

<b>Question Paper Name :</b>	B ARCH EU 23rd Feb 2021 Shift 2
<b>Subject Name :</b>	B ARCH EU
<b>Creation Date :</b>	2021-02-22 21:16:48
<b>Duration :</b>	180
<b>Number of Questions :</b>	82
<b>Total Marks :</b>	400
<b>Display Marks:</b>	Yes

## B ARCH EU

<b>Group Number :</b>	1
<b>Group Id :</b>	708191155
<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>	708191516
<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 :** 708191796  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 70819114430 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 :**

70819147981.  $\frac{121}{3}$

70819147982.  $\frac{122}{3}$

70819147983.  $\frac{125}{3}$

70819147984.  $\frac{128}{3}$

**Question Number : 1 Question Id : 70819114430 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

(integral) تکمیل

\_\_\_\_\_ کی قیمت  $\int_{-4}^4 |9-x^2| dx$  ہے۔

Options :

70819147981.  $\frac{121}{3}$

70819147982.  $\frac{122}{3}$

70819147983.  $\frac{125}{3}$

70819147984.  $\frac{128}{3}$

Question Number : 2 Question Id : 70819114431 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 :

70819147985.  $\frac{31}{13}$

70819147986.  $\frac{108}{13}$

70819147987.  $\frac{27}{2}$

70819147988.

Question Number : 2 Question Id : 70819114431 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

سلسلہ ہندسہ Geometric Progression کے لامحدود ارکان کا مجموعہ 3 ہے۔ اور اس کے ارکان کے مربع کا مجموعہ  $\frac{9}{2}$  ہے تو اس کے ارکان کے مکعب (cube) کا مجموعہ \_\_\_\_\_ ہے۔

Options :

70819147985.  $\frac{31}{13}$

70819147986.  $\frac{108}{13}$

70819147987.  $\frac{27}{2}$

70819147988.  $\frac{54}{7}$

Question Number : 3 Question Id : 70819114432 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 :

70819147989.  $P \Leftrightarrow P \vee q$

70819147990.  $(P \wedge q) \Leftrightarrow P$

70819147991.  $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819147992.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 3 Question Id : 70819114432 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

مندرجہ ذیل میں سے کونسا بولین جملہ (Boolean expression) با معنی (tautology) ہے ؟

**Options :**

70819147989.  $P \Leftrightarrow P \vee q$

70819147990.  $(p \wedge q) \Leftrightarrow p$

70819147991.  $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819147992.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 4 Question Id : 70819114433 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 :**

70819147993. a, b and c are in Arithmetic Progression

70819147994. a, b and c are in Geometric Progression

70819147995. a, 2b and c are in Arithmetic Progression

70819147996. a, b and c satisfy  $2b^2 = ac$

Question Number : 4 Question Id : 70819114433 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$$x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n, z = \sum_{n=0}^{\infty} c^n \text{ اور } |a| < 1, |b| < 1, |c| < 1 \text{ فرض کیجئے}$$

اگر  $\frac{1}{z}, \frac{1}{y}, \frac{1}{x}$  سلسلہ حسابیہ (Arithmetic Progression) میں ہیں تو :

Options :

70819147993. c اور b, a سلسلہ حسابیہ میں ہیں۔

70819147994. c اور b, a سلسلہ ہندسہ (Geometric Progression) میں ہیں۔

70819147995. c اور 2b, a سلسلہ حسابیہ میں ہیں۔

70819147996.  $2b^2 = ac$  کو مطمئن (Satisfy) کرتے ہے۔ c اور b, a

Question Number : 5 Question Id : 70819114434 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!} \text{ is equal to :}$$

Options :

70819147997.  $15e + 5$

70819147998.  $15e - 5$

70819147999.  $16e - 5$

70819148000.  $16e - 7$

**Question Number : 5 Question Id : 70819114434 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

\_\_\_\_\_ کے برابر ہے۔  $\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$

**Options :**

70819147997.  $15e + 5$

70819147998.  $15e - 5$

70819147999.  $16e - 5$

70819148000.  $16e - 7$

**Question Number : 6 Question Id : 70819114435 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 :**

70819148001. 5

70819148002. 3

70819148003. 7

70819148004. 1

**Question Number : 6 Question Id : 70819114435 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

' $\lambda$ ' کی اقل مثبت کامل قیمت \_\_\_\_\_ اس طرح ہے کہ  $10^{50} + (3 \times (4)^{52}) + \lambda$  ، 9 سے تقسیم پذیر ہے۔

**Options :**

70819148001. 5

70819148002. 3

70819148003. 7

70819148004. 1

**Question Number : 7 Question Id : 70819114436 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 :**

70819148005. 455

70819148006. 421

70819148007. 435

**Question Number : 7 Question Id : 70819114436 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

تین متوازی اور ہم مستوی خطوط پر 4, 5 اور 6 نقاط واقع ہیں۔ اگر چار یا اس سے زیادہ نقاط کا کوئی سیٹ جو دوری (cyclic) نہیں ہو اور تین نقاط جو کہ مختلف خطوط پر واقع ہیں اور ہم خطی نہیں ہوں تو صرف تین نقاط سے گزرنے والے دائرے کی تعداد \_\_\_\_\_ ہے۔

**Options :**

70819148005. 455

70819148006. 421

70819148007. 435

70819148008. 441

**Question Number : 8 Question Id : 70819114437 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 :**

70819148009. a = 1, b = 0

70819148010. a = 0, b = 1

70819148011. a = 0, b = -1

70819148012.  $a = -1, b = 1$

**Question Number : 8 Question Id : 70819114437 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

اگر  $y = \frac{ax - b}{(x - 1)(x - 4)}$  اس کا اعظم اور اقل نقطہ (extremum)  $(2, -1)$  پر ہے تو  $a$  اور  $b$  کی قیمتیں  
- ہیں \_\_\_\_\_

**Options :**

70819148009.  $a = 1, b = 0$

70819148010.  $a = 0, b = 1$

70819148011.  $a = 0, b = -1$

70819148012.  $a = -1, b = 1$

**Question Number : 9 Question Id : 70819114438 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 :**

70819148013.  $\frac{9}{13}$

70819148014.  $\frac{15}{4}$

70819148015.

70819148016.  $\frac{1}{13}$

**Question Number : 9 Question Id : 70819114438 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

مستویوں  $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$  اور  $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$  کے درمیان کا فاصلہ ہے \_\_\_\_\_

**Options :**

70819148013.  $\frac{9}{13}$

70819148014.  $\frac{15}{4}$

70819148015.  $\frac{13}{9}$

70819148016.  $\frac{1}{13}$

**Question Number : 10 Question Id : 70819114439 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 :**

70819148017.  $\frac{7}{20}$

70819148018.  $\frac{1}{20}$

70819148019.  $\frac{19}{20}$

70819148020.  $\frac{12}{20}$

Question Number : 10 Question Id : 70819114439 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

حساب کا ایک مسئلہ کو دو طالب علم X اور Y کے ذریعہ حل کرنے کی احتمال بالترتیب  $\frac{1}{4}$  اور  $\frac{1}{5}$  ہیں۔ اگر دونوں آزادانہ طور پر مسئلے کو حل کرنے کی کوشش کرتے ہیں تو ان میں سے صرف ایک (exactly one) کے مسئلے کو حل کرنے کی احتمال \_\_\_\_\_ ہے۔

Options :

70819148017.  $\frac{7}{20}$

70819148018.  $\frac{1}{20}$

70819148019.  $\frac{19}{20}$

70819148020.  $\frac{12}{20}$

Question Number : 11 Question Id : 70819114440 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 :

70819148021.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819148022.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819148023.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819148024.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

Question Number : 11 Question Id : 70819114440 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ملف عدد  $\frac{1+i}{1-i}$  (complex number) کا قطبی شکل (polar form) کے برابر ہے۔

Options :

70819148021.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819148022.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819148023.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

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

70819148024.

**Question Number : 12 Question Id : 70819114441 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 :**

70819148025. 2

70819148026. 3

70819148027. 4

70819148028. 1

**Question Number : 12 Question Id : 70819114441 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

اگر خط کی مساوات  $ax=7$  جو نقاط (1, 0) اور (3, 0) کو ملانے والے قطع خط کو 2 : 1 کی نسبت میں تقسیم کرتا ہے اور اس پر عمود بھی ہے تو a کی قیمت \_\_\_\_\_ کے برابر ہے۔

**Options :**

70819148025. 2

70819148026. 3

70819148027. 4

**Question Number : 13 Question Id : 70819114442 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 :**

70819148029.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819148030.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819148031.  $2(x^2 + y^2) - x + y + 1 = 0$

70819148032.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 13 Question Id : 70819114442 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

اس دائرے کے مساوات کیا ہیں جو دائرہ  $x^2 + y^2 - 2x = 0$  کا  $x + y = 2$  کے لحاظ سے آئینہ عکس ہے۔

**Options :**

70819148029.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819148030.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819148031.  $2(x^2 + y^2) - x + y + 1 = 0$

70819148032.  $x^2 + y^2 - 2x - 4y + 3 = 0$

Question Number : 14 Question Id : 70819114443 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 :

70819148033.  $y+3=0$  and  $x-1=0$

70819148034.  $x-3=0$  and  $y+1=0$

70819148035.  $x+3=0$  and  $x-1=0$

70819148036.  $y+3=0$  and  $y-1=0$

Question Number : 14 Question Id : 70819114443 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

کی (common tangent) کے مشترکہ مماس  $(x+1)^2 + (y-1)^2 = 4$  اور دائرہ  $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$  بیضوی مساواتیں ہیں۔

Options :

70819148033.  $x-1=0$  اور  $y+3=0$

70819148034.  $y+1=0$  اور  $x-3=0$

70819148035.  $x-1=0$  اور  $x+3=0$

70819148036.  $y - 1 = 0$  or  $y + 3 = 0$

Question Number : 15 Question Id : 70819114444 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 :

70819148037.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819148038.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819148039.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819148040.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 15 Question Id : 70819114444 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

← \_\_\_\_\_  $A^k$  ( $k \in \mathbb{N}$ ) →  $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$  →

Options :

70819148037.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819148038.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819148039.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819148040.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

**Question Number : 16 Question Id : 70819114445 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 :**

70819148041.  $s=5, t=13$

70819148042.  $s \neq 5$

70819148043.  $s=5, t \neq 13$

70819148044.  $t \neq 13$

**Question Number : 16 Question Id : 70819114445 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

s اور t کی قیمتیں \_\_\_\_\_ ہے جس کے لئے مساوات کے نظام

$$x_1 + x_2 + x_3 = 5$$

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

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

کا کوئی حل نہیں (no solution) ہے۔

**Options :**

70819148041.  $s=5, t=13$

70819148042.  $s \neq 5$

70819148043.  $s=5, t \neq 13$

70819148044.  $t \neq 13$

**Question Number : 17 Question Id : 70819114446 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 :**

70819148045. 1

70819148046. -1

70819148047. 0

70819148048. 2

Question Number : 17 Question Id : 70819114446 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

\_\_\_\_\_ (Derivative) کے لحاظ سے مشتق  $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  کا  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  میں  $(1, \infty)$  ہے۔

Options :

70819148045. 1

70819148046. -1

70819148047. 0

70819148048. 2

Question Number : 18 Question Id : 70819114447 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 :

70819148049.  $\frac{\pi}{6}$

70819148050.  $\frac{\pi}{4}$

70819148051.  $\frac{\pi}{3}$

70819148052.

Question Number : 18 Question Id : 70819114447 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

فرض کیجئے  $\vec{a}$ ,  $\vec{b}$  اور  $\vec{c}$  تین سمتیے (vectors) اسطرح ہیں کہ  $\frac{|\vec{a}|}{2} = \frac{|\vec{b}|}{2} = \frac{|\vec{c}|}{2} = 1$ ۔  
اگر  $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$  ہو تو  $\vec{a}$  اور  $\vec{c}$  کے درمیان کا زاویہ حادہ ہے۔

Options :

70819148049.  $\frac{\pi}{6}$

70819148050.  $\frac{\pi}{4}$

70819148051.  $\frac{\pi}{3}$

70819148052.  $\frac{5\pi}{12}$

Question Number : 19 Question Id : 70819114448 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 :

70819148053.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819148054.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819148055.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819148056.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 19 Question Id : 70819114448 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

- ہے \_\_\_\_\_ (differential equation) تفریقی مساوات  $(1+y^2)dx = (\tan^{-1}y - x)dy$  کا حل  
(یہاں پر 'c' ایک معمول مستقل (arbitrary constant) ہے)

Options :

70819148053.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819148054.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819148055.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819148056.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

Question Number : 20 Question Id : 70819114449 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 :

70819148057.  $[-5, -4] \cup [4, 5]$

70819148058.  $[-5, 4) \cup (-4, 5]$

70819148059.  $(-5, -4) \cup (4, 5)$

70819148060.  $(-5, 4) \cup (-4, 5)$

Question Number : 20 Question Id : 70819114449 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

\_\_\_\_\_ کی قیمت  $x$  میں واقع ہے جس کے لئے سمتیہ  $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$  یہ مثبت سمت میں محدودی محوروں کے ساتھ زاویہ طاقہ بناتے ہیں۔ (coordinate axes)

Options :

70819148057.  $[-5, -4] \cup [4, 5]$

70819148058.  $[-5, 4) \cup (-4, 5]$

70819148059.  $(-5, -4) \cup (4, 5)$

70819148060.  $(-5, 4) \cup (-4, 5)$

## Mathematics Section B

Section Id :

708191517

Section Number :

2

Section type :

Online

Mandatory or Optional :

Mandatory

Number of Questions : 10  
Number of Questions to be attempted : 5  
Section Marks : 20  
Mark As Answered Required? : Yes  
Sub-Section Number : 1  
Sub-Section Id : 708191797  
Question Shuffling Allowed : Yes

Question Number : 21 Question Id : 70819114450 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 : 70819114450 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

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

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 : 70819114451 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 : 70819114451 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

\_\_\_\_\_ (minimum value) کی کم سے کم قیمت  $9\tan^2\theta + 4\cot^2\theta$  ہے۔

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 : 70819114452 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 : 70819114452 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2} \text{ خط}$$

----- (length of the perpendicular) سے عمود کی لمبائی (1, 2, 3) پر نقطہ

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 : 70819114453 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 : 70819114453 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$\log_3\left(2^x - \frac{7}{2}\right) \text{ اور } \log_3(2^x - 5) , \log_3 2 \text{ اگر}$$

سلسلہ حسابیہ (Arithmetic Progression) میں ہیں تو  $x$  کی قیمت \_\_\_\_\_ ہے۔

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 : 70819114454 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$\text{If } x^2 + x + 1 = 0, \text{ then } - \left\{ \left( x - \frac{1}{x} \right)^2 + \left( x^2 - \frac{1}{x^2} \right)^2 + \left( x^3 - \frac{1}{x^3} \right)^2 \right\} \text{ is } \underline{\hspace{2cm}}.$$

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 : 25 Question Id : 70819114454 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$$x^2 + x + 1 = 0$$

$$- \left\{ \left( x - \frac{1}{x} \right)^2 + \left( x^2 - \frac{1}{x^2} \right)^2 + \left( x^3 - \frac{1}{x^3} \right)^2 \right\}$$

← \_\_\_\_\_

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 26 **Question Id :** 70819114455 **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 :** 70819114455 **Question Type :** SA

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

دائرہ  $x^2 + y^2 - 4x - 2y - 11 = 0$  پر نقطہ (4, 5) سے مماس (tangents) کھینچے گئے ہیں جو نصف قطروں (radii) کی جوڑی کے ساتھ مل کر چار ضلعی بناتے ہیں۔ اس چار ضلعی کا رقبہ مربع اکائی میں \_\_\_\_\_ ہے۔

**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 :** 70819114456 **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 :** 70819114456 **Question Type :** SA

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

اگر ایک ثنائی تقسیم (binomial distribution) میں اوسط (mean) اور تغیر (variance) کا مجموعہ 15 ہے۔ اور ان کے مربعوں (squares) کا مجموعہ 117 ہے تو آزاد آزمائش (independent trials) کی تعداد \_\_\_\_\_ ہے۔

**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 : 70819114457 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 : 70819114457 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

فرض کیجئے  $ax + by + cz + d = 0$  اس مستوی کی مساوات ہے جو نقاط (1, 2, 6)، (2, 5, 7) میں سے گزرتی ہے اور مستوی  $4x - y + z = 15$  پر عمود ہے۔  
اگر  $a, b, c, d \in \mathbb{Z}$  اس طرح ہے کہ  $\gcd(|a|, |b|, |c|) = 1$  تو  $|a + b + c + d|$  کے برابر ہے۔

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 : 70819114458 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 :** 70819114458 **Question Type :** SA

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

\_\_\_\_\_ میں  $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$  کی تعداد واقعہ (real solutions) کے حقیقی حل  $4\sin^2x - 8\sin x + 3 = 0$  مساوات

←

**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 :** 70819114459 **Question Type :** SA

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

Let  $A_1, A_2, A_3, \dots$  be an increasing geometric progression. If  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  and  $A_5A_7 = 441$ , then  $3(A_2 + A_4)$  is equal to \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 30 Question Id : 70819114459 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

(Increasing geometric progression) فرض کیجئے  $A_1, A_2, A_3, \dots$  ایک آگے بڑھنے والا سلسلہ ہندی

ہے۔ اگر  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  اور  $A_5 A_7 = 441$  تو  $3(A_2 + A_4)$  کے برابر ہے۔

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

## Aptitude Test

Section Id :	708191518
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 :

70819179

Question Shuffling Allowed :

Yes

Question Number : 31 Question Id : 70819114460 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 :

70819148071. United Nations Educational, Scientific & Cultural Organization.

70819148072. United Nations Educational Security Cultural Organization.

70819148073. United Nations Entrance Site Calling Organization.

70819148074. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 31 Question Id : 70819114460 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کونسا 'یونسکو' کا پورا نام ہے ؟

Options :

70819148071. یوناٹڈ نیشنس ایجوکیشنل، سائینٹفک اینڈ کلچرل آرگنائزیشن

70819148072. یوناٹڈ نیشنس ایجوکیشنل اینڈ سکوریٹی کلچرل آرگنائزیشن

70819148073. یوناٹڈ نیشنس انٹرنس سائٹ کالنگ آرگنائزیشن

70819148074. یوناٹڈ نیشنس ایجوکیشنل، سسٹینیبیل کلچرل آرگنائزیشن

Question Number : 32 Question Id : 70819114461 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List - I with List - II.

List - I

List - II

(I) Hall of Nation

(a)



(II) Falling Water, Pennsylvania

(b)



(III) Petronas Tower

(c)



(IV) Secretariat

(d)



Options :

70819148075. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819148076. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

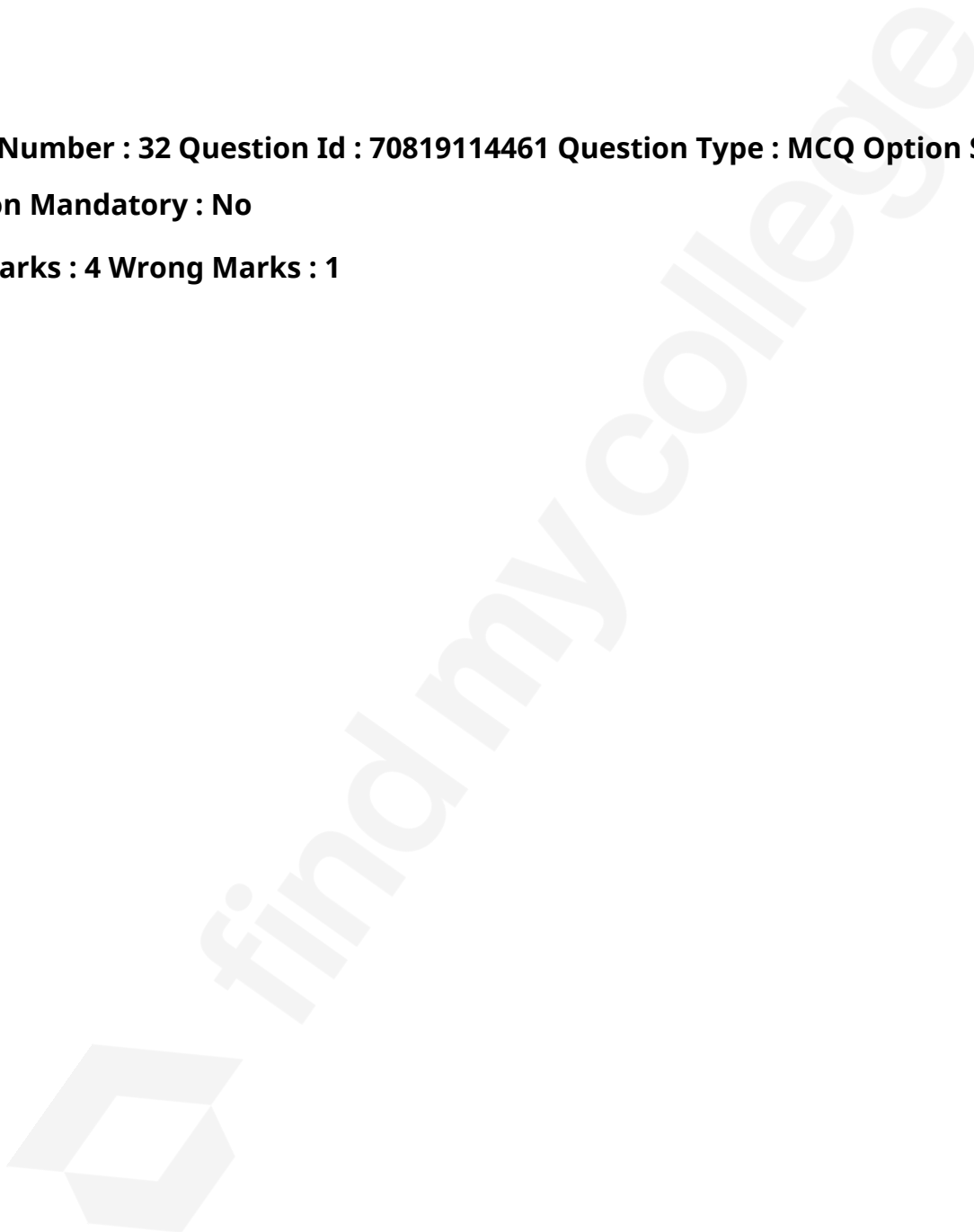
70819148077. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148078. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 32 Question Id : 70819114461 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



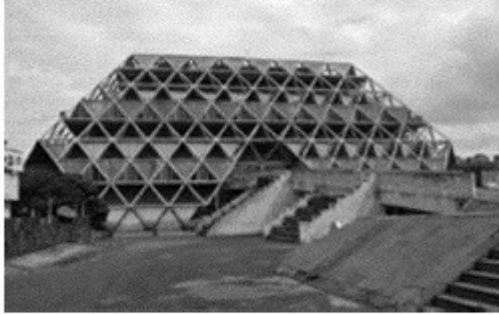
فہرست I کو فہرست II کے ساتھ جوڑیں۔ میل کرائیے :

فہرست II۔

فہرست I۔



(a) ہال آف نیشن (I)



(b) فالنگ واٹر پنسلوینا (II)



(c) پیٹروناس ٹاور (III)



(d) سکریٹریٹ (IV)

Options :

70819148075. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819148076. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148077. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148078. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819114462 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 :**

70819148079. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819148080. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819148081. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819148082. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819114462 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

فہرست-I کو فہرست-II کے ساتھ جوڑیں۔ میل کرائیے :

فہرست-II	فہرست-I
(a) وکٹوریہ میموریل ہال	(I) کامرو
(b) پداری ناتھ مندر	(II) دہلی
(c) کھڑکی مسجد	(III) فتح پور سیکری
(d) بلند دروازہ	(IV) کولکتہ

**Options :**

70819148079. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819148080. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819148081. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819148082. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

Question Number : 34 Question Id : 70819114463 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 :

70819148083. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819148084. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148085. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819148086. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819114463 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

فہرست I- کو فہرست II- کے ساتھ جوڑیں۔ میل کرائیے :

فہرست II-

فہرست I-



(a)

آگرہ قلعہ (I)



(b)

اطالہ مسجد (II)



(c)

نالندہ یونیورسٹی (III)



(d)

جگن ناتھ مندر (IV)

Options :

70819148083. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819148084. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819148085. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819148086. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 35 Question Id : 70819114464 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 :**

70819148087. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819148088. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148089. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819148090. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 35 Question Id : 70819114464 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

فہرست - I کو فہرست - II کے ساتھ جوڑیں۔ میل کرائیے :

فہرست - II	فہرست - I
(a) منالی	(I) یادویندراباغ
(b) امرتسر	(II) ویشنومندر
(c) پنجوڑ	(III) ہیدمبامندر
(d) بنیار	(IV) ہری مندر

**Options :**

70819148087. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819148088. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819148089. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819148090. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 36 Question Id : 70819114465 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 :**

70819148091. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819148092. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819148093. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819148094. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 36 Question Id : 70819114465 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

فہرست I کو فہرست II کے ساتھ جوڑ۔ میل کرائیے :

فہرست II		فہرست I	
حیدرآباد	(a)	مہران گڈھ قلعہ	(I)
کولکتہ	(b)	سیری قلعہ	(II)
دہلی	(c)	گولکنڈہ قلعہ	(III)
جوڈھپور	(d)	فورٹ (قلعہ) ولیم	(IV)

نیچے پیش کئے گئے جوابوں میں سے صحیح جواب منتخب کریں :

Options :

70819148091. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819148092. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819148093. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819148094. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

Question Number : 37 Question Id : 70819114466 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 :

70819148095. B.V. Doshi

70819148096. Arundhati Roy

70819148097. Revati Kamat

70819148098. Bimal Patel

Question Number : 37 Question Id : 70819114466 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

کتاب ”گاؤ آف اسمال ٹھنکس“ کس ہندوستانی معمار نے لکھی ہے ؟

Options :

70819148095. بی۔وی۔دوشی

70819148096. اروندھتی رائے

70819148097. ریوتی کامت

70819148098. بمل پٹیل

Question Number : 38 Question Id : 70819114467 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 :

70819148099. Gujarat

70819148100. West Bengal

70819148101. Tamil Nadu

70819148102. Rajasthan

Question Number : 38 Question Id : 70819114467 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

’جھاروکھا‘ (جھروکہ) قسم کی کھڑکی زیادہ تر کہاں پائی جاتی ہے ؟

Options :

70819148099. گجرات

70819148100. ویسٹ بنگال

70819148101. تمل ناڈو

70819148102. راجستھان

Question Number : 39 Question Id : 70819114468 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 :

70819148103. North-West side

70819148104. South-East side

70819148105. North side

70819148106. South-West side

**Question Number : 39 Question Id : 70819114468 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

موسمی ہوائیں ہندوستانی براعظم میں کس سمت سے داخلہ لیتی ہیں ؟

**Options :**

70819148103. شمال مغرب کی طرف

70819148104. جنوب مشرق کی طرف

70819148105. شمال کی طرف

70819148106. جنوب مغرب کی طرف

**Question Number : 40 Question Id : 70819114469 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 :**

70819148107. Bharat Bhavan in Bhopal

70819148108. LIC Building in Delhi

70819148109. Charminar in Hyderabad

70819148110. Victoria Memorial in Kolkata

Question Number : 40 Question Id : 70819114469 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کون سی عمارت کولونیل آرکیٹیکچر کا اچھا نمونہ ہے ؟

Options :

70819148107. بھارت بھون بھوپال میں

70819148108. ایل۔ آئی۔ سی عمارت دہلی میں

70819148109. چارمینار حیدرآباد میں

70819148110. وکٹوریہ میموریل کولکتہ میں

Question Number : 41 Question Id : 70819114470 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 :

70819148111.  $420 \times 590$  (mm  $\times$  mm)

70819148112.  $420 \times 594$  (mm  $\times$  mm)

70819148113.  $297 \times 420$  (mm  $\times$  mm)

70819148114. 420 × 592 (mm × mm)

Question Number : 41 Question Id : 70819114470 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A2 ڈرائنگ کاغذ کا ناپ کیا ہوتا ہے ؟

Options :

70819148111. 420 × 590 (mm × mm)

70819148112. 420 × 594 (mm × mm)

70819148113. 297 × 420 (mm × mm)

70819148114. 420 × 592 (mm × mm)

Question Number : 42 Question Id : 70819114471 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 :

70819148115. Chittor fort

70819148116. Jaigarh fort

70819148117. Bhangarh fort

70819148118. Amer fort

Question Number : 42 Question Id : 70819114471 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

وکٹری ٹاوران میں سے کس قلعہ میں ہے ؟

Options :

70819148115. چٹوڑ قلعہ

70819148116. جے گڈھ قلعہ

70819148117. بھان گڈھ قلعہ

70819148118. آمیر قلعہ

Question Number : 43 Question Id : 70819114472 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 :

70819148119. Sanjay Puri

70819148120. Vikram Lall

70819148121. Ashok Lall

70819148122. C. Sompura

Question Number : 43 Question Id : 70819114472 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کس معمار نے "اکشردھام" مندر بنایا ہے ؟

Options :

70819148119. سنجے پوری

70819148120. وکرم لال

70819148121. اشوک لال

70819148122. سی۔ سوپورا

Question Number : 44 Question Id : 70819114473 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Volume Zero' Documentary is on which Architect ?

Options :

70819148123. Charles Correa

70819148124. Richard Mier

70819148125. Jasbir Sachdev

70819148126. Ranjit Sabliki

Question Number : 44 Question Id : 70819114473 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

”والیوم زیرو“ دستاویزی فلم کس معمار کے حال پر ہے ؟

Options :

70819148123. چارلس کوریا

70819148124. رچرڈ میئر

70819148125. جسپر سچدیو

70819148126. رنجیت سہلی

Question Number : 45 Question Id : 70819114474 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

‘Agenda 21’ is declaration related with :

Options :

70819148127. Climate change

70819148128. Global warming

70819148129. Sustainable development

70819148130. Smart city

Question Number : 45 Question Id : 70819114474 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ایجنڈا-۲۱ (21) کس اعلامیہ سے متعلق ہے ؟

**Options :**

70819148127. موٹی بدلاؤ

70819148128. گلوبل وارمنگ (کروی گرمی)

70819148129. سسٹینیبیل ڈیولپمنٹ

70819148130. اسارٹ شی

**Question Number : 46 Question Id : 70819114475 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 :**

70819148131. Karnataka

70819148132. Orissa

70819148133. Maharashtra

70819148134. Uttar Pradesh

**Question Number : 46 Question Id : 70819114475 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

سونے کی کانیں ہندوستان کی کس ریاست میں ہیں؟

Options :

70819148131. کرناٹک

70819148132. اوڈیشہ

70819148133. مہاراشٹر

70819148134. اتر پردیش

Question Number : 47 Question Id : 70819114476 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 :

70819148135. North

70819148136. South

70819148137. East

70819148138. West

Question Number : 47 Question Id : 70819114476 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

نصف کرہ جنوبی میں بنا سایہ والی روشنی کس سمت میں ہوتی ہے ؟

Options :

70819148135. شمال

70819148136. جنوب

70819148137. مشرق

70819148138. مغرب

**Question Number : 48 Question Id : 70819114477 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 :**

70819148139. B.V. Doshi

70819148140. Laurie Baker

70819148141. Raj Rewal

70819148142. Achyut Kanvinde

**Question Number : 48 Question Id : 70819114477 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

پہلا ہندوستانی معمار جس نے 2018 میں پرزکر انعام جیتا :

**Options :**

70819148139. بی۔وی۔دوشی

70819148140. لوڑی بیکر

70819148141. راج ریوال

70819148142. اچیت کونڈے

Question Number : 49 Question Id : 70819114478 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Word "Bungalow" has originated from :

Options :

70819148143. Bengalurm

70819148144. Banaras

70819148145. Bengal

70819148146. Bari

Question Number : 49 Question Id : 70819114478 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

لفظ "بگلہ" (Bungalow) کہاں سے وجود میں آیا ہے ؟

Options :

70819148143. بنگالورم

70819148144. بنارس

70819148145. بنگال

70819148146. باری

Question Number : 50 Question Id : 70819114479 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 :

70819148147. Laurie Baker

70819148148. Louis Kahn

70819148149. Lutyen

70819148150. Le Corbusier

Question Number : 50 Question Id : 70819114479 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

”آئی۔ آئی۔ ایم احمدآباد۔ ان میں سے کس معمار نے بنایا ؟

Options :

70819148147. لوئری بیکر

70819148148. لوئیس کان

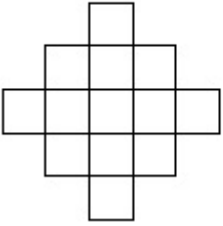
70819148149. لثین

70819148150. لی کور بونیمیر

**Question Number : 51 Question Id : 70819114480 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 :**

70819148151. 14

70819148152. 13

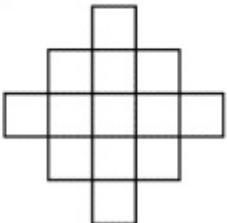
70819148153. 15

70819148154. 18

**Question Number : 51 Question Id : 70819114480 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

اس نقش میں کتنے مربع ہیں ؟



Options :

70819148151. 14

70819148152. 13

70819148153. 15

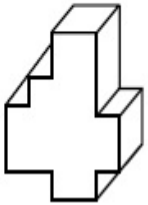
70819148154. 18

Question Number : 52 Question Id : 70819114481 Question Type : MCQ Option Shuffling : Yes

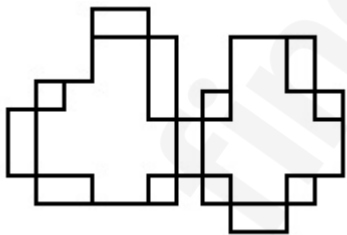
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

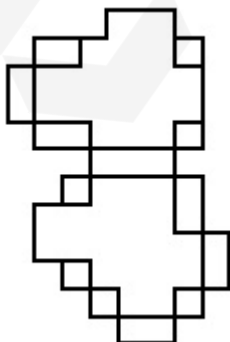
A drawing is provided with all the folds to construct the following three Dimensional object.  
Select the correct one.



Options :

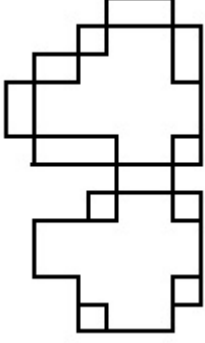
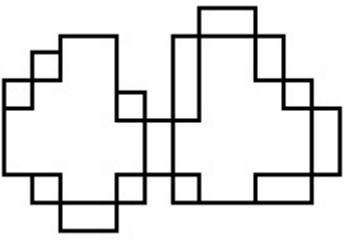


70819148155.



70819148156.

70819148157.



70819148158.

Question Number : 52 Question Id : 70819114481 Question Type : MCQ Option Shuffling : Yes

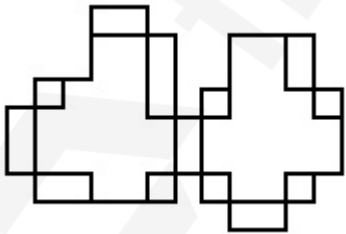
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

دیئے ہوئے ۳۔ جہتی اعتراض (سہ ابعادی تصویر) کا کون سا موڑ کا خاکہ صحیح ہے ؟

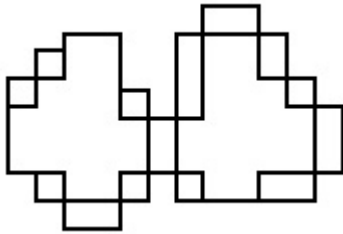
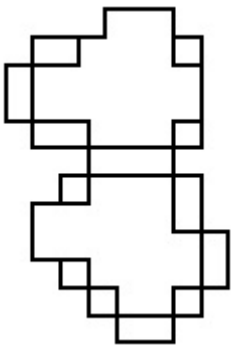


Options :

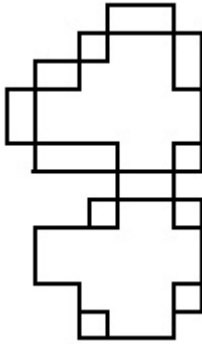


70819148155.

70819148156.



70819148157.



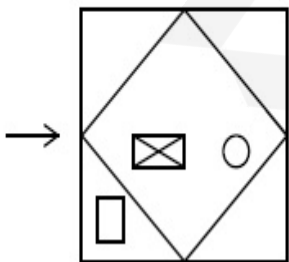
70819148158.

**Question Number : 53 Question Id : 70819114482 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

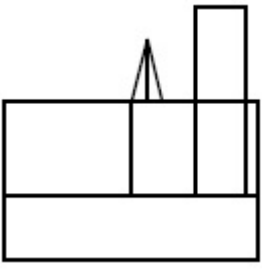
**Correct Marks : 4 Wrong Marks : 1**

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

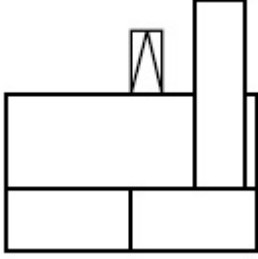


**Options :**

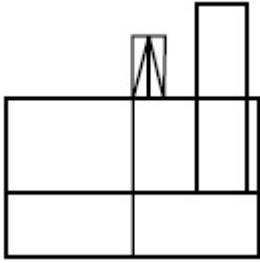
70819148159.



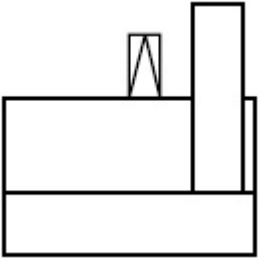
70819148160.



70819148161.



70819148162.

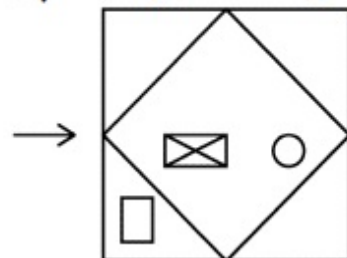


Question Number : 53 Question Id : 70819114482 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

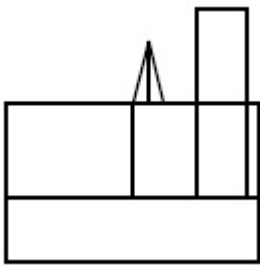
Correct Marks : 4 Wrong Marks : 1

دیئے گئے نقشے میں ایک شے کا اوپری نظارہ دکھ رہا ہے اس شے کو تیر کی طرف سے دیکھئے؟ صحیح دکھائی دینے والا نظارہ کو پہچانیئے۔

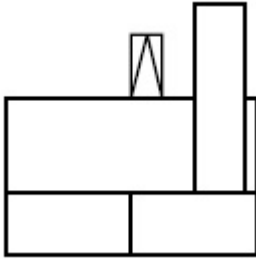


Options :

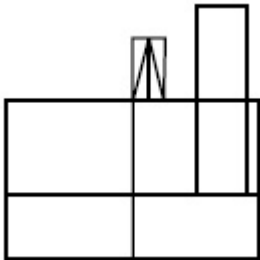
70819148159.



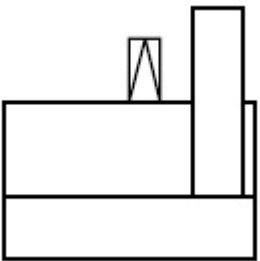
70819148160.



70819148161.



70819148162.

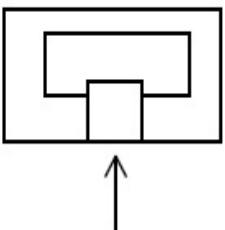


**Question Number : 54 Question Id : 70819114483 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

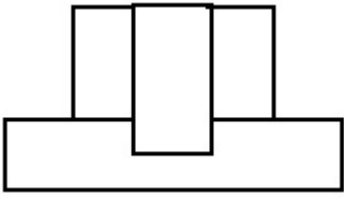
**Correct Marks : 4 Wrong Marks : 1**

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

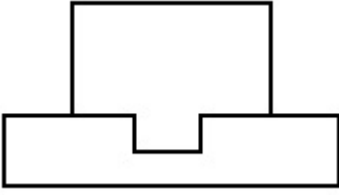


**Options :**

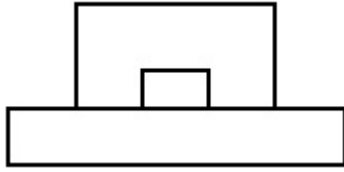
70819148163.



70819148164.



70819148165.



70819148166.

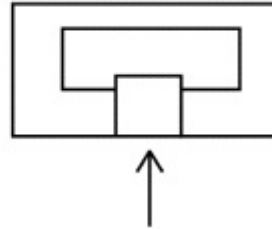


Question Number : 54 Question Id : 70819114483 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

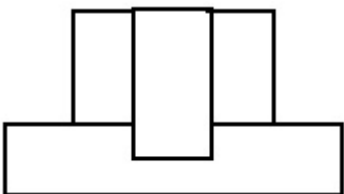
Correct Marks : 4 Wrong Marks : 1

اس سوالیہ نقشے میں ایک چیز کا اوپری نظارہ دکھایا گیا ہے۔ تیر کے نشان کی طرف سے اس کا سامنے کا نظارہ کیا ہوگا ؟

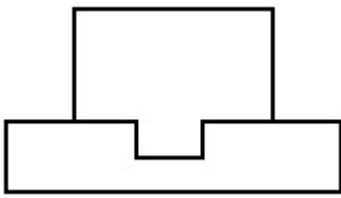


Options :

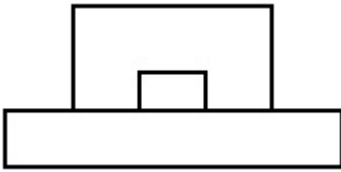
70819148163.



70819148164.



70819148165.



70819148166.

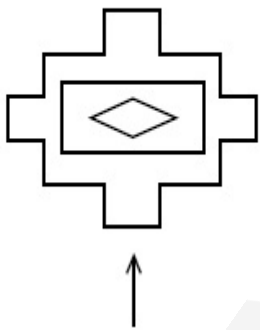


**Question Number : 55 Question Id : 70819114484 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

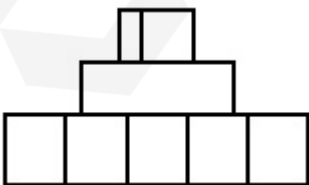
**Correct Marks : 4 Wrong Marks : 1**

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

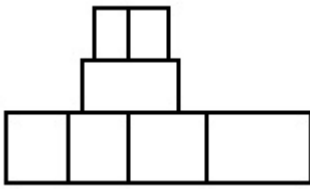


**Options :**

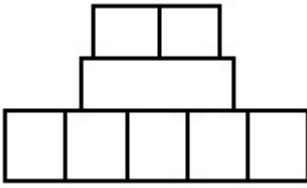
70819148167.



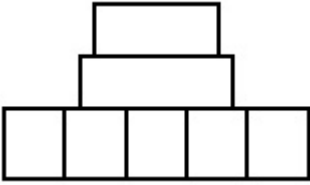
70819148168.



70819148169.



70819148170.

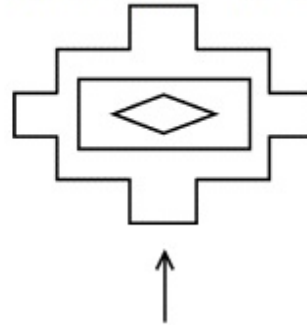


Question Number : 55 Question Id : 70819114484 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

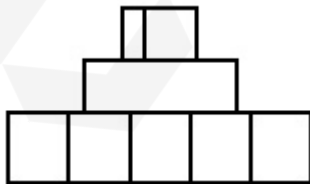
Correct Marks : 4 Wrong Marks : 1

اس سوالیہ نقشے میں ایک چیز کا اوپری نظارہ دکھایا گیا ہے۔ تیر کے نشان کی طرف سے دیکھنے پر دکھنے والا اس کا صحیح نظارہ کیا ہوگا؟

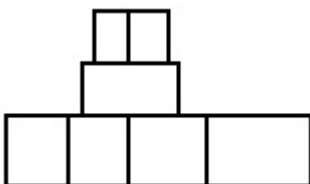


Options :

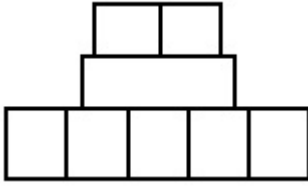
70819148167.



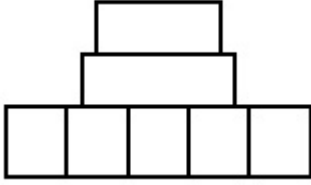
70819148168.



70819148169.



70819148170.

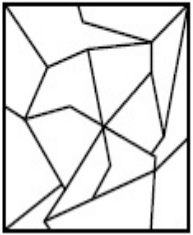


**Question Number : 56 Question Id : 70819114485 Question Type : MCQ Option Shuffling : Yes**

**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 :**

70819148171.



70819148172.



70819148173.



70819148174.

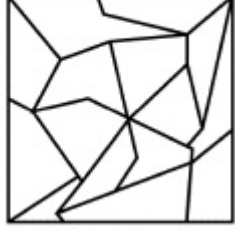


Question Number : 56 Question Id : 70819114485 Question Type : MCQ Option Shuffling : Yes

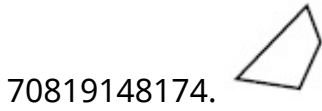
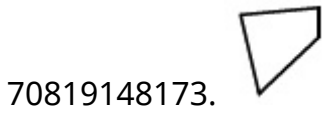
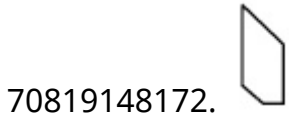
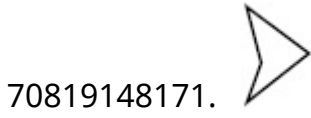
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کون سا ٹکڑا جوں کا توں نیچے دیئے گئے تصویر کا حصہ ہے :



Options :

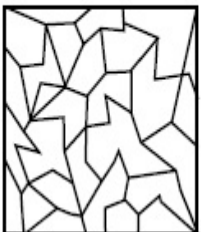


Question Number : 57 Question Id : 70819114486 Question Type : MCQ Option Shuffling : Yes


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 :

70819148175. 

70819148176. 

70819148177. 

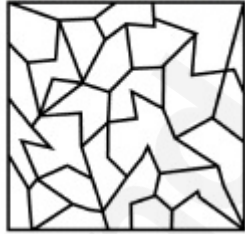
70819148178. 

Question Number : 57 Question Id : 70819114486 Question Type : MCQ Option Shuffling : Yes


Is Question Mandatory : No


Correct Marks : 4 Wrong Marks : 1


ان میں سے کونسا ٹکڑا جوں کاتوں نیچے دیئے گئے تصویر کا حصہ ہے ؟




Options :

70819148175. 

70819148176. 

70819148177. 

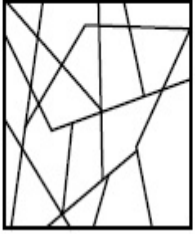
70819148178. 

Question Number : 58 Question Id : 70819114487 Question Type : MCQ Option Shuffling : Yes

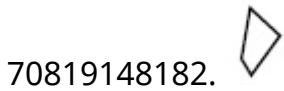
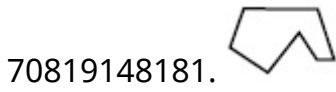
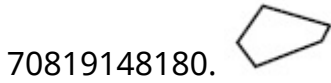
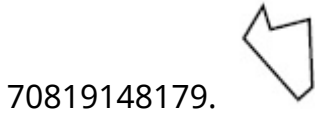
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

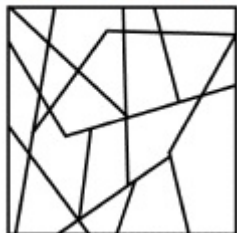


Question Number : 58 Question Id : 70819114487 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کونسا کلرزا جوں کاتوں نیچے دی گئی تصویر کا حصہ ہے ؟



Options :

70819148179.



70819148180.



70819148181.



70819148182.

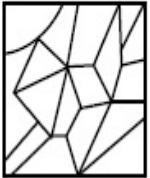


Question Number : 59 Question Id : 70819114488 Question Type : MCQ Option Shuffling : Yes

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 :

70819148183.



70819148184.



70819148185.



70819148186.



Question Number : 59 Question Id : 70819114488 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کونسا ٹکڑا جوں کاتوں نیچے دی گئی تصویر کا حصہ ہے ؟



Options :

70819148183.

70819148184.

70819148185.

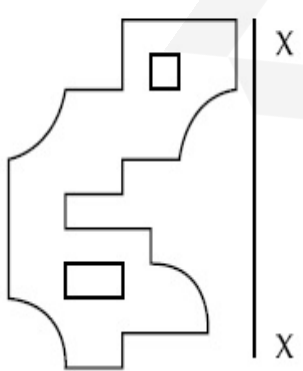
70819148186.

Question Number : 60 Question Id : 70819114489 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

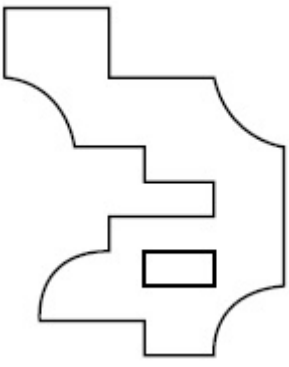
Correct Marks : 4 Wrong Marks : 1

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

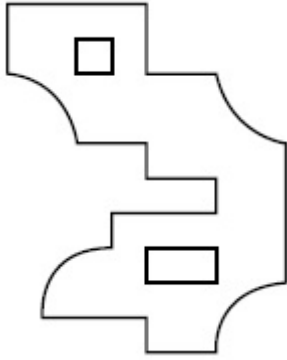


Options :

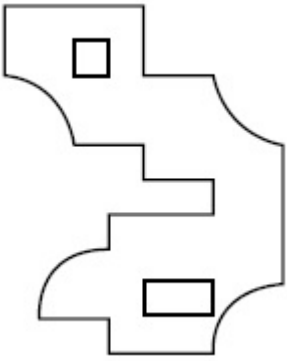
70819148187.



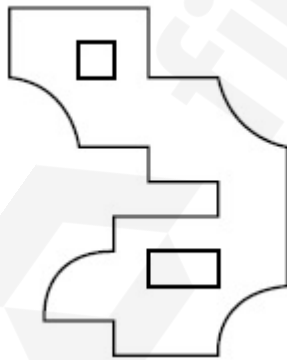
70819148188.



70819148189.

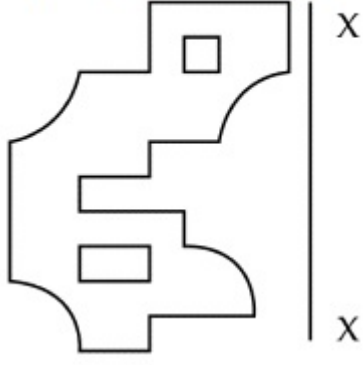


70819148190.

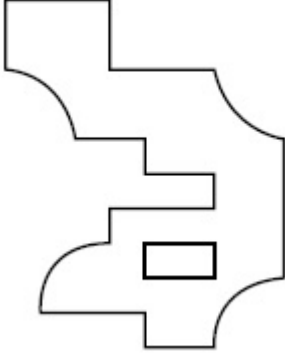


**Question Number : 60 Question Id : 70819114489 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No  
Correct Marks : 4 Wrong Marks : 1**

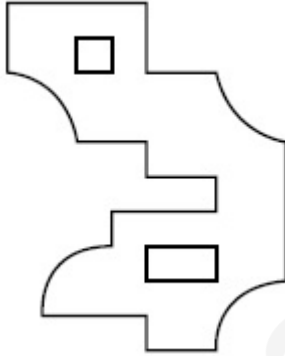
ان میں سے کونسا نقشہ دی ہوئی تصویر کا  $X-X$  کے متعلق صحیح عکس ہے ؟



Options :



70819148187.

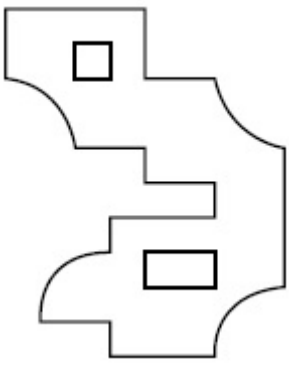


70819148188.



70819148189.

70819148190.

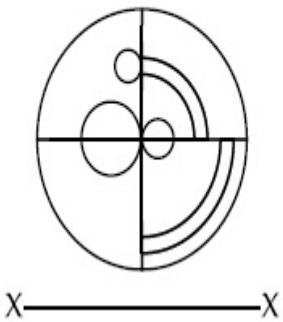


Question Number : 61 Question Id : 70819114490 Question Type : MCQ Option Shuffling : Yes

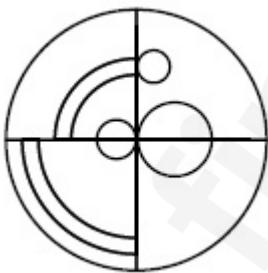
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

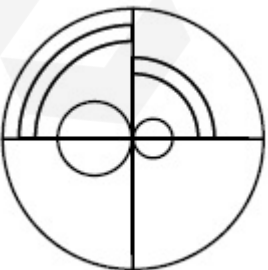
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



Options :

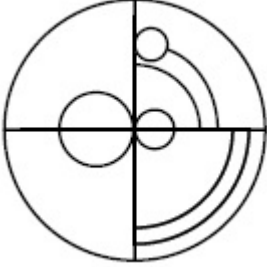
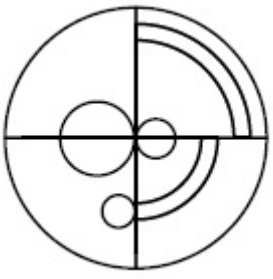


70819148191.



70819148192.

70819148193.



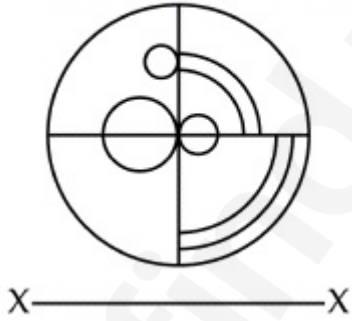
70819148194.

Question Number : 61 Question Id : 70819114490 Question Type : MCQ Option Shuffling : Yes

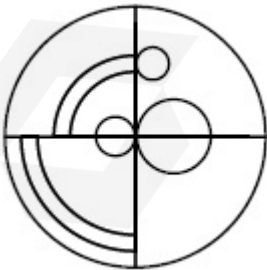
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان میں سے کونسا نقشہ دی ہوئی تصویر کا X-X کے متعلق صحیح عکس ہے ؟

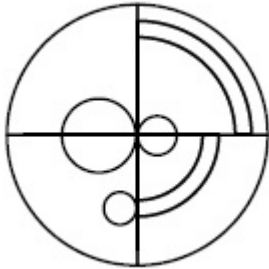
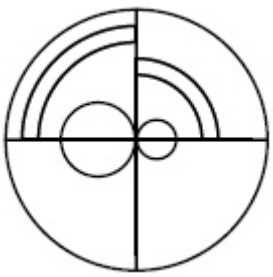


Options :

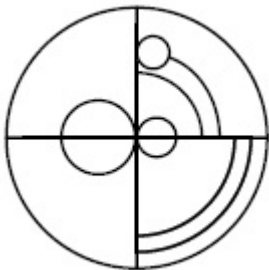


70819148191.

70819148192.



70819148193.



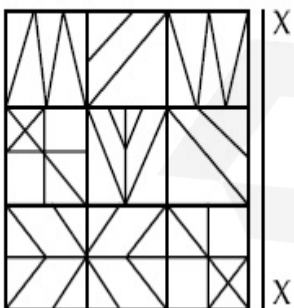
70819148194.

**Question Number : 62 Question Id : 70819114491 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

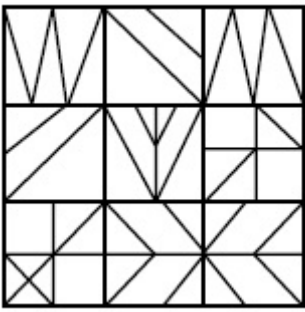
**Correct Marks : 4 Wrong Marks : 1**

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

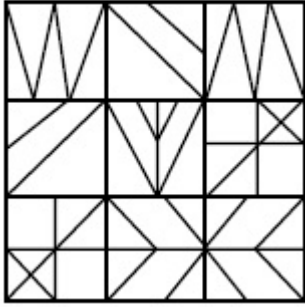


**Options :**

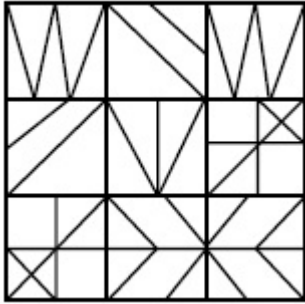
70819148195.



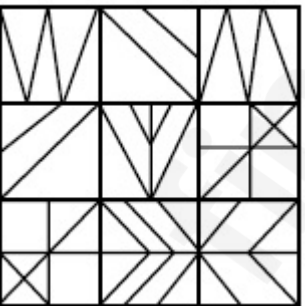
70819148196.



70819148197.



70819148198.

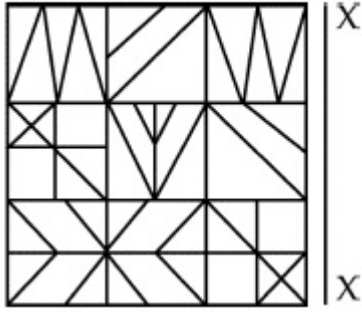


Question Number : 62 Question Id : 70819114491 Question Type : MCQ Option Shuffling : Yes

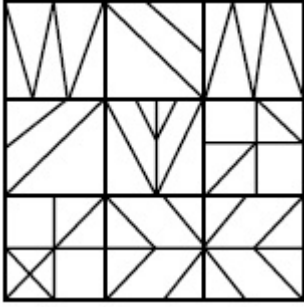
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

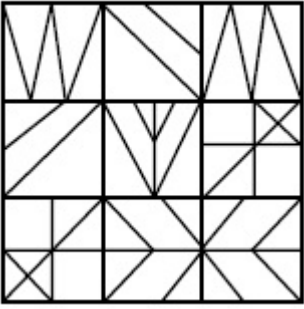
ان میں سے کونسا نقشہ دی ہوئی تصویر کا X-X کے متعلق صحیح عکس ہے؟



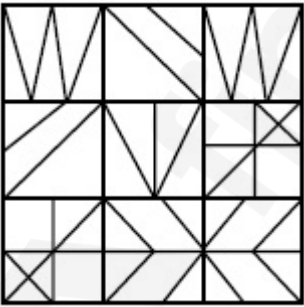
Options :



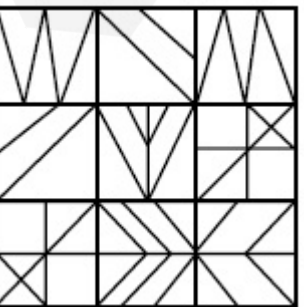
70819148195.



70819148196.



70819148197.



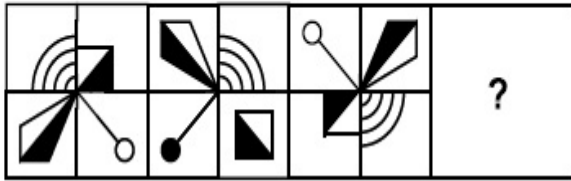
70819148198.

Question Number : 63 Question Id : 70819114492 Question Type : MCQ Option Shuffling : Yes

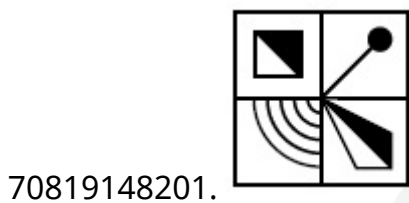
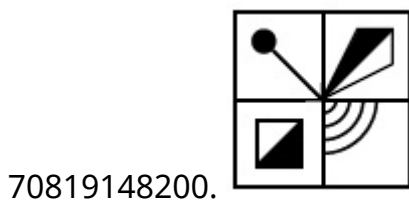
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Options :

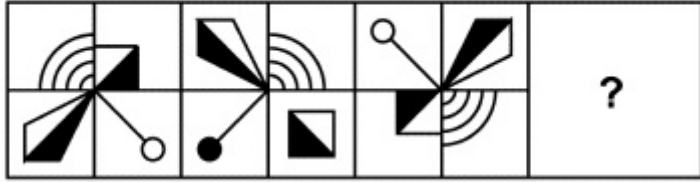


Question Number : 63 Question Id : 70819114492 Question Type : MCQ Option Shuffling : Yes

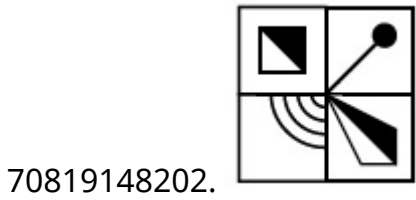
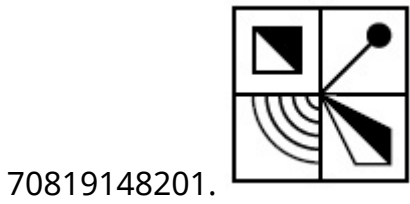
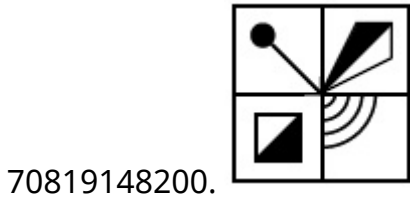
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

ان نقشوں میں سے کون سا نقشہ دیئے ہوئے سوالیہ نقشہ کے سلسلہ کو پورا کرتا ہے ؟



Options :

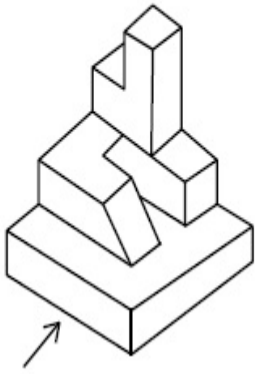


Question Number : 64 Question Id : 70819114493 Question Type : MCQ Option Shuffling : Yes

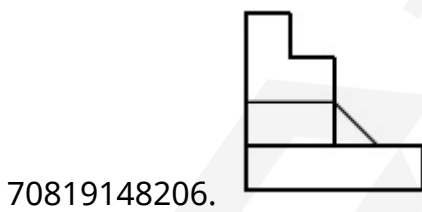
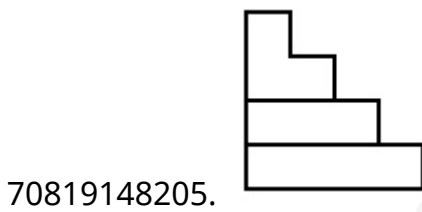
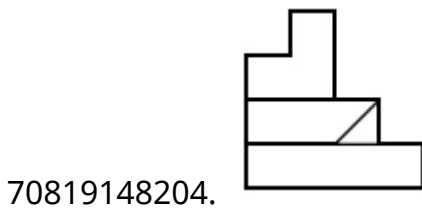
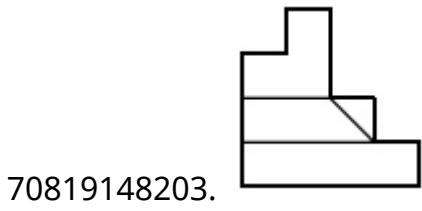
Is Question Mandatory : No

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 :

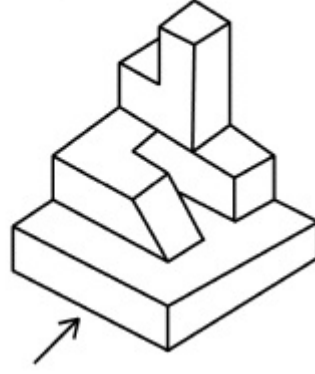


Question Number : 64 Question Id : 70819114493 Question Type : MCQ Option Shuffling : Yes

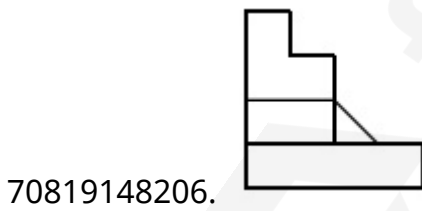
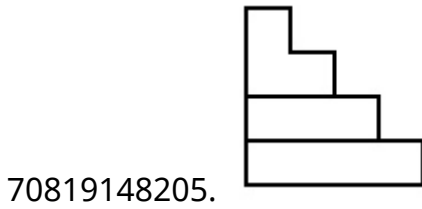
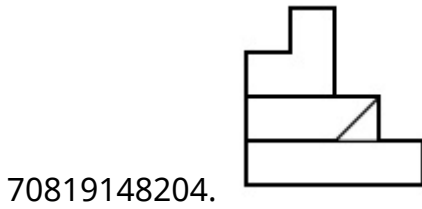
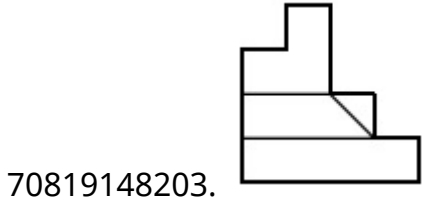
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا؟ ان میں سے صحیح جواب دیجئے۔



Options :

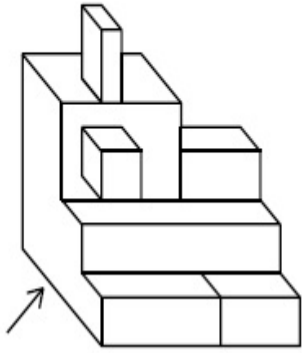


Question Number : 65 Question Id : 70819114494 Question Type : MCQ Option Shuffling : Yes

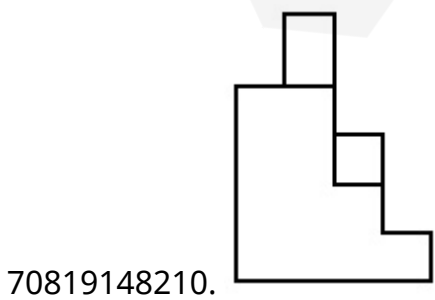
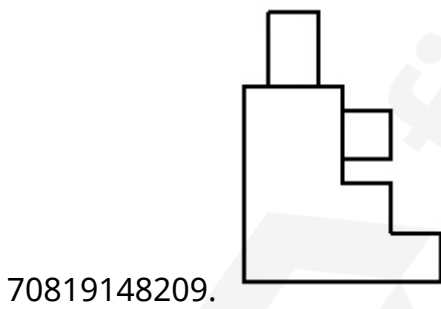
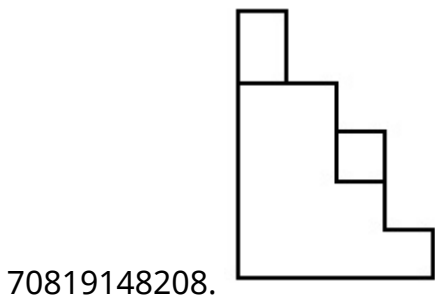
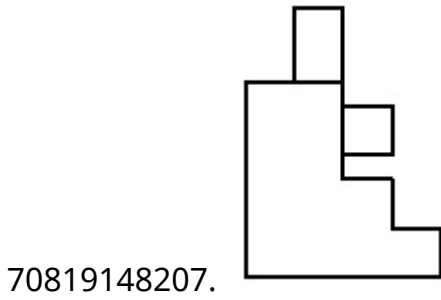
Is Question Mandatory : No

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 :

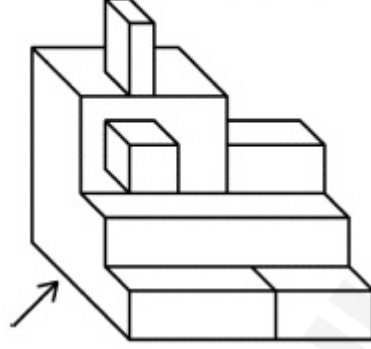


Question Number : 65 Question Id : 70819114494 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

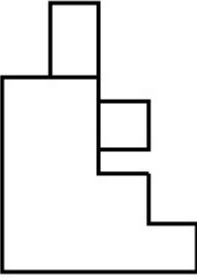
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا؟ ان میں سے صحیح جواب دیجئے۔

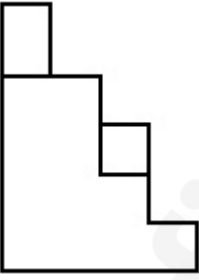


Options :

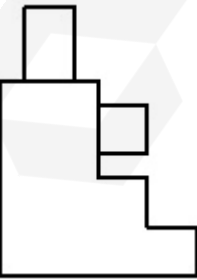
70819148207.



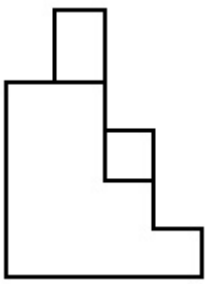
70819148208.



70819148209.



70819148210.

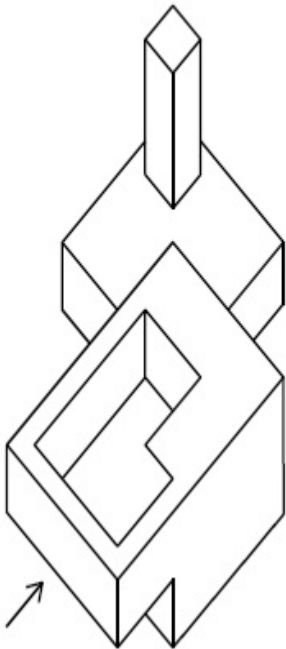


Question Number : 66 Question Id : 70819114495 Question Type : MCQ Option Shuffling : Yes

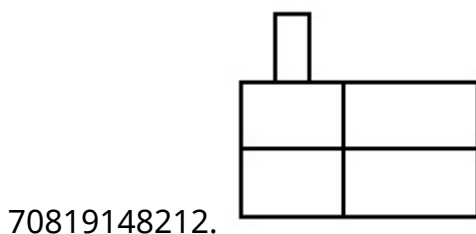
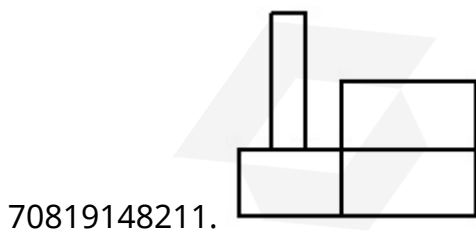
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

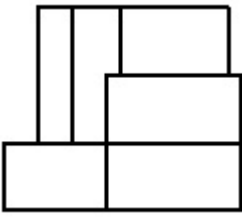
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



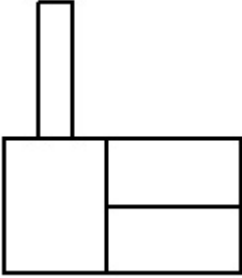
Options :



70819148213.



70819148214.



Question Number : 66 Question Id : 70819114495 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

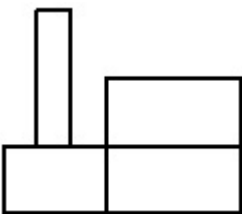
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا؟ ان میں سے صحیح جواب دیجئے۔

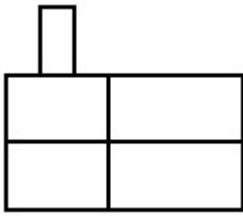


Options :

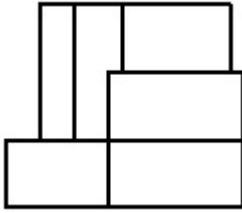
70819148211.



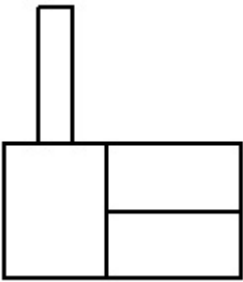
70819148212.



70819148213.



70819148214.

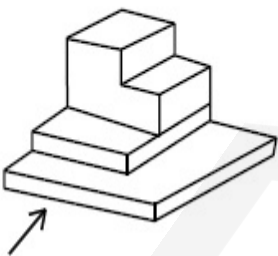


**Question Number : 67 Question Id : 70819114496 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

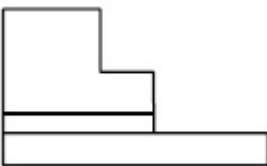
**Correct Marks : 4 Wrong Marks : 1**

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

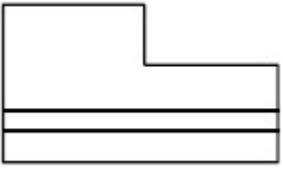


**Options :**

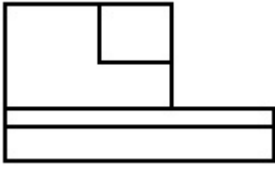
70819148215.



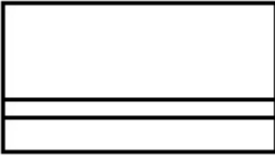
70819148216.



70819148217.



70819148218.

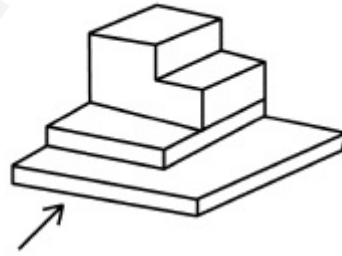


Question Number : 67 Question Id : 70819114496 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

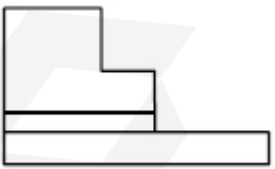
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کے نشان کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟ ان میں سے صحیح جواب دیجئے۔

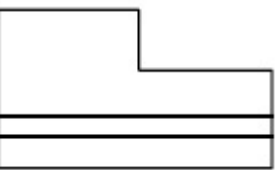


Options :

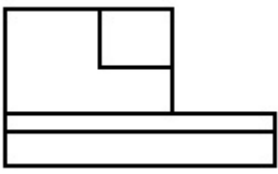
70819148215.



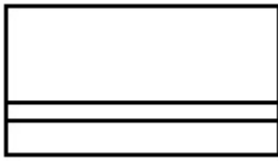
70819148216.



70819148217.



70819148218.

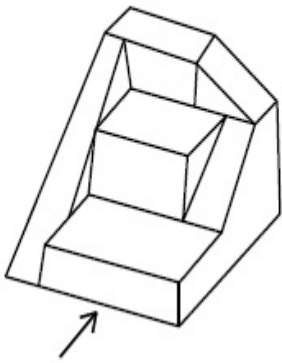


Question Number : 68 Question Id : 70819114497 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

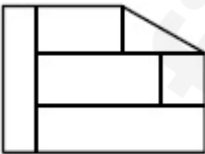
Correct Marks : 4 Wrong Marks : 1

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

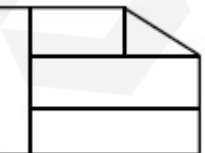


Options :

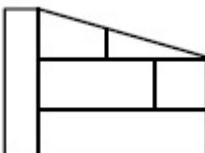
70819148219.



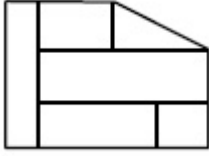
70819148220.



70819148221.



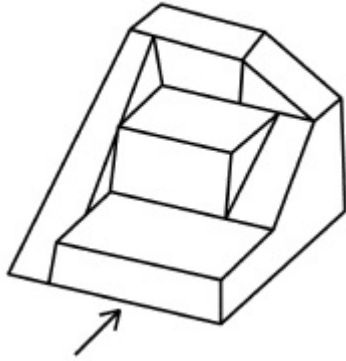
70819148222.



Question Number : 68 Question Id : 70819114497 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

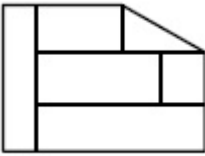
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سے ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟

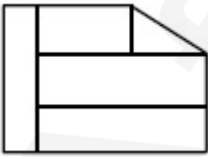


Options :

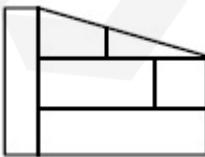
70819148219.



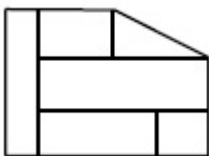
70819148220.



70819148221.



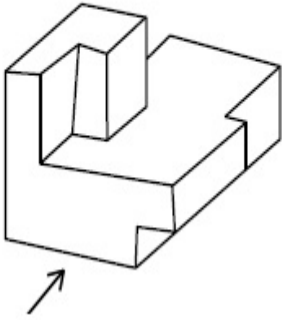
70819148222.



Question Number : 69 Question Id : 70819114498 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

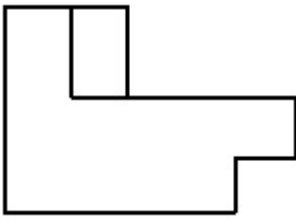
Correct Marks : 4 Wrong Marks : 1

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

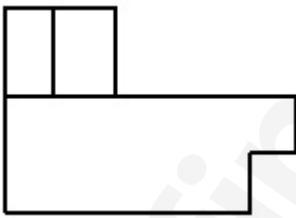


Options :

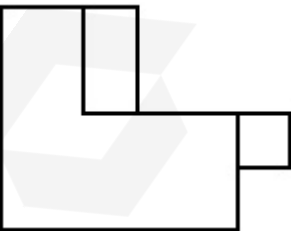
70819148223.

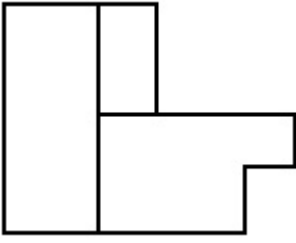


70819148224.



70819148225.





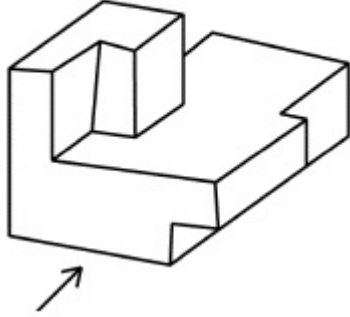
70819148226.

Question Number : 69 Question Id : 70819114498 Question Type : MCQ Option Shuffling : Yes

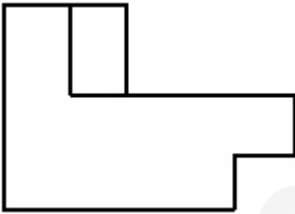
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

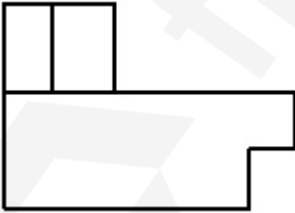
دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟



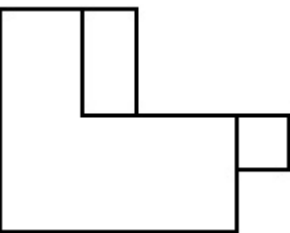
Options :



70819148223.

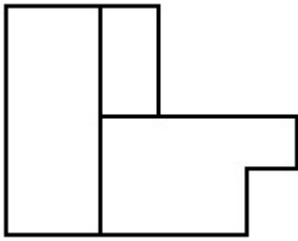


70819148224.



70819148225.

70819148226.

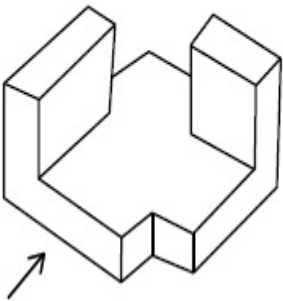


Question Number : 70 Question Id : 70819114499 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

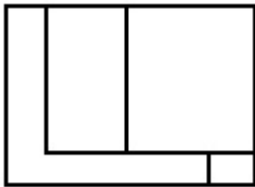
Correct Marks : 4 Wrong Marks : 1

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

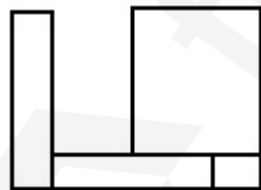


Options :

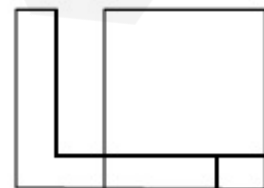
70819148227.



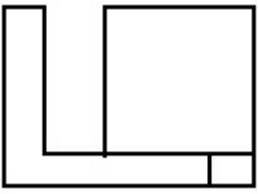
70819148228.



70819148229.



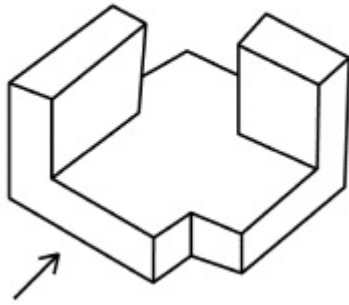
70819148230.



Question Number : 70 Question Id : 70819114499 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

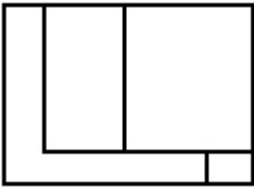
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟

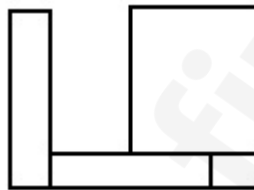


Options :

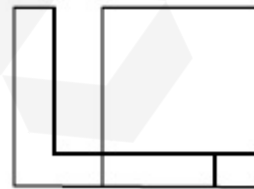
70819148227.



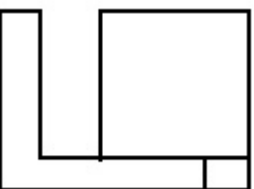
70819148228.



70819148229.



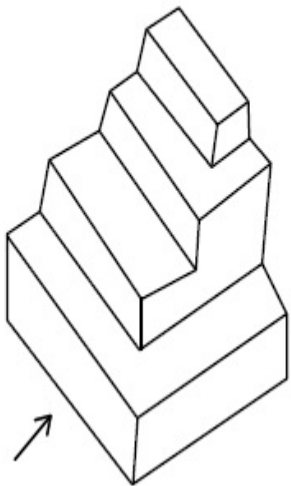
70819148230.



Question Number : 71 Question Id : 70819114500 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

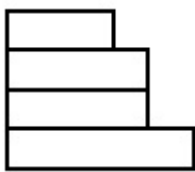
Correct Marks : 4 Wrong Marks : 1

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

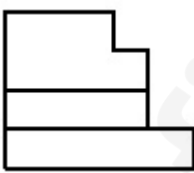


Options :

70819148231.



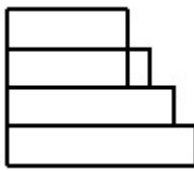
70819148232.



70819148233.



70819148234.

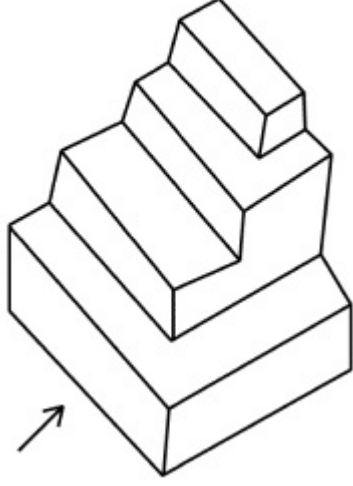


Question Number : 71 Question Id : 70819114500 Question Type : MCQ Option Shuffling : Yes

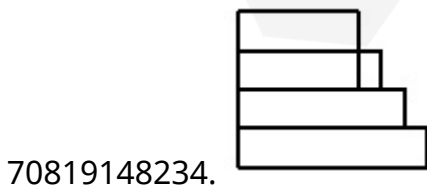
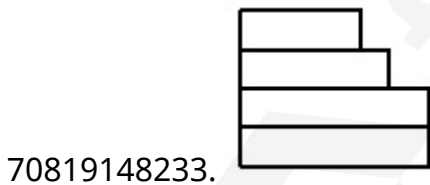
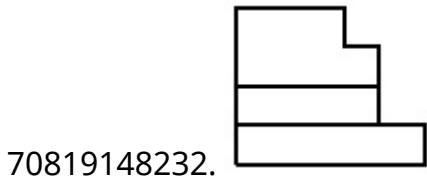
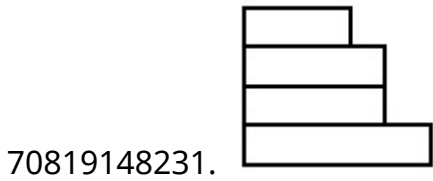
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟



Options :

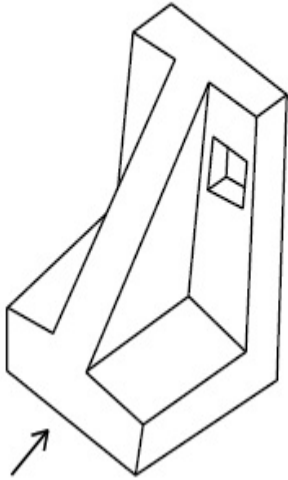


Question Number : 72 Question Id : 70819114501 Question Type : MCQ Option Shuffling : Yes

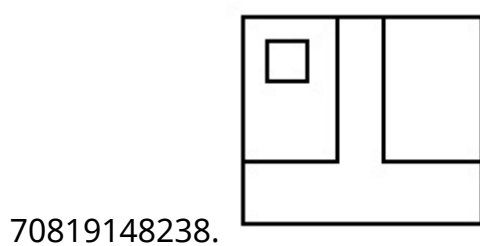
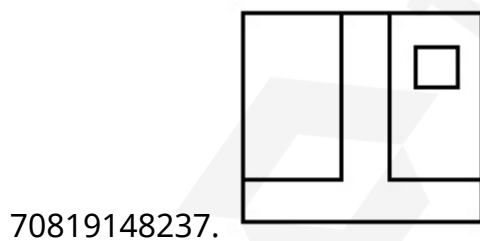
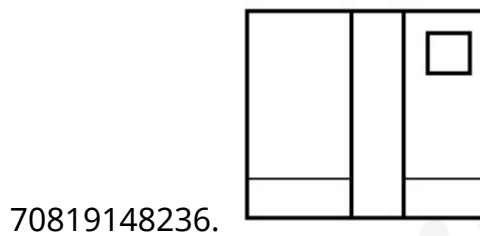
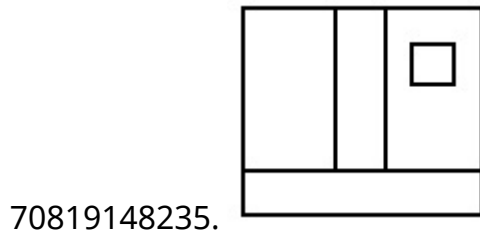
Is Question Mandatory : No

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 :

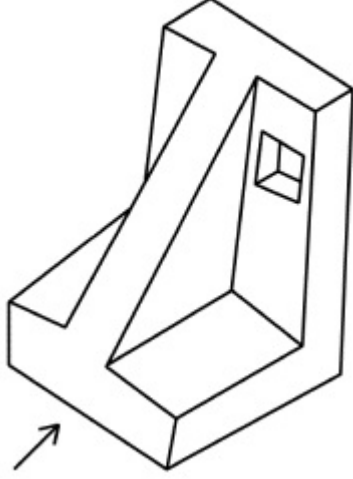


Question Number : 72 Question Id : 70819114501 Question Type : MCQ Option Shuffling : Yes

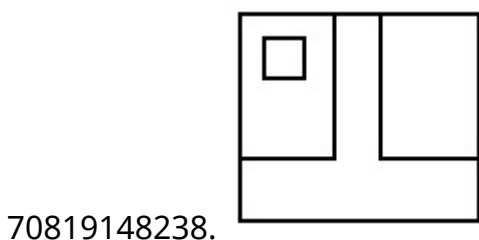
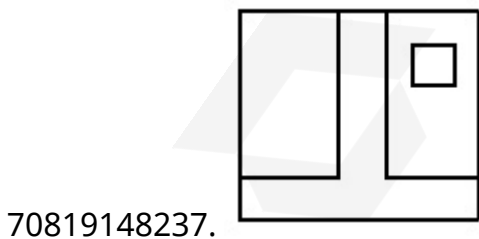
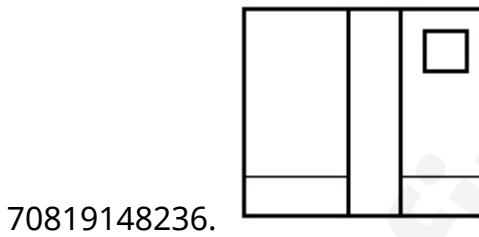
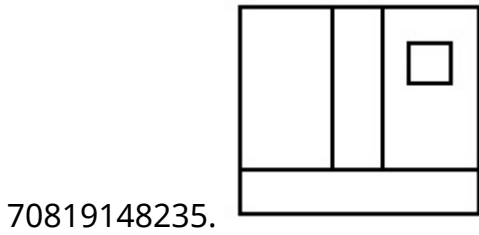
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟



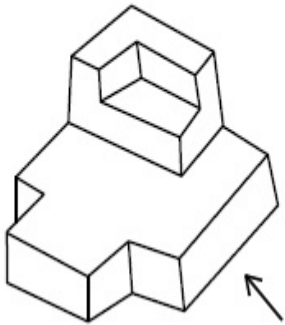
Options :



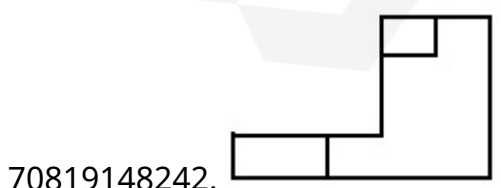
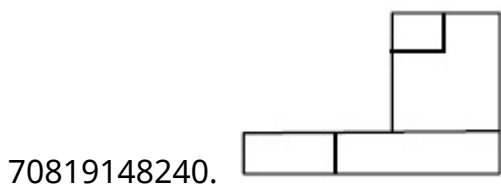
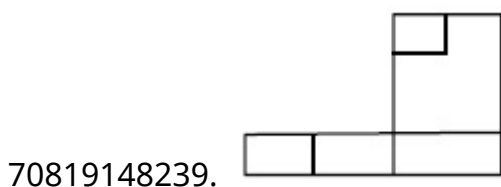
Question Number : 73 Question Id : 70819114502 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

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 :

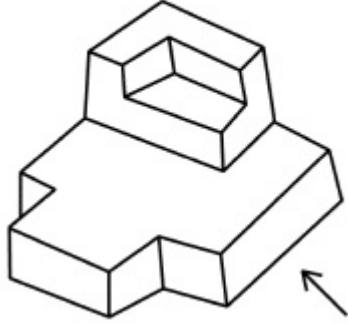


Question Number : 73 Question Id : 70819114502 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

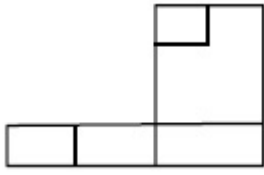
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا کیا ہوگا ؟

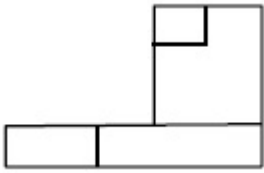


Options :

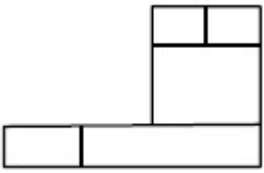
70819148239.



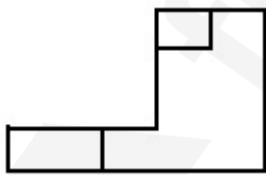
70819148240.



70819148241.



70819148242.

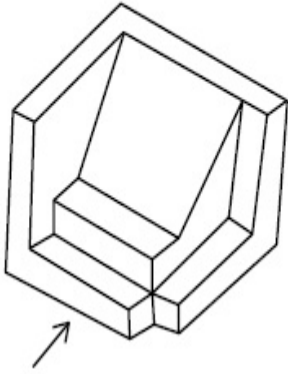


Question Number : 74 Question Id : 70819114503 Question Type : MCQ Option Shuffling : Yes

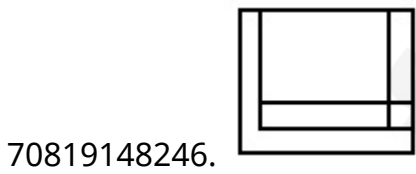
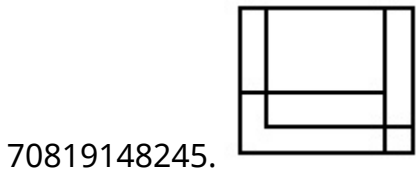
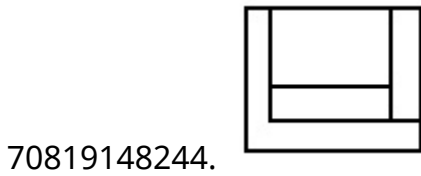
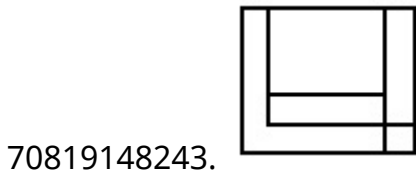
Is Question Mandatory : No

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 :

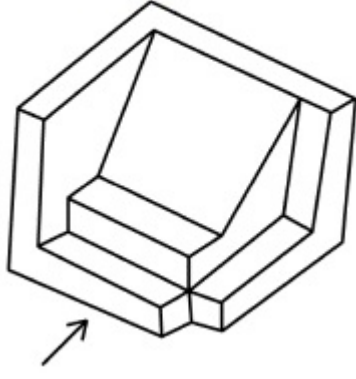


Question Number : 74 Question Id : 70819114503 Question Type : MCQ Option Shuffling : Yes

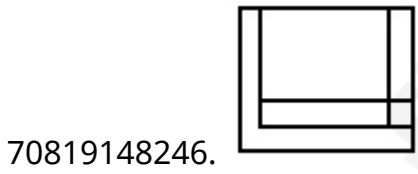
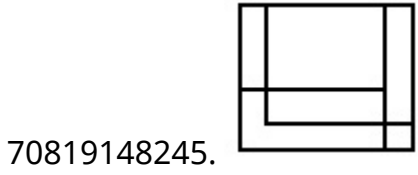
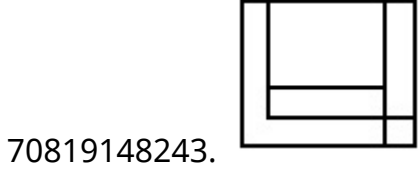
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟



Options :

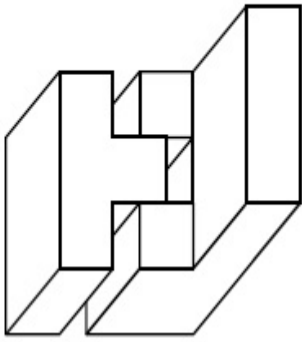


Question Number : 75 Question Id : 70819114504 Question Type : MCQ Option Shuffling : Yes

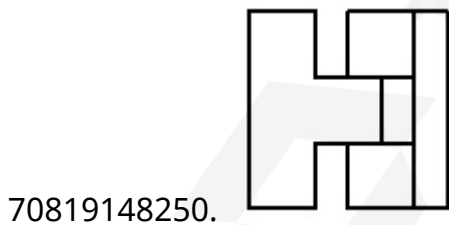
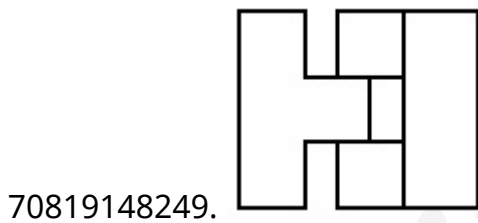
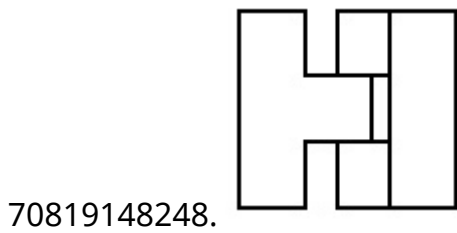
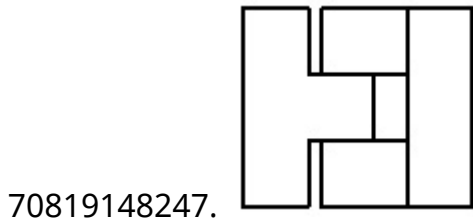
Is Question Mandatory : No

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 :

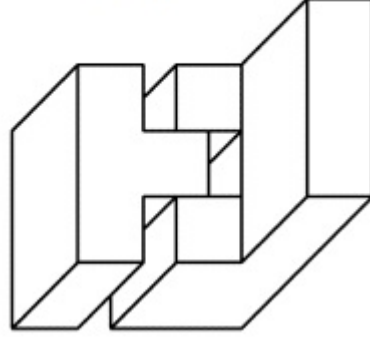


Question Number : 75 Question Id : 70819114504 Question Type : MCQ Option Shuffling : Yes

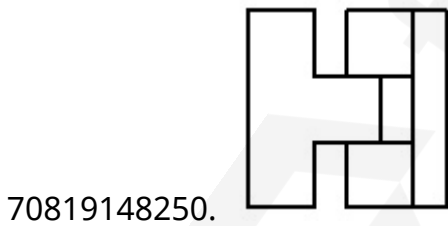
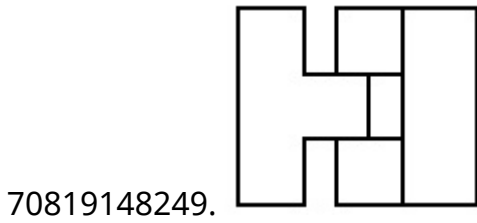
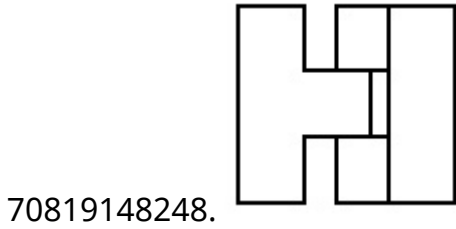
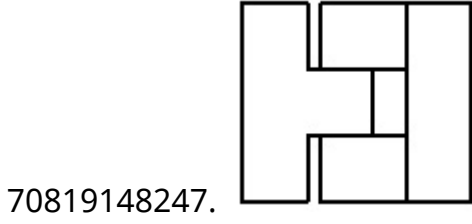
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا اوپر سے دکھائی دینے والا نظارہ کیا ہوگا؟ ان میں سے صحیح جواب دیجئے۔



Options :

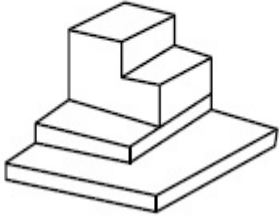


Question Number : 76 Question Id : 70819114505 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

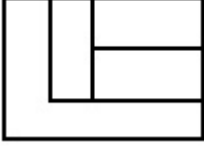
Correct Marks : 4 Wrong Marks : 1

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



Options :

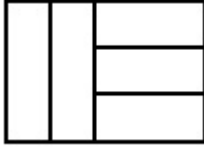
70819148251.



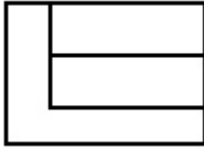
70819148252.



70819148253.



70819148254.

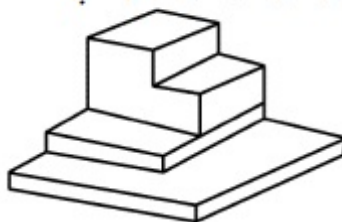


Question Number : 76 Question Id : 70819114505 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

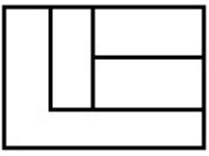
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا اوپر سے دکھائی دینے والا نظارہ کیا ہوگا؟ ان میں سے صحیح جواب دیجئے۔



Options :

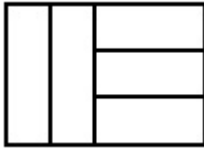
70819148251.



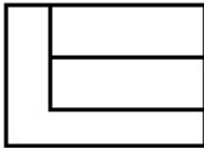
70819148252.



70819148253.



70819148254.

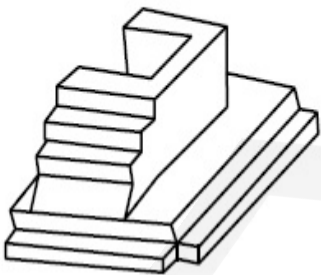


**Question Number : 77 Question Id : 70819114506 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

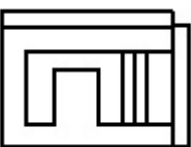
**Correct Marks : 4 Wrong Marks : 1**

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

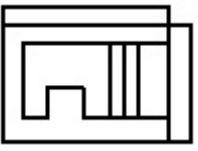


**Options :**

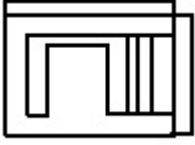
70819148255.



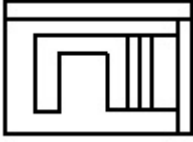
70819148256.



70819148257.



70819148258.

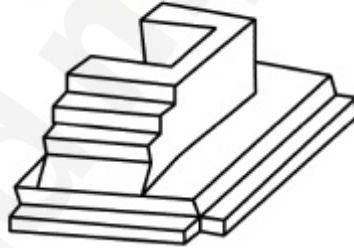


Question Number : 77 Question Id : 70819114506 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

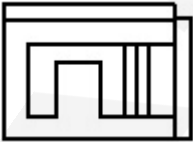
Correct Marks : 4 Wrong Marks : 1

دی ہوئی سہ ابعادی تصویر کا تیر کا اوپر سے دکھائی دینے والا نظارہ کیا ہوگا؟ ان میں سے صحیح جواب دیجئے۔

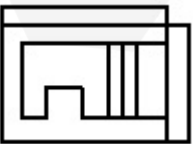


Options :

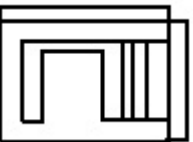
70819148255.



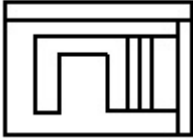
70819148256.



70819148257.



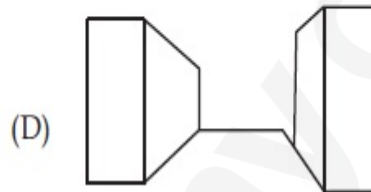
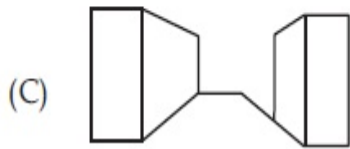
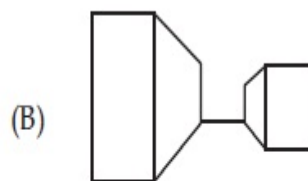
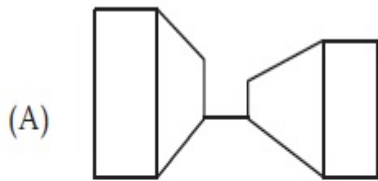
70819148258.



**Question Number : 78 Question Id : 70819114507 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 :**

70819148259. (A) and (B)

70819148260. (B) and (C)

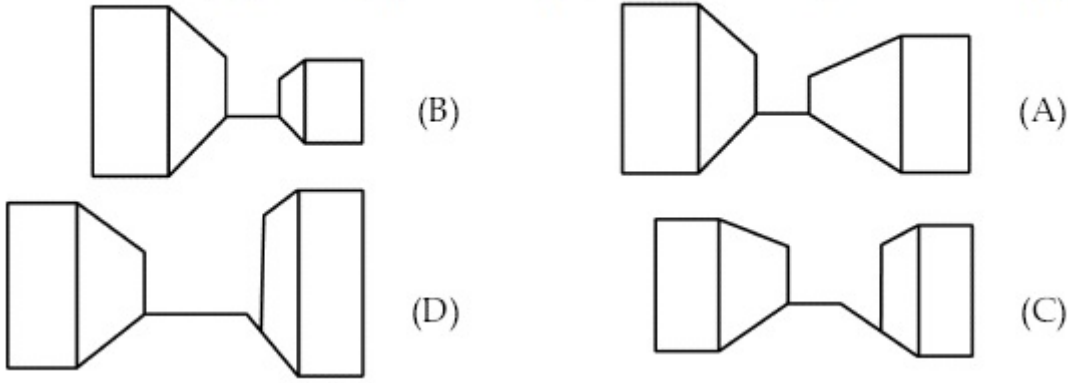
70819148261. (C) and (D)

70819148262. (D) and (A)

**Question Number : 78 Question Id : 70819114507 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

نیچے دی گئی منارت کی ترتیب میں کس میں سب سے کم کھینچاؤ دکھائی دے رہا ہے؟ صحیح جواب دیجئے۔



Options :

70819148259. (A) and (B)

70819148260. (B) and (C)

70819148261. (C) and (D)

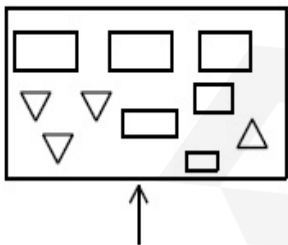
70819148262. (D) and (A)

Question Number : 79 Question Id : 70819114508 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

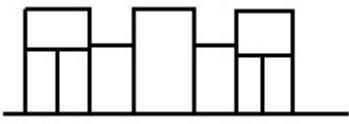
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



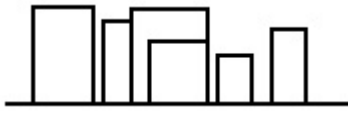
Options :



70819148264.



70819148265.



70819148266.

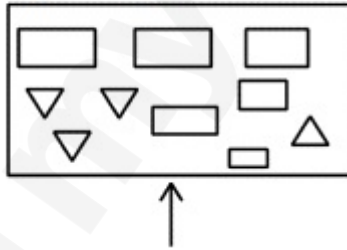


Question Number : 79 Question Id : 70819114508 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

سوالیہ نقشہ ایک چیز کا اوپری نظارہ ہے۔ اس چیز کو تیر کے نشان کی طرف سے دکھائی دینے والا نظارہ کیا ہوگا ؟



Options :

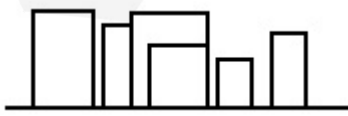
70819148263.



70819148264.



70819148265.



70819148266.

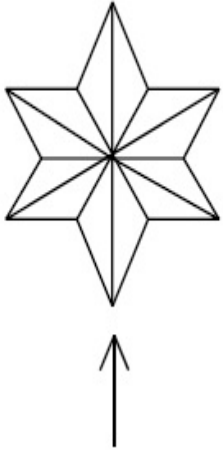


Question Number : 80 Question Id : 70819114509 Question Type : MCQ Option Shuffling : Yes

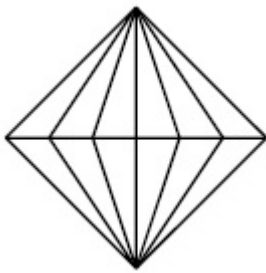
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

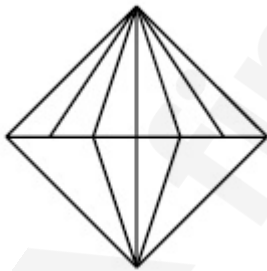
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



Options :



70819148267.

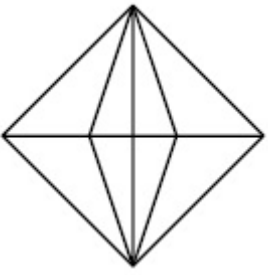


70819148268.



70819148269.

70819148270.

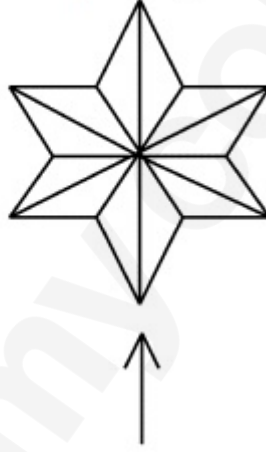


Question Number : 80 Question Id : 70819114509 Question Type : MCQ Option Shuffling : Yes

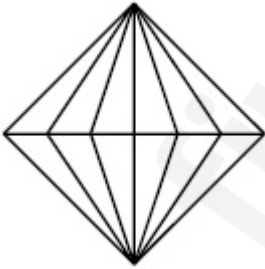
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

سوالیہ نقشہ ایک چیز کا اوپری نظارہ ہے۔ اس چیز کو تیر کے نشان کی طرف سے دیکھنے پر اس کا نظارہ کیا ہوگا ؟



Options :

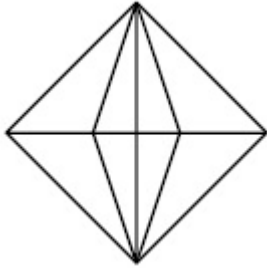
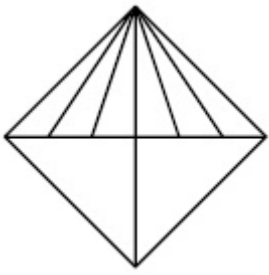


70819148267.



70819148268.

70819148269.



70819148270.

## Drawing

<b>Section Id :</b>	708191519
<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>	708191799
<b>Question Shuffling Allowed :</b>	No

**Question Number : 81 Question Id : 70819114510 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 : 70819114510 Question Type : SUBJECTIVE

Correct Marks : 50

اپنی پسند کے کسی بھی سیاہ و سفید تکنیک کا استعمال کر کے دی ہوئی تصویر ایک متناسب خاکہ بنائیے۔

یا

دی گئی تصویر کو سمجھ کر اور کسی بھی سیاہ و سفید تکنیک کا استعمال کر کے اپنے پسند کے فریم میں ایک متوازن (بیلنس) بناوٹ تیار کریئے۔



Question Number : 82 Question Id : 70819114511 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 : 70819114511 Question Type : SUBJECTIVE

Correct Marks : 50

رنگوں کا استعمال کر کے پتنگ تیار کا نظارہ بنائیے۔

یا

نیچے دی گئی دو قسم کی چیزوں کا استعمال کر کے ایک موافق سہ بصری بناوٹ بنائیے :

(i) مکعبی A : ناپ  $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$ ، نمبر 5 (گنتی میں)

(ii) مکعبی B : ناپ  $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$ ، نمبر 4 (گنتی میں)

بناوٹ کے لئے 'Cool Colorscheme' کا استعمال کریں۔