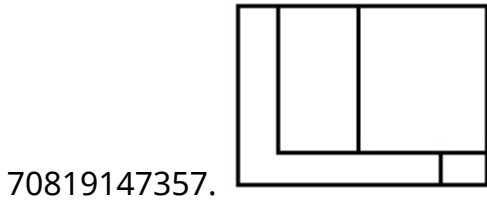
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜਿਸਦਾ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



Options :

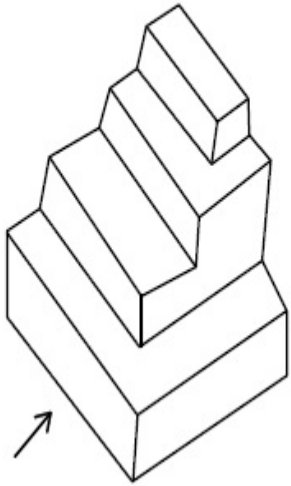


Question Number : 71 Question Id : 70819114254 Question Type : MCQ Option Shuffling : Yes

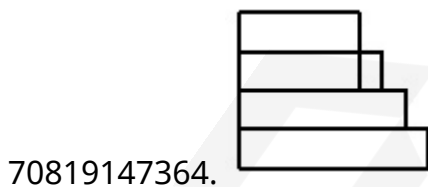
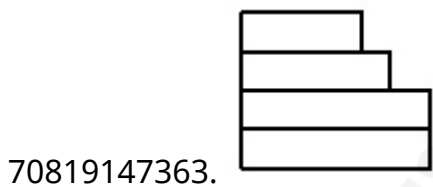
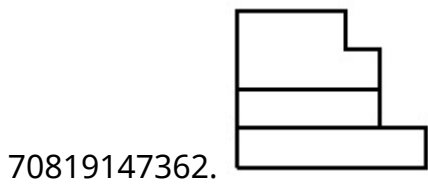
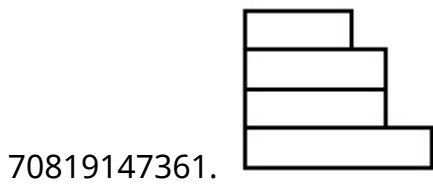
Is Question Mandatory : No

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 :

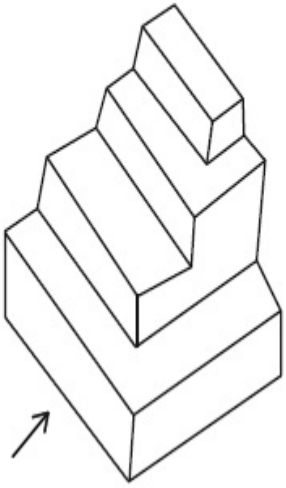


Question Number : 71 Question Id : 70819114254 Question Type : MCQ Option Shuffling : Yes

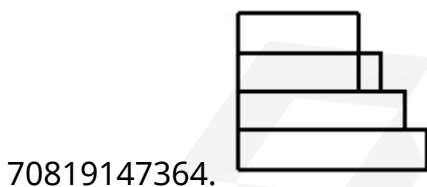
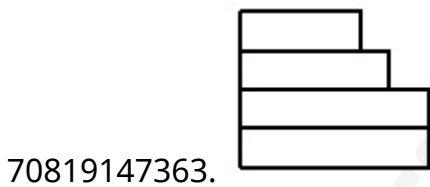
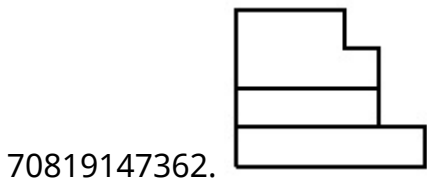
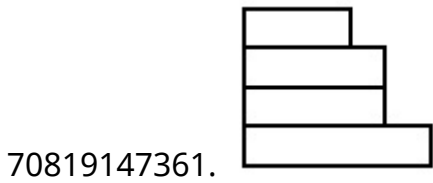
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜਿਸਦੀ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



Options :

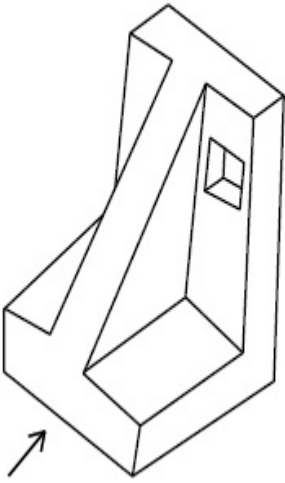


Question Number : 72 Question Id : 70819114255 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

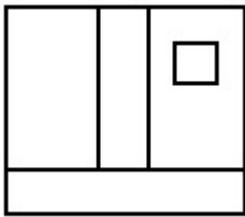
Correct Marks : 4 Wrong Marks : 1

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

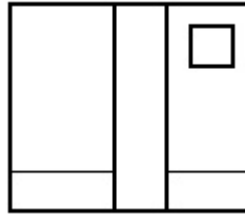


Options :

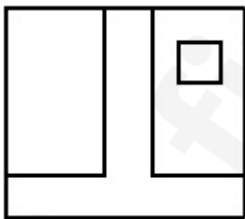
70819147365.



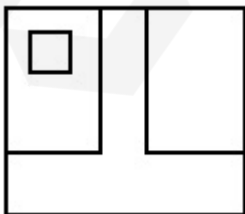
70819147366.



70819147367.

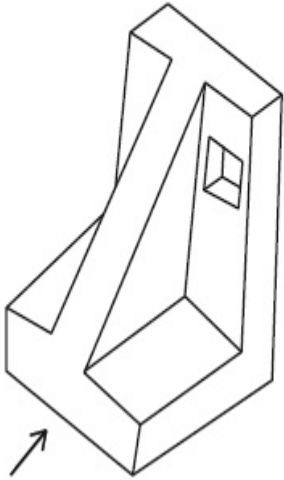


70819147368.

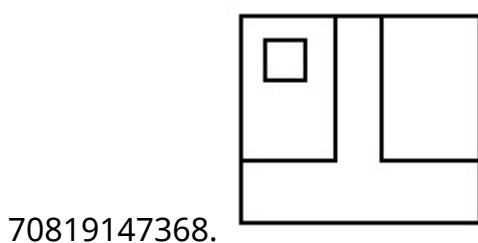
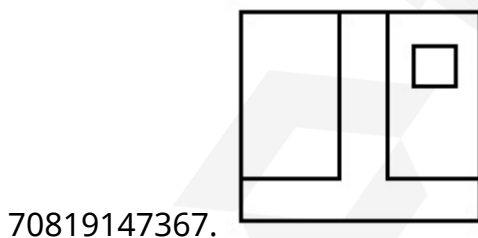
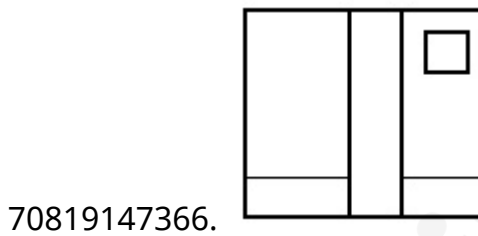
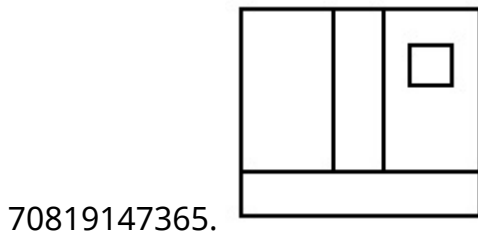


Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



Options :

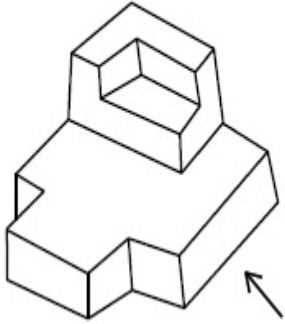


Question Number : 73 Question Id : 70819114256 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

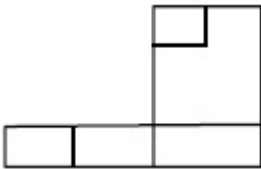
Correct Marks : 4 Wrong Marks : 1

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

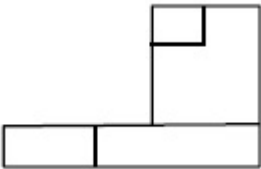


Options :

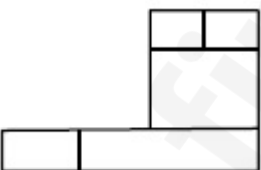
70819147369.



70819147370.



70819147371.



70819147372.

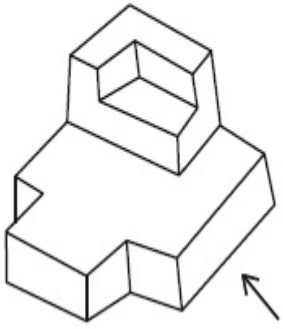


Question Number : 73 Question Id : 70819114256 Question Type : MCQ Option Shuffling : Yes

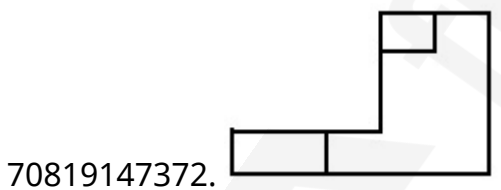
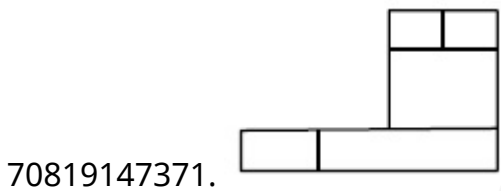
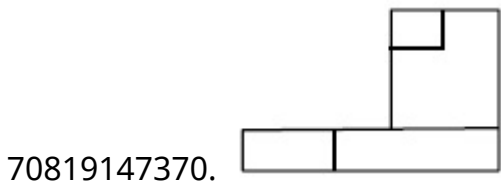
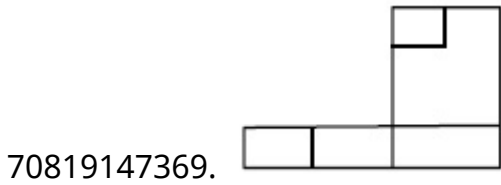
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇ।



Options :

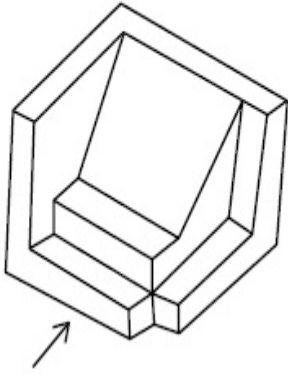


Question Number : 74 Question Id : 70819114257 Question Type : MCQ Option Shuffling : Yes

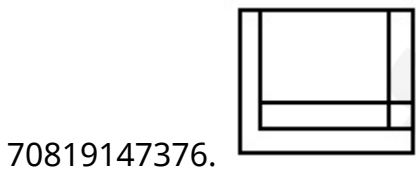
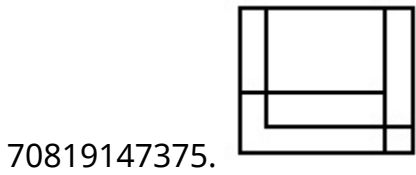
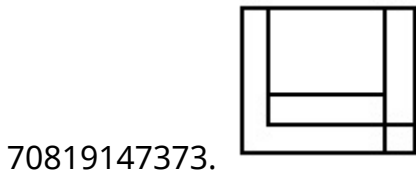
Is Question Mandatory : No

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 :

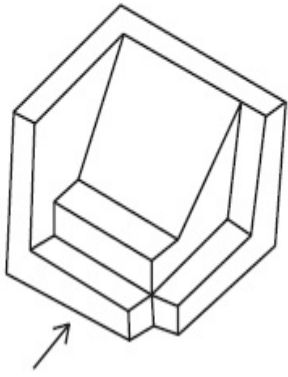


Question Number : 74 Question Id : 70819114257 Question Type : MCQ Option Shuffling : Yes

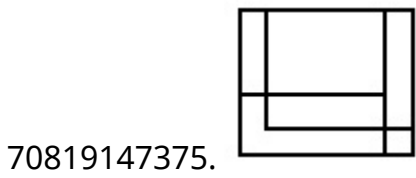
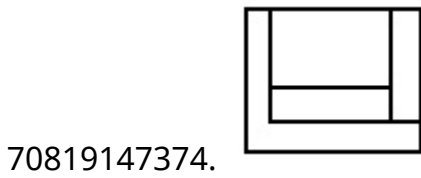
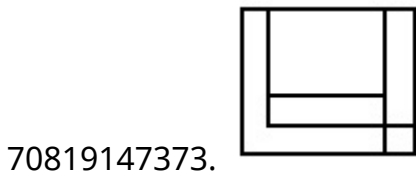
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ, ਜਿਸ ਉਸਤੂ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ।



Options :

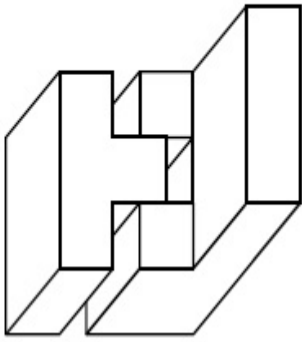


Question Number : 75 Question Id : 70819114258 Question Type : MCQ Option Shuffling : Yes

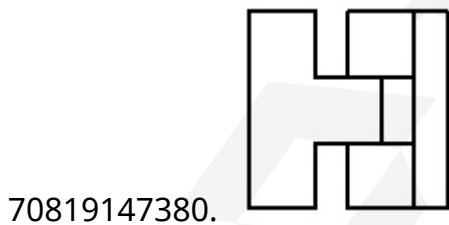
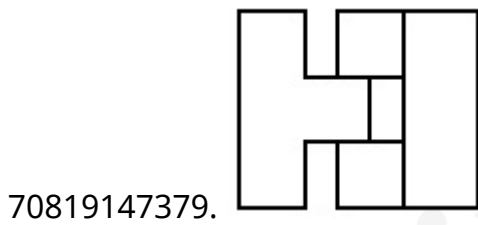
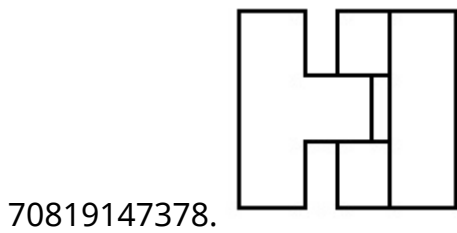
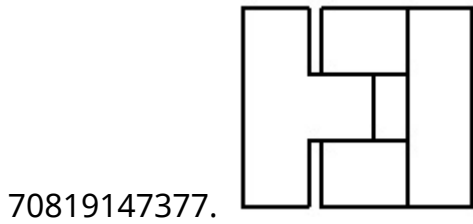
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

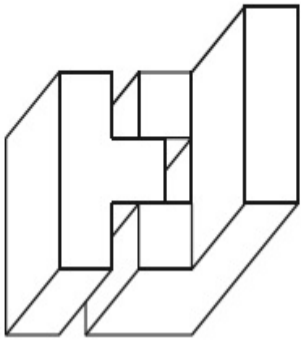


Options :

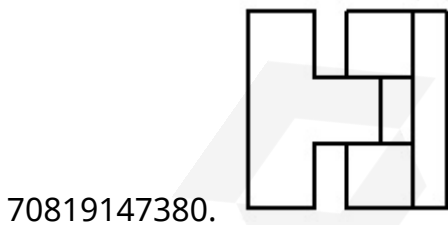
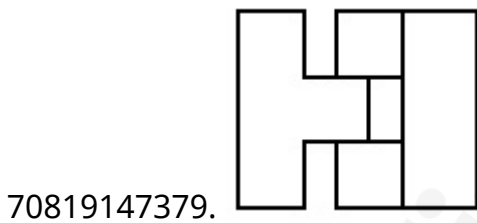
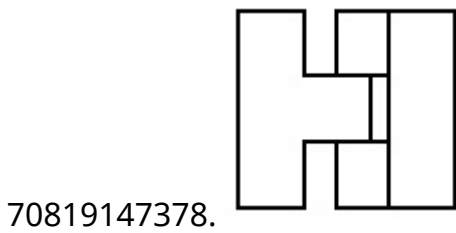
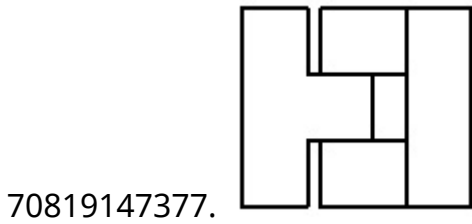


Question Number : 75 Question Id : 70819114258 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No  
Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਚੀਜ਼ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿਚੋਂ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਚੀਜ਼ ਦਾ ਸਹੀ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ।



Options :

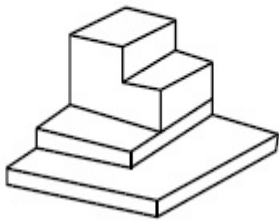


Question Number : 76 Question Id : 70819114259 Question Type : MCQ Option Shuffling : Yes

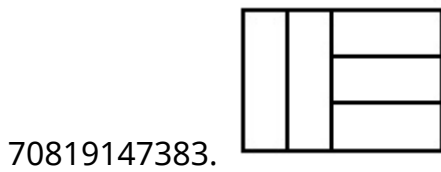
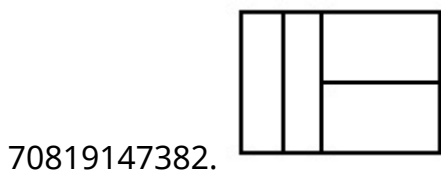
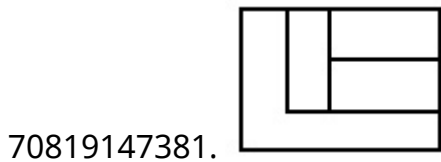
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

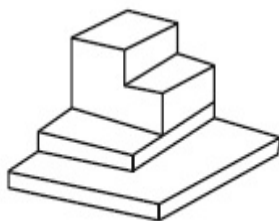


Question Number : 76 Question Id : 70819114259 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

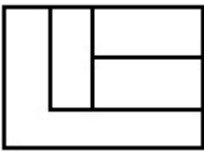
Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਚੀਜ਼ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿੱਚੋਂ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਚੀਜ਼ ਦਾ ਸਹੀ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ।



Options :

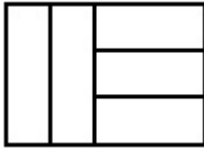
70819147381.



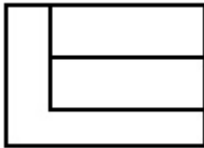
70819147382.



70819147383.



70819147384.

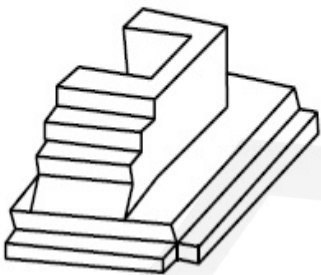


**Question Number : 77 Question Id : 70819114260 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

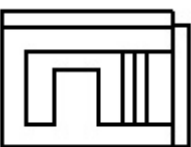
**Correct Marks : 4 Wrong Marks : 1**

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

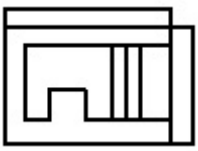


**Options :**

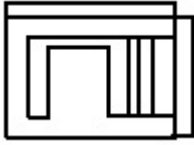
70819147385.



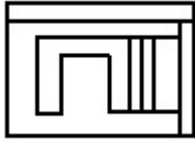
70819147386.



70819147387.



70819147388.

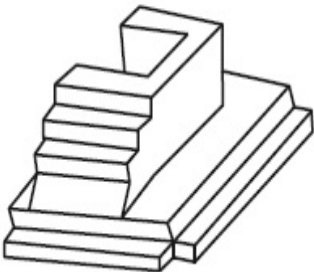


Question Number : 77 Question Id : 70819114260 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

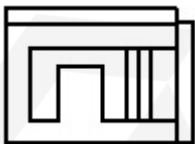
Correct Marks : 4 Wrong Marks : 1

3-ਡੀ ਚਿੱਤਰ ਕਿਸੇ ਚੀਜ਼ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿਚੋਂ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਚੀਜ਼ ਦਾ ਸਹੀ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ।

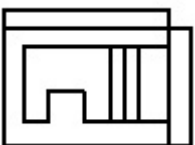


Options :

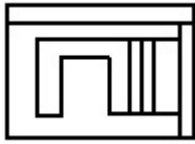
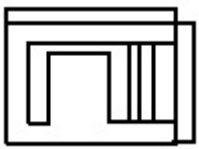
70819147385.



70819147386.



70819147387.



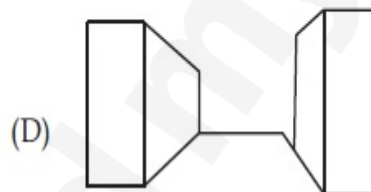
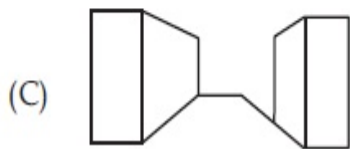
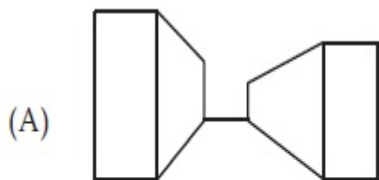
70819147388.

Question Number : 78 Question Id : 70819114261 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 :

70819147389. (A) and (B)

70819147390. (B) and (C)

70819147391. (C) and (D)

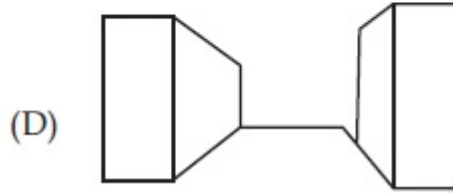
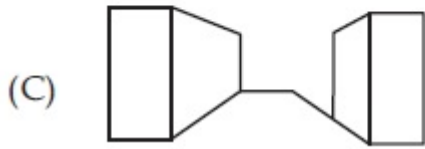
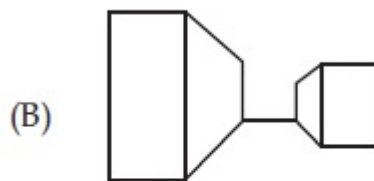
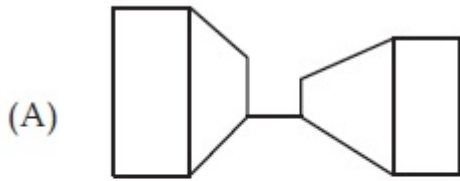
70819147392. (D) and (A)

Question Number : 78 Question Id : 70819114261 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ਪਛਾਣ ਕਰੋ, ਹੇਠ ਦਿੱਤੀ ਕਿਹੜੀ ਇਮਾਰਤੀ ਰਚਨਾਵਾਂ ਵਿੱਚੋਂ ਦੇਖਣ ਸੰਬੰਧੀ (Visual) ਘੱਟ ਤਨਾਵ ਹੈ ?



Options :

70819147389. (A) ਅਤੇ (B)

70819147390. (B) ਅਤੇ (C)

70819147391. (C) ਅਤੇ (D)

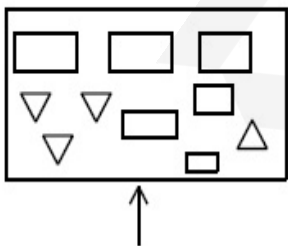
70819147392. (D) ਅਤੇ (A)

Question Number : 79 Question Id : 70819114262 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

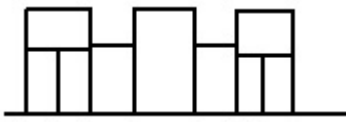
Correct Marks : 4 Wrong Marks : 1

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

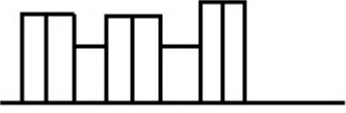


Options :



70819147394. 

70819147395. 

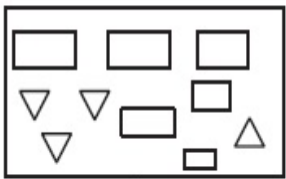
70819147396. 

**Question Number : 79 Question Id : 70819114262 Question Type : MCQ Option Shuffling : Yes**


**Is Question Mandatory : No**


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

ਸਵਾਲ ਚਿੱਤਰ ਕਿਸੇ ਚੀਜ਼ ਦਾ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿੱਚੋਂ ਪਛਾਣੋ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਚੀਜ਼ ਦੇ ਸਾਹਮਣੇ ਦਾ ਦ੍ਰਿਸ਼ (ਐਲੀਵੇਸ਼ਨ ) ਦਿਖਾ ਰਿਹਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ ।




**Options :**

70819147393. 

70819147394. 

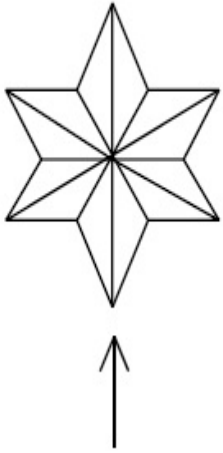
70819147395. 

70819147396. 

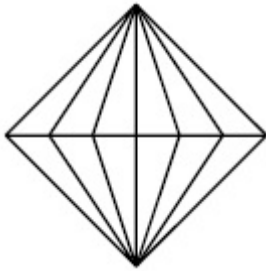
Question Number : 80 Question Id : 70819114263 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

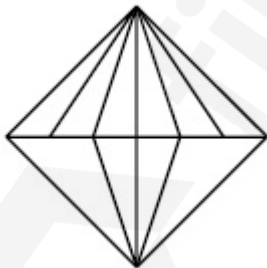
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



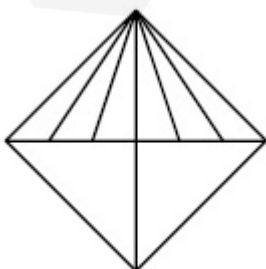
Options :



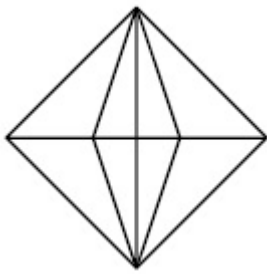
70819147397.



70819147398.



70819147399.



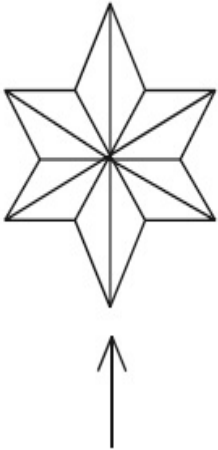
70819147400.

**Question Number : 80 Question Id : 70819114263 Question Type : MCQ Option Shuffling : Yes**

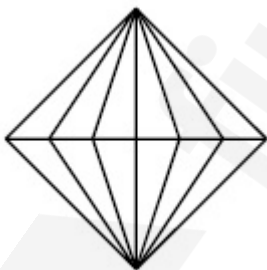
**Is Question Mandatory : No**

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

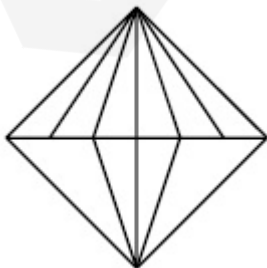
ਸਵਾਲ ਚਿੱਤਰ ਕਿਸੇ ਵਸਤੂ ਦਾ ਚੋਟੀ ਦਾ ਦ੍ਰਿਸ਼ ਦਿਖਾ ਰਿਹਾ ਹੈ । ਇੰਨਾਂ ਵਿੱਚੋਂ ਪਛਾਣੋ ਕਿਹੜਾ ਜਵਾਬ ਚਿੱਤਰ, ਇਸ ਵਸਤੂ ਦੇ ਸਾਹਮਣੇ ਦਾ ਦ੍ਰਿਸ਼ (ਐਲੀਵੇਸ਼ਨ ) ਦਿਖਾਉਂਦਾ ਹੈ, ਜੇ ਉਸਨੂੰ ਤੀਰ ਦੀ ਦਿਸ਼ਾ ਵੱਲੋਂ ਦੇਖਿਆ ਜਾਵੇਗਾ ।



**Options :**

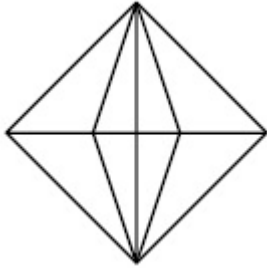
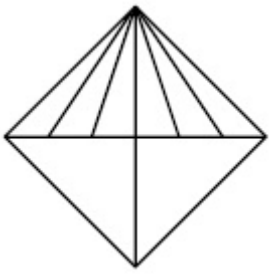


70819147397.



70819147398.

70819147399.



70819147400.

## Drawing

<b>Section Id :</b>	708191507
<b>Section Number :</b>	4
<b>Section type :</b>	Offline
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	2
<b>Number of Questions to be attempted :</b>	2
<b>Section Marks :</b>	100
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	708191787
<b>Question Shuffling Allowed :</b>	No

**Question Number : 81 Question Id : 70819114264 Question Type : SUBJECTIVE**

**Correct Marks : 50**

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

OR

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



Question Number : 81 Question Id : 70819114264 Question Type : SUBJECTIVE

Correct Marks : 50

ਆਪਣੇ ਪਸੰਦ ਦੀ ਕਾਲੇ ਅਤੇ ਚੀਟੇ-ਪੇਸ਼ਕਾਰੀ ਦੀ ਤਕਨੀਕ ਦੇ ਨਾਲ ਦਿੱਤੇ ਗਏ ਸਵਾਲ ਚਿੱਤਰ ਦਾ ਅਨੁਮਾਤੀ ਚਿੱਤਰ ਬਣਾਉ ।

(ਯਾ)

ਦਿੱਤੀ ਗਈ ਤਸਵੀਰ ਨੂੰ ਡੀਕੋਡ ਕਰੋ ਅਤੇ ਆਪਣੇ ਫਰੇਮ ਦੀ ਪਸੰਦ ਦੇ ਨਾਲ ਇਕ ਸੰਤੁਲਿਤ ਰਚਣਾ ਤਿਆਰ ਕਰੋ । ਆਪਣੇ ਪਸੰਦ ਦੇ ਕਾਲੇ-ਚੀਟੇ ਪੇਸ਼ਕਾਰੀ ਤਕਨੀਕ ਦੀ ਵਰਤੋ ਕਰੋ ।



Question Number : 82 Question Id : 70819114265 Question Type : SUBJECTIVE

Correct Marks : 50

Draw a scene of a Kite festival by using colors.

OR

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

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

Use 'Cool Colorscheme' for composition.

Question Number : 82 Question Id : 70819114265 Question Type : SUBJECTIVE

Correct Marks : 50

ਰੰਗਾਂ ਦੀ ਵਰਤੋਂ ਕਰਦੇ ਹੋਏ ਪਤੰਗ ਦੇ ਤਿਉਹਾਰ ਦਾ ਇੱਕ ਦ੍ਰਿਸ਼ ਬਣਾਓ ।

(ਯਾ)

ਹੇਠ ਲਿਖਿਆਂ ਦੇ ਕਿਸਮਾਂ ਦੇ ਵਸਤੂਆਂ ਦੇ ਨਾਲ ਇੱਕ ਆਰਮੋਨਿਕ 3 ਅਯਾਮੀ ਰਚਨਾ ਬਣਾਓ :

- (i) ਕਿਊਬਾਇਡ (CUBOID) A : ਮਾਪ  $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$ , 5 Nos.
- (ii) ਕਿਊਬਾਇਡ (CUBOID) B : ਮਾਪ  $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$ , 4 Nos.

ਠੰਡੀ ਰੰਗ ਤਕਨੀਕ ਦੀ ਵਰਤੋਂ ਕਰੋ ।