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| <b>Question Paper Name :</b> | B PLANNING H 23rd Feb 2021 Shift 2 |
| <b>Subject Name :</b>        | B PLANNING H                       |
| <b>Creation Date :</b>       | 2021-02-22 21:05:45                |
| <b>Duration :</b>            | 180                                |
| <b>Number of Questions :</b> | 105                                |
| <b>Total Marks :</b>         | 400                                |
| <b>Display Marks:</b>        | Yes                                |

## B PLANNING H

|                                      |           |
|--------------------------------------|-----------|
| <b>Group Number :</b>                | 1         |
| <b>Group Id :</b>                    | 708191139 |
| <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>     | 708191445 |
| <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 :                      | 708191725 |
| Question Shuffling Allowed :          | Yes       |

Question Number : 1 Question Id : 70819112897 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 :

70819142441.  $\frac{121}{3}$

70819142442.  $\frac{122}{3}$

70819142443.  $\frac{125}{3}$

70819142444.  $\frac{128}{3}$

Question Number : 1 Question Id : 70819112897 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

समाकलन  $\int_{-4}^4 |9-x^2| dx$  का मान है :

**Options :**

70819142441.  $\frac{121}{3}$

70819142442.  $\frac{122}{3}$

70819142443.  $\frac{125}{3}$

70819142444.  $\frac{128}{3}$

**Question Number : 2 Question Id : 70819112898 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 :**

70819142445.  $\frac{31}{13}$

70819142446.  $\frac{108}{13}$

70819142447.  $\frac{27}{2}$

70819142448.  $\frac{54}{7}$

**Question Number : 2 Question Id : 70819112898 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

एक गुणोत्तर श्रेणी के अनन्त पदों का योग 3 है तथा इसके पदों के वर्गों का योग  $\frac{9}{2}$  है, तो इसके पदों के घनों का योग है :

**Options :**

70819142445.  $\frac{31}{13}$

70819142446.  $\frac{108}{13}$

70819142447.  $\frac{27}{2}$

70819142448.  $\frac{54}{7}$

**Question Number : 3 Question Id : 70819112899 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 :**

70819142449.  $P \Leftrightarrow P \vee q$

70819142450.  $(P \wedge q) \Leftrightarrow P$

70819142451.  $(P \wedge (\sim P \vee q)) \vee (\sim q)$



70819142452.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 3 Question Id : 70819112899 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

निम्न में से कौन-सा बूलीय व्यंजक पुनरुक्ति है ?

**Options :**

70819142449.  $p \Leftrightarrow p \vee q$

70819142450.  $(p \wedge q) \Leftrightarrow p$

70819142451.  $(p \wedge (\sim p \vee q)) \vee (\sim q)$

70819142452.  $(p \vee \sim p) \wedge (q \vee (\sim q))$

**Question Number : 4 Question Id : 70819112900 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 :**

70819142453. a, b and c are in Arithmetic Progression

70819142454. a, b and c are in Geometric Progression

70819142455. a, 2b and c are in Arithmetic Progression

70819142456. a, b and c satisfy  $2b^2 = ac$

Question Number : 4 Question Id : 70819112900 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

माना  $|a| < 1, |b| < 1, |c| < 1$  हैं तथा  $x = \sum_{n=0}^{\infty} a^n, y = \sum_{n=0}^{\infty} b^n$  और  $z = \sum_{n=0}^{\infty} c^n$  हैं। यदि  $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$  समांतर श्रेणी में हैं, तो :

Options :

70819142453.  $a, b$  तथा  $c$  समांतर श्रेणी में हैं

70819142454.  $a, b$  तथा  $c$  गुणोत्तर श्रेणी में हैं

70819142455.  $a, 2b$  तथा  $c$  समांतर श्रेणी में हैं

70819142456.  $a, b$  तथा  $c, 2b^2 = ac$  को संतुष्ट करते हैं

Question Number : 5 Question Id : 70819112901 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

Options :

70819142457.  $15e + 5$

70819142458.  $15e - 5$

70819142459.  $16e - 5$

70819142460.  $16e - 7$

**Question Number : 5 Question Id : 70819112901 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$  बराबर है :

**Options :**

70819142457.  $15e + 5$

70819142458.  $15e - 5$

70819142459.  $16e - 5$

70819142460.  $16e - 7$

**Question Number : 6 Question Id : 70819112902 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 :**

70819142461.  $5$

70819142462.  $3$

70819142463.  $7$

70819142464.  $1$

**Question Number : 6 Question Id : 70819112902 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**

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

$\lambda$  का निम्नतम धनात्मक पूर्णांक मान, जिसके लिये  $10^{50} + (3 \times (4)^{52}) + \lambda$ , 9 से विभाज्य है, है :

**Options :**

70819142461. 5

70819142462. 3

70819142463. 7

70819142464. 1

**Question Number : 7 Question Id : 70819112903 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 :**

70819142465. 455

70819142466. 421

70819142467. 435

70819142468. 441

**Question Number : 7 Question Id : 70819112903 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

तीन समान्तर तथा समतलीय रेखाओं पर 4, 5 तथा 6 बिन्दु हैं। यदि चार या उससे अधिक बिन्दुओं का कोई भी समूह एक चक्र में नहीं है तथा तीन बिन्दुओं का कोई भी समूह, जो विभिन्न रेखाओं पर स्थित हैं, संरेख नहीं है, तो उन वृत्तों की संख्या, जो ठीक तीन बिन्दुओं से होकर जाते हैं, है।

**Options :**

70819142465. 455

70819142466. 421

70819142467. 435

70819142468. 441

**Question Number : 8 Question Id : 70819112904 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 :**

70819142469.  $a = 1, b = 0$

70819142470.  $a = 0, b = 1$

70819142471.  $a = 0, b = -1$

70819142472.  $a = -1, b = 1$

**Question Number : 8 Question Id : 70819112904 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No**

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

यदि  $y = \frac{ax - b}{(x - 1)(x - 4)}$  का एक चरम बिन्दु  $(2, -1)$  पर है, तो  $a$  तथा  $b$  के मान हैं :

**Options :**

70819142469.  $a = 1, b = 0$

70819142470.  $a = 0, b = 1$

70819142471.  $a = 0, b = -1$

70819142472.  $a = -1, b = 1$

**Question Number : 9 Question Id : 70819112905 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 :**

70819142473.  $\frac{9}{13}$

70819142474.  $\frac{15}{4}$

70819142475.  $\frac{13}{9}$

70819142476.  $\frac{1}{13}$

Question Number : 9 Question Id : 70819112905 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

दो समतलों  $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$  तथा  $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$  के बीच की दूरी है :

Options :

70819142473.  $\frac{9}{13}$

70819142474.  $\frac{15}{4}$

70819142475.  $\frac{13}{9}$

70819142476.  $\frac{1}{13}$

Question Number : 10 Question Id : 70819112906 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 :

70819142477.  $\frac{7}{20}$

70819142478.  $\frac{1}{20}$

70819142479.  $\frac{19}{20}$

70819142480.  $\frac{12}{20}$

**Question Number : 10 Question Id : 70819112906 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

दो विद्यार्थियों X तथा Y, के गणित के एक प्रश्न को हल करने की प्रायिकता क्रमशः  $\frac{1}{4}$  तथा  $\frac{1}{5}$  है। यदि दोनों उस प्रश्न को स्वतंत्र रूप से हल करने का प्रयत्न करते हैं, तो उस प्रश्न के उनमें से ठीक एक के द्वारा हल होने की प्रायिकता है :

**Options :**

70819142477.  $\frac{7}{20}$

70819142478.  $\frac{1}{20}$

70819142479.  $\frac{19}{20}$

70819142480.  $\frac{12}{20}$

**Question Number : 11 Question Id : 70819112907 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 :**

70819142481.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$



70819142482.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819142483.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819142484.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 11 Question Id : 70819112907 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

सम्मिश्र संख्या  $\frac{1+i}{1-i}$  का ध्रुवीय रूप है :

**Options :**

70819142481.  $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$

70819142482.  $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$

70819142483.  $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

70819142484.  $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$

**Question Number : 12 Question Id : 70819112908 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 :**

70819142485. <sup>2</sup>

70819142486. <sup>3</sup>

70819142487. <sup>4</sup>

70819142488. <sup>1</sup>

**Question Number : 12 Question Id : 70819112908 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

यदि उस रेखा का समीकरण, जो बिन्दुओं  $(1, 0)$  तथा  $(3, 0)$  को मिलाने वाले रेखाखंड को  $2 : 1$  के अनुपात में काटती है तथा इस पर लम्बवत भी है,  $ax = 7$  है, तो  $a$  का मान बराबर है :

**Options :**

70819142485. <sup>2</sup>

70819142486. <sup>3</sup>

70819142487. <sup>4</sup>

70819142488. <sup>1</sup>

**Question Number : 13 Question Id : 70819112909 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 :**

70819142489.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819142490.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819142491.  $2(x^2 + y^2) - x + y + 1 = 0$

70819142492.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 13 Question Id : 70819112909 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

रेखा,  $x + y = 2$  के सापेक्ष, वृत्त,  $x^2 + y^2 - 2x = 0$  के दर्पण प्रतिबिम्ब वृत्त का समीकरण है :

**Options :**

70819142489.  $x^2 + y^2 - 2x + 4y + 3 = 0$

70819142490.  $x^2 + y^2 - 4x - 2y + 4 = 0$

70819142491.  $2(x^2 + y^2) - x + y + 1 = 0$

70819142492.  $x^2 + y^2 - 2x - 4y + 3 = 0$

**Question Number : 14 Question Id : 70819112910 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 :**

70819142493.  $y+3=0$  and  $x-1=0$

70819142494.  $x-3=0$  and  $y+1=0$

70819142495.  $x+3=0$  and  $x-1=0$

70819142496.  $y+3=0$  and  $y-1=0$

**Question Number : 14 Question Id : 70819112910 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

दीर्घवृत्त  $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$  तथा वृत्त,  $(x+1)^2 + (y-1)^2 = 4$  की उभयनिष्ठ स्पर्श रेखाओं के समीकरण हैं।

**Options :**

70819142493.  $y+3=0$  तथा  $x-1=0$

70819142494.  $x-3=0$  तथा  $y+1=0$

70819142495.  $x+3=0$  तथा  $x-1=0$

70819142496.  $y+3=0$  तथा  $y-1=0$

**Question Number : 15 Question Id : 70819112911 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 :**

70819142497.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819142498.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819142499.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819142500.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

**Question Number : 15 Question Id : 70819112911 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

यदि  $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$  है, तो  $A^k (k \in \mathbb{N})$  बराबर है :

**Options :**

70819142497.  $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

70819142498.  $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

70819142499.  $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

70819142500.  $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

Question Number : 16 Question Id : 70819112912 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 :

70819142501.  $s=5, t=13$

70819142502.  $s \neq 5$

70819142503.  $s=5, t \neq 13$

70819142504.  $t \neq 13$

Question Number : 16 Question Id : 70819112912 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

$s$  तथा  $t$  के वे मान, जिनके लिए समीकरण निकाय

$$x_1 + x_2 + x_3 = 5$$

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

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

का कोई हल नहीं है, हैं

Options :

70819142501.  $s=5, t=13$

70819142502.  $s \neq 5$

70819142503.  $s=5, t \neq 13$

70819142504.  $t \neq 13$

**Question Number : 17 Question Id : 70819112913 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 :**

70819142505.  $1$

70819142506.  $-1$

70819142507.  $0$

70819142508.  $2$

**Question Number : 17 Question Id : 70819112913 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

अन्तराल  $(1, \infty)$  में,  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  का,  $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$  के सापेक्ष अवकलज है :

**Options :**

70819142505.  $1$

70819142506.  $-1$

70819142507.  $0$

70819142508. <sup>2</sup>

Question Number : 18 Question Id : 70819112914 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 :

70819142509.  $\frac{\pi}{6}$

70819142510.  $\frac{\pi}{4}$

70819142511.  $\frac{\pi}{3}$

70819142512.  $\frac{5\pi}{12}$

Question Number : 18 Question Id : 70819112914 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

माना  $\vec{a}$ ,  $\vec{b}$  तथा  $\vec{c}$  तीन सदिश हैं, जिनके लिए  $|\vec{a}| = |\vec{b}| = \frac{|\vec{c}|}{2} = 1$  हैं। यदि  $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$  है, तो

सदिशों  $\vec{a}$  तथा  $\vec{c}$  के बीच का न्यूनकोण है :

Options :



70819142509.  $\frac{\pi}{6}$

70819142510.  $\frac{\pi}{4}$

70819142511.  $\frac{\pi}{3}$

70819142512.  $\frac{5\pi}{12}$

**Question Number : 19 Question Id : 70819112915 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 :**

70819142513.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819142514.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819142515.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819142516.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

**Question Number : 19 Question Id : 70819112915 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

अवकल समीकरण  $(1+y^2)dx = (\tan^{-1}y - x)dy$  का हल है :  
(जबकि  $c$  एक स्वेच्छ अचर है)

**Options :**

70819142513.  $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

70819142514.  $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$

70819142515.  $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$

70819142516.  $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$

**Question Number : 20 Question Id : 70819112916 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 :**

70819142517.  $[-5, -4] \cup [4, 5]$

70819142518.  $[-5, 4] \cup (-4, 5]$

70819142519.  $(-5, -4) \cup (4, 5)$

70819142520.  $(-5, 4) \cup (-4, 5)$

**Question Number : 20 Question Id : 70819112916 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

$x$  के मान, जिनके लिए सदिश  $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$  निर्देशांक अक्षों की धनात्मक दिशाओं के साथ न्यूनकोण बनाते हैं, निम्न में से किस में स्थित हैं?

**Options :**

70819142517.  $[-5, -4] \cup [4, 5]$

70819142518.  $[-5, 4] \cup (-4, 5]$

70819142519.  $(-5, -4) \cup (4, 5)$

70819142520.  $(-5, 4) \cup (-4, 5)$

## Mathematics Section B

|                                       |           |
|---------------------------------------|-----------|
| Section Id :                          | 708191446 |
| 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 :                      | 708191726 |
| Question Shuffling Allowed :          | Yes       |

Question Number : 21 Question Id : 70819112917 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx$  is \_\_\_\_\_.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 21 Question Id : 70819112917 Question Type : SA**

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 22 Question Id : 70819112918 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 : 70819112918 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$9 \tan^2 \theta + 4 \cot^2 \theta$  का न्यूनतम मान है \_\_\_\_\_ ।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 23 Question Id : 70819112919 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 : 70819112919 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

बिन्दु  $(1, 2, 3)$  से रेखा  $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$  पर डाले गए लम्ब की लम्बाई है \_\_\_\_\_ ।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 24 Question Id : 70819112920 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 : 70819112920 Question Type : SA**

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

यदि  $\log_3 2, \log_3 (2^x - 5)$  तथा  $\log_3 \left( 2^x - \frac{7}{2} \right)$  समांतर श्रेणी में हैं, तो  $x$  बराबर है \_\_\_\_\_।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

Question Number : 25 Question Id : 70819112921 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

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

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 25 Question Id : 70819112921 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

यदि  $x^2 + x + 1 = 0$  है, तो  $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$  बराबर है \_\_\_\_\_।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.001

Question Number : 26 Question Id : 70819112922 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 :** 70819112922 **Question Type :** SA

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

बिन्दु (4, 5) से वृत्त  $x^2 + y^2 - 4x - 2y - 11 = 0$  पर खींची गई स्पर्श रेखाएं, दो त्रिज्याओं के साथ एक चतुर्भुज बनाती हैं। इस चतुर्भुज का क्षेत्रफल, वर्ग इकाइयों, में है \_\_\_\_\_।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 27 **Question Id :** 70819112923 **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 : 70819112923 Question Type : SA**

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

यदि एक द्विपद बंटन के माध्य तथा प्रसरण का योग 15 है और उनके वर्गों का योग 117 है, तो स्वतंत्र अभिप्रयोगों की संख्या है \_\_\_\_\_।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 28 Question Id : 70819112924 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 : 70819112924 Question Type : SA**

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

माना एक समतल, जो बिन्दुओं  $(1, 2, 6)$  तथा  $(2, 5, 7)$  से होकर जाता है तथा समतल,  $4x - y + z = 15$  के लम्बवत है, का समीकरण  $ax + by + cz + d = 0$  है। यदि  $a, b, c, d \in \mathbb{Z}$  तथा  $\gcd(|a|, |b|, |c|) = 1$  हैं, तो  $|a + b + c + d|$  बराबर है \_\_\_\_\_।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 29 Question Id : 70819112925 Question Type : SA**

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number : 29 Question Id : 70819112925 Question Type : SA**

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

अन्तराल  $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$  में, समीकरण  $4\sin^2 x - 8\sin x + 3 = 0$  के वास्तविक हलों की संख्या है \_\_\_\_\_।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 30 **Question Id :** 70819112926 **Question Type :** SA

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

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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

**Question Number :** 30 **Question Id :** 70819112926 **Question Type :** SA

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

माना  $A_1, A_2, A_3, \dots$  एक वर्धमान गुणोत्तर श्रेणी है। यदि  $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$  तथा  $A_5 A_7 = 441$  हैं, तो  $3(A_2 + A_4)$  बराबर है \_\_\_\_\_।

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Range

**Text Areas :** PlainText

**Possible Answers :**

5 to 5.001

## Aptitude Test

|                                       |           |
|---------------------------------------|-----------|
| Section Id :                          | 708191447 |
| 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 :                      | 708191727 |
| Question Shuffling Allowed :          | Yes       |

Question Number : 31 Question Id : 70819112927 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 :

70819142531. United Nations Educational, Scientific & Cultural Organization.

70819142532. United Nations Educational Security Cultural Organization.

70819142533. United Nations Entrance Site Calling Organization.

70819142534. United Nations Educational, Sustainable & Cultural Organization.

Question Number : 31 Question Id : 70819112927 Question Type : MCQ Option Shuffling : Yes

**Is Question Mandatory : No**

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

निम्न में से 'UNESCO' का पूर्ण रूप (Full form) कौन सा है ?

**Options :**

70819142531. युनाइटेड नेशंस एडुकेशनल, साइंटिफिक तथा कल्चरल ऑर्गनाइजेशन

70819142532. युनाइटेड नेशंस एडुकेशनल सिविलिटी कल्चरल ऑर्गनाइजेशन

70819142533. युनाइटेड नेशंस एंट्रैन्स साइट कालिंग ऑर्गनाइजेशन

70819142534. युनाइटेड नेशंस एडुकेशनल, सस्टेनेबल तथा कल्चरल ऑर्गनाइजेशन

**Question Number : 32 Question Id : 70819112928 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 :**

70819142535. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819142536. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819142537. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)



Question Number : 32 Question Id : 70819112928 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न सूची I को सूची II से मिलाइये।  
सूची I

सूची II

(I) हॉल ऑफ नेशन

(a)



(II) फालिंग वॉटर, पेनसिलवानिया

(b)



(III) पेट्रोनास टॉवर

(c)



(IV) सचिवालय

(d)



**Options :**

70819142535. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

70819142536. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819142537. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819142538. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 33 Question Id : 70819112929 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 :**

70819142539. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819142540. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819142541. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819142542. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 33 Question Id : 70819112929 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**



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

निम्न सूची I को सूची II से मिलाइये।

| सूची I              | सूची II                     |
|---------------------|-----------------------------|
| (I) कामरू           | (a) विक्टोरिया मेमोरियल हॉल |
| (II) दिल्ली         | (b) बद्रीनाथ मंदिर          |
| (III) फतेहपुर सीकरी | (c) खिड़की मस्जिद           |
| (IV) कोलकाता        | (d) बुलन्द दरवाजा           |

**Options :**

70819142539. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819142540. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

70819142541. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

70819142542. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

**Question Number : 34 Question Id : 70819112930 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Match List - I with List - II.

List - I

List - II

(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



Options :

70819142543. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819142544. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819142545. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819142546. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

Question Number : 34 Question Id : 70819112930 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न सूची I को सूची II से मिलाइये।  
सूची I

सूची II

(I) आगरा का किला

(a)



(II) अटाला मस्जिद

(b)



(III) नालन्दा विश्वविद्यालय

(c)



(IV) जगन्नाथ मन्दिर

(d)



Options :

70819142543. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

70819142544. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

70819142545. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

70819142546. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

**Question Number : 35 Question Id : 70819112931 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 :**

70819142547. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819142548. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819142549. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819142550. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 35 Question Id : 70819112931 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

निम्न सूची I को सूची II से मिलाइये।

| सूची I                | सूची II    |
|-----------------------|------------|
| (I) यादविन्द्र गार्डन | (a) मनाली  |
| (II) विष्णु मन्दिर    | (b) अमृतसर |
| (III) हिडिम्बा मन्दिर | (c) पिंजोर |
| (IV) हरि मन्दिर       | (d) बुनियर |

**Options :**

70819142547. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

70819142548. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

70819142549. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

70819142550. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

**Question Number : 36 Question Id : 70819112932 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 :**

70819142551. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819142552. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819142553. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)



70819142554. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 36 Question Id : 70819112932 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्न सूची I को सूची II से मिलाइये।

| सूची I              | सूची II      |
|---------------------|--------------|
| (I) मेहरानगढ़ किला  | (a) हैदराबाद |
| (II) सीरी फोर्ट     | (b) कोलकाता  |
| (III) गोलकोंडा किला | (c) दिल्ली   |
| (IV) फोर्ट विलियम   | (d) जोधपुर   |

नीचे दिए विकल्पों में से सही उत्तर चुनिये।

**Options :**

70819142551. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

70819142552. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

70819142553. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

70819142554. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

**Question Number : 37 Question Id : 70819112933 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 :**

70819142555. B.V. Doshi

70819142556. Arundhati Roy

70819142557. Revati Kamat

70819142558. Bimal Patel

**Question Number : 37 Question Id : 70819112933 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘गॉड ऑफ स्माल थिंग्स’ पुस्तक को किस भारतीय वास्तुशिल्पी ने लिखा है ?

**Options :**

70819142555. बी.वी. दोशी

70819142556. अरुंधती राय

70819142557. रेवती कामत

70819142558. बिमल पटेल

**Question Number : 38 Question Id : 70819112934 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 :**

70819142559. Gujarat

70819142560. West Bengal

70819142561. Tamil Nadu

70819142562. Rajasthan

**Question Number : 38 Question Id : 70819112934 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘झरोखा’ खिड़की का एक प्रकार, निम्न में से अक्सर किस प्रान्त में पाया जाता है ?

**Options :**

70819142559. गुजरात

70819142560. पश्चिम बंगाल

70819142561. तमिलनाडु

70819142562. राजस्थान

**Question Number : 39 Question Id : 70819112935 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 :**

70819142563. North-West side

70819142564. South-East side

70819142565. North side

70819142566. South-West side



**Question Number : 39 Question Id : 70819112935 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

भारत उपमहाद्वीप में मौनसून हवा किस दिशा से प्रवेश करती है ?

**Options :**

70819142563. उत्तर-पश्चिम दिशा

70819142564. दक्षिण-पूर्व दिशा

70819142565. उत्तर दिशा

70819142566. दक्षिण-पश्चिम दिशा

**Question Number : 40 Question Id : 70819112936 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 :**

70819142567. Bharat Bhavan in Bhopal

70819142568. LIC Building in Delhi

70819142569. Charminar in Hyderabad

70819142570. Victoria Memorial in Kolkata

**Question Number : 40 Question Id : 70819112936 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्न में से कौनसी इमारत, भारत में 'औपनिवेशिक वास्तु' संबंधी ढंग दर्शाती है ?

**Options :**

70819142567. भोपाल का भारत भवन

70819142568. दिल्ली की LIC इमारत

70819142569. हैदराबाद का चारमिनार

70819142570. कोलकाता का विक्टोरिया मेमोरियल

**Question Number : 41 Question Id : 70819112937 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 :**

70819142571.  $420 \times 590$  (mm  $\times$  mm)

70819142572.  $420 \times 594$  (mm  $\times$  mm)

70819142573.  $297 \times 420$  (mm  $\times$  mm)

70819142574.  $420 \times 592$  (mm  $\times$  mm)

**Question Number : 41 Question Id : 70819112937 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

A2 ड्राइंग शीट का आकार है :

**Options :**

70819142571.  $420 \times 590$  (mm  $\times$  mm)

70819142572.  $420 \times 594$  (mm  $\times$  mm)

70819142573.  $297 \times 420$  (mm  $\times$  mm)

70819142574.  $420 \times 592$  (mm  $\times$  mm)

**Question Number : 42 Question Id : 70819112938 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 :**

70819142575. Chittor fort

70819142576. Jaigarh fort

70819142577. Bhangarh fort

70819142578. Amer fort

**Question Number : 42 Question Id : 70819112938 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘विक्टरी टॉवर’ निम्न में से किस फोर्ट से सम्बंधित है ?

**Options :**

70819142575. चित्तौड़ फोर्ट

70819142576. जयगढ़ फोर्ट

70819142577. भानगढ़ फोर्ट

70819142578. आमेर फोर्ट

**Question Number : 43 Question Id : 70819112939 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 :**

70819142579. Sanjay Puri

70819142580. Vikram Lall

70819142581. Ashok Lall

70819142582. C. Sompura

**Question Number : 43 Question Id : 70819112939 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

सुप्रसिद्ध मन्दिर 'अक्षरधाम' की रूपरेखा निम्न में से किस वास्तुशिल्पी ने बनाई ?

**Options :**

70819142579. संजय पुरी

70819142580. विक्रम लाल

70819142581. अशोक लाल

70819142582. सी. सोमपुरा

**Question Number : 44 Question Id : 70819112940 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘Volume Zero’ Documentary is on which Architect ?

**Options :**

70819142583. Charles Correa

70819142584. Richard Mier

70819142585. Jasbir Sachdev

70819142586. Ranjit Sabliki

**Question Number : 44 Question Id : 70819112940 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘वालयूम ज़ीरो’ वृत्तचित्र निम्न में से किस वास्तुशिल्पी पर आधारित है ?

**Options :**

70819142583. चार्ल्स कोरिया

70819142584. रिचर्ड मीयर

70819142585. जसबीर सचदेव

70819142586. रंजीत सबलीकी

Question Number : 45 Question Id : 70819112941 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Agenda 21' is declaration related with :

Options :

70819142587. Climate change

70819142588. Global warming

70819142589. Sustainable development

70819142590. Smart city

Question Number : 45 Question Id : 70819112941 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

घोषणा 'एजेन्डा- 21' निम्न में से किस से संबन्धित है?

Options :

70819142587. जलवायु परिवर्तन

70819142588. वैश्विक वार्मिंग

70819142589. संधारणीय विकास

70819142590. स्मार्ट सिटी

**Question Number : 46 Question Id : 70819112942 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 :**

70819142591. ☐ Karnataka

70819142592. ☐ Orissa

70819142593. ☐ Maharashtra

70819142594. ☐ Uttar Pradesh

**Question Number : 46 Question Id : 70819112942 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्न में से भारत के किस प्रांत में सोने की खानें हैं ?

**Options :**

70819142591. ☐ कर्नाटक

70819142592. ☐ ओड़ीशा

70819142593. ☐ महाराष्ट्र

70819142594. ☐ उत्तर प्रदेश

**Question Number : 47 Question Id : 70819112943 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 :**

70819142595. North

70819142596. South

70819142597. East

70819142598. West

**Question Number : 47 Question Id : 70819112943 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

दक्षिण गोलार्द्ध में परछाई रहित प्रकाश किस दिशा से आता है ?

**Options :**

70819142595. उत्तर

70819142596. दक्षिण

70819142597. पूर्व

70819142598. पश्चिम

**Question Number : 48 Question Id : 70819112944 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 :**



70819142599. B.V. Doshi
70819142600. Laurie Baker
70819142601. Raj Rewal
70819142602. Achyut Kanvinde

**Question Number : 48 Question Id : 70819112944 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

पहला भारतीय वास्तुशिल्पी, जिसने 2018 में प्रिτζकर इनाम जीता है :

**Options :**

70819142599. बी.वी. दोशी
70819142600. लॉरी बेकर
70819142601. राज रेवाल
70819142602. अच्युत कानविन्दे

**Question Number : 49 Question Id : 70819112945 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

Word "Bungalow" has originated from :

**Options :**

70819142603. Bengalurm

70819142604. Banaras

70819142605. Bengal

70819142606. Bari

**Question Number : 49 Question Id : 70819112945 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

‘बंगलो’ (Bungalow) शब्द का उद्गम निम्न में से किस से हुआ ?

**Options :**

70819142603. बेंगालुरम (Bengalurm)

70819142604. बनारस (Banaras)

70819142605. बंगाल (Bengal)

70819142606. बारी (Bari)

**Question Number : 50 Question Id : 70819112946 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 :**

70819142607. Laurie Baker

70819142608. Louis Kahn

70819142609. Lutyen

70819142610. Le Corbusier

**Question Number : 50 Question Id : 70819112946 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्न में से किस वास्तुशिल्पी द्वारा IIM अहमदाबाद की रूपरेखा बनाई गई ?

**Options :**

70819142607. लॉरी बेकर

70819142608. लुई कान

70819142609. ल्युटेन

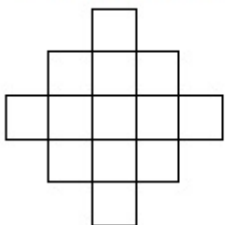
70819142610. ली कोर्बुज़िर

**Question Number : 51 Question Id : 70819112947 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 :**

70819142611. 14

70819142612. 13

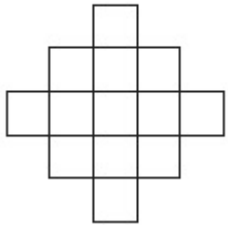
70819142613. 15

70819142614. 18

**Question Number : 51 Question Id : 70819112947 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

नीचे दी गई आकृति में, वर्गों की संख्या है :



**Options :**

70819142611. 14

70819142612. 13

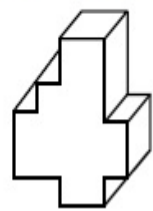
70819142613. 15

70819142614. 18

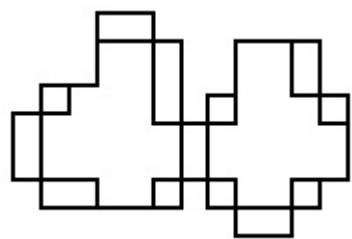
**Question Number : 52 Question Id : 70819112948 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

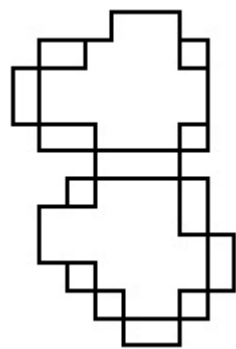
A drawing is provided with all the folds to construct the following three Dimensional object.  
Select the correct one.



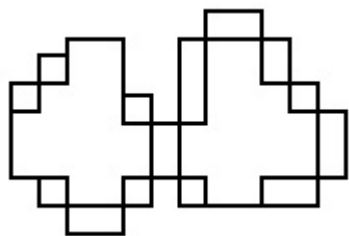
Options :



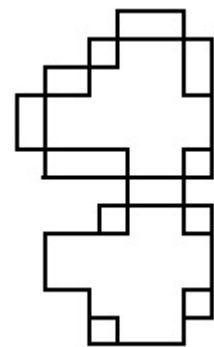
70819142615.



70819142616.



70819142617.



70819142618.

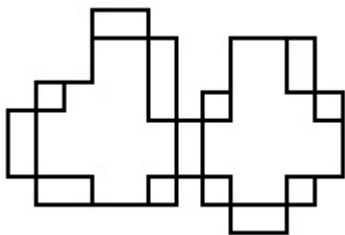
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

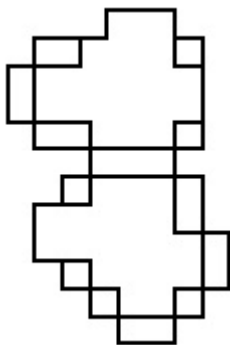
निम्न 3D आकृति को बनाने के लिए, सभी मोड़ों सहित एक ड्रॉइंग दी गई है। सही एक को चुनिए।



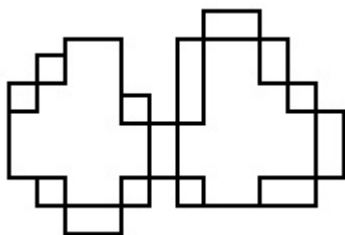
Options :



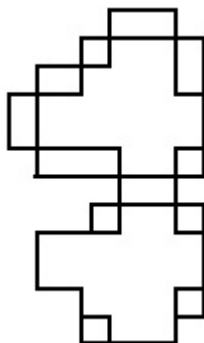
70819142615.



70819142616.



70819142617.

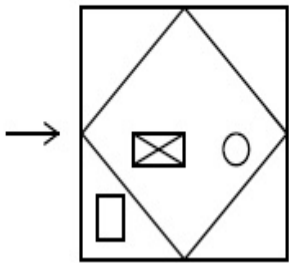


70819142618.

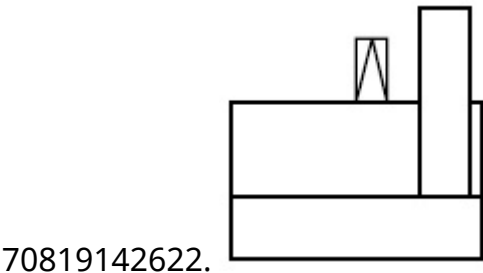
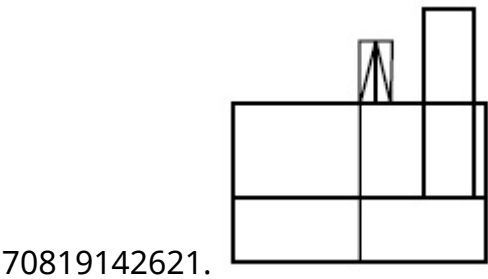
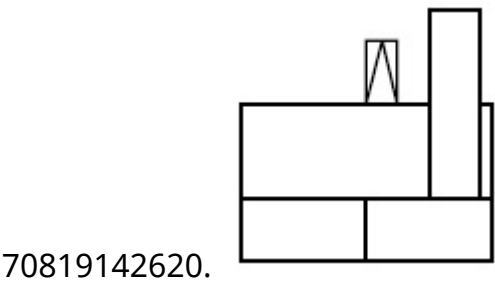
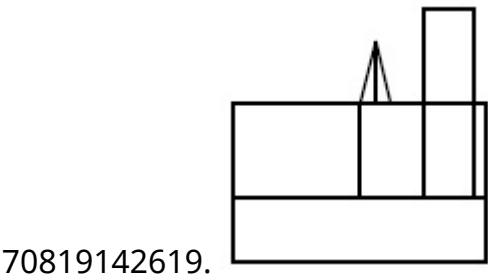
Question Number : 53 Question Id : 70819112949 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



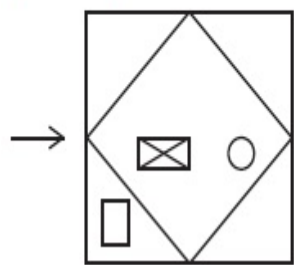
Options :



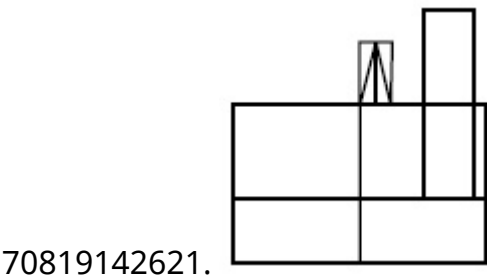
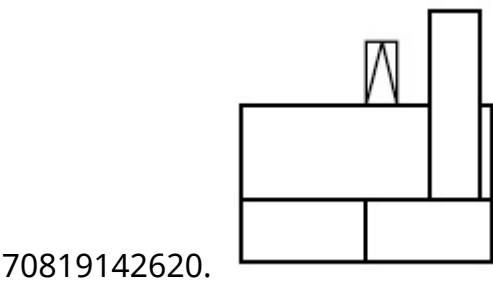
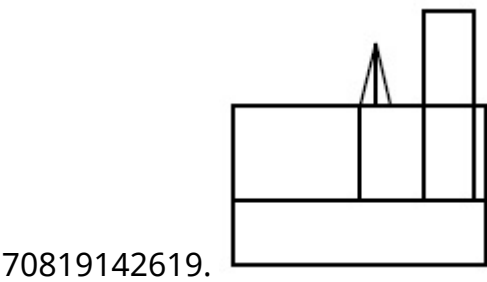
Question Number : 53 Question Id : 70819112949 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नीचे दी गई प्रश्न आकृति एक वस्तु के ऊपरी दृश्य को दर्शाती है। उत्तर आकृतियों में से, तीर की दिशा में देखते हुए सही दृश्य को चुनिये।

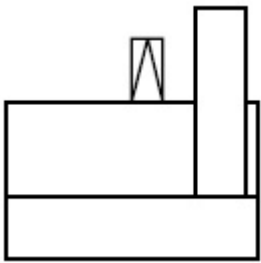


Options :



70819142622.



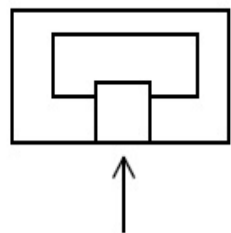


Question Number : 54 Question Id : 70819112950 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

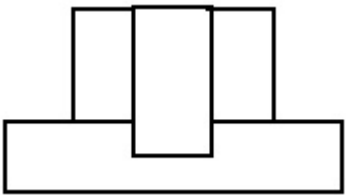
Correct Marks : 4 Wrong Marks : 1

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

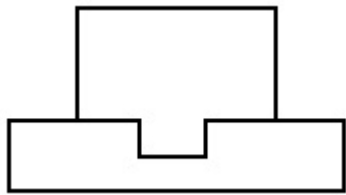


Options :

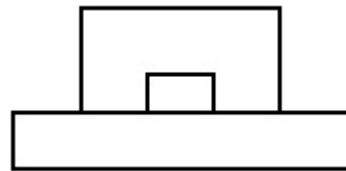
70819142623.



70819142624.



70819142625.



70819142626.

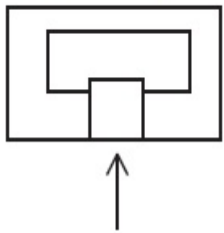


**Question Number : 54 Question Id : 70819112950 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

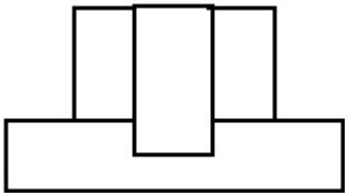
**Correct Marks : 4 Wrong Marks : 1**

निम्न प्रश्न आकृति एक वस्तु के ऊपरी दृश्य को दर्शाती है। तीर की दिशा में देखते हुए, दी गई उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

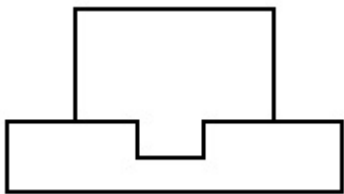


**Options :**

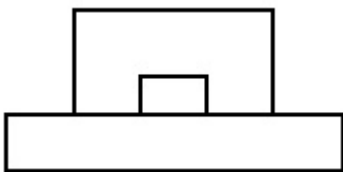
70819142623.



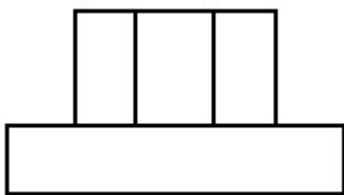
70819142624.



70819142625.



70819142626.

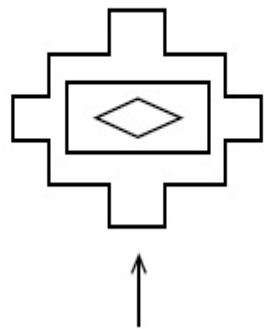


**Question Number : 55 Question Id : 70819112951 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

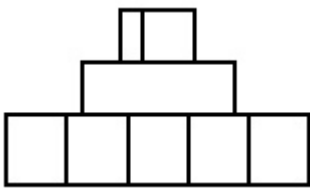
Correct Marks : 4 Wrong Marks : 1

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

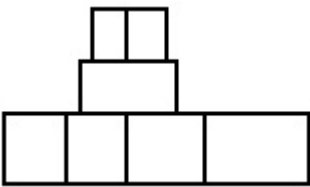


Options :

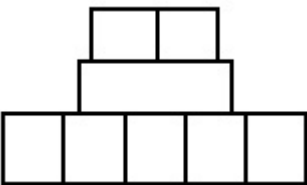
70819142627.



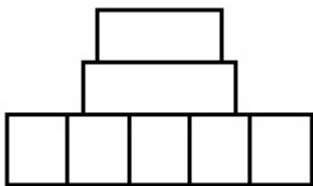
70819142628.



70819142629.



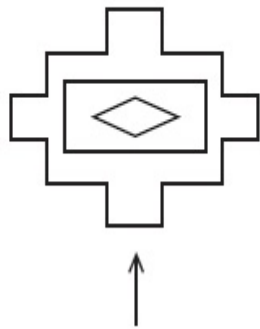
70819142630.



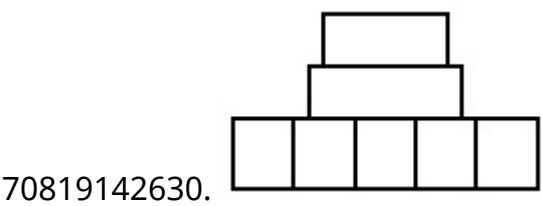
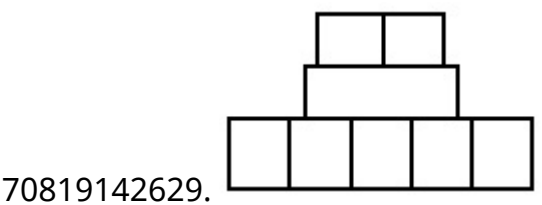
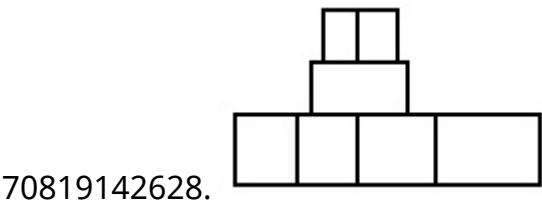
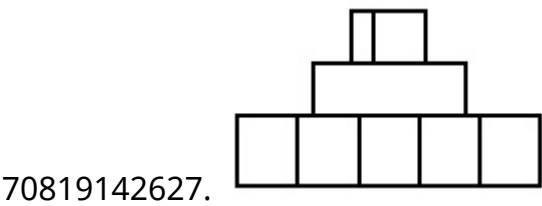
Question Number : 55 Question Id : 70819112951 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

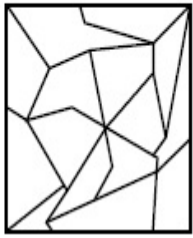


Options :



Question Number : 56 Question Id : 70819112952 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 :**

70819142631.

70819142632.

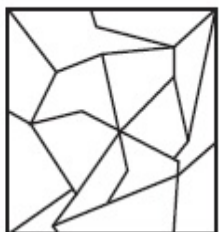
70819142633.

70819142634.

**Question Number : 56 Question Id : 70819112952 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



**Options :**

70819142631.

70819142632.



70819142633.



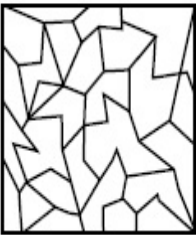
70819142634.



**Question Number : 57 Question Id : 70819112953 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 :**

70819142635.



70819142636.



70819142637.



70819142638.



Question Number : 57 Question Id : 70819112953 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



Options :

70819142635.

70819142636.

70819142637.

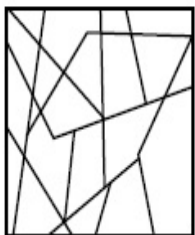
70819142638.

Question Number : 58 Question Id : 70819112954 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 :

70819142639.

70819142640. 

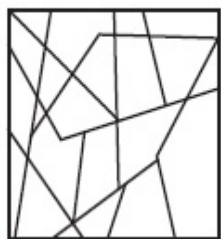
70819142641. 

70819142642. 

**Question Number : 58 Question Id : 70819112954 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



**Options :**

70819142639. 

70819142640. 

70819142641. 

70819142642. 

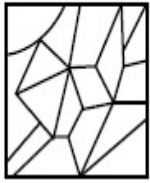
**Question Number : 59 Question Id : 70819112955 Question Type : MCQ Option Shuffling : Yes**



**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 :**

70819142643.

70819142644.

70819142645.

70819142646.

**Question Number : 59 Question Id : 70819112955 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्न में से एक उत्तर चित्र उसी आकार तथा दिशा में प्रश्न चित्र में छिपा हुआ है। सही उत्तर को चुनिये।



**Options :**

70819142643.

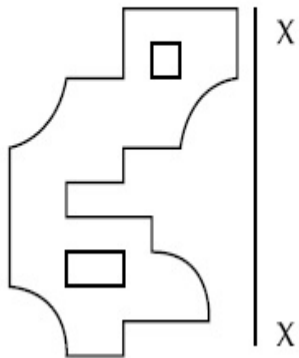
70819142644.

70819142645. 

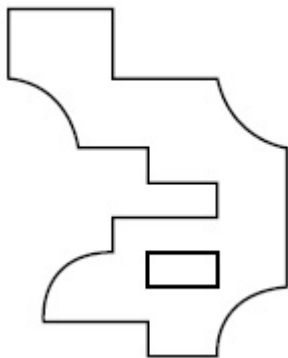
70819142646. 

**Question Number : 60 Question Id : 70819112956 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

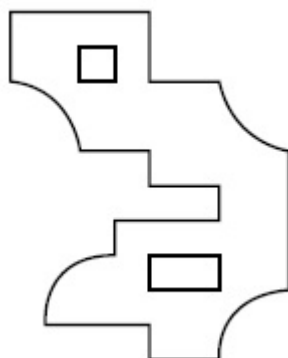
Which one of the answer figures is correct mirror image of problem figure with respect to X-X ?



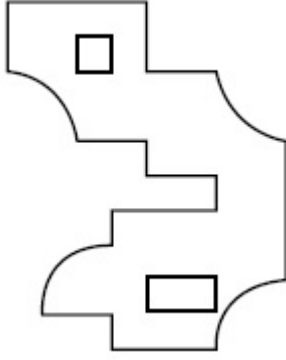
**Options :**



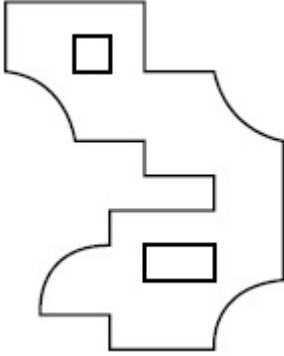
70819142647.



70819142648.



70819142649.



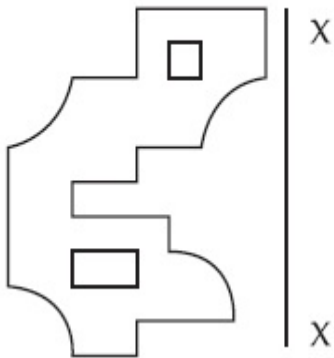
70819142650.

**Question Number : 60 Question Id : 70819112956 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

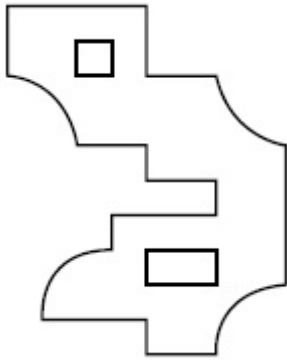
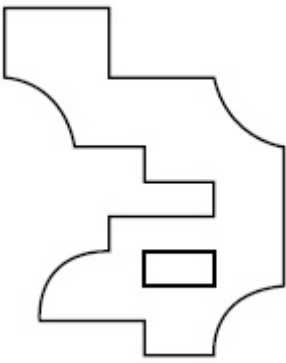
**Correct Marks : 4 Wrong Marks : 1**

उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है?

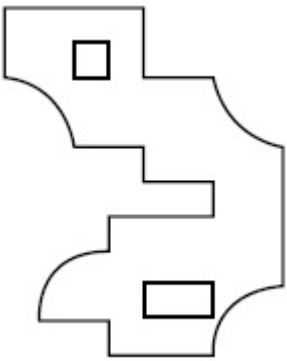


**Options :**

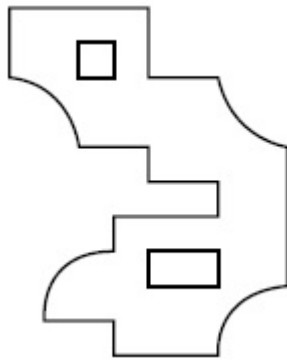
70819142647.



70819142648.

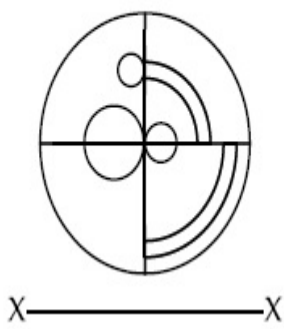


70819142649.

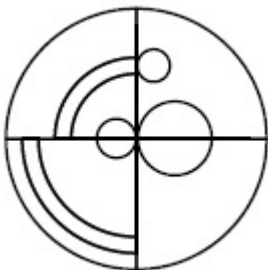


70819142650.

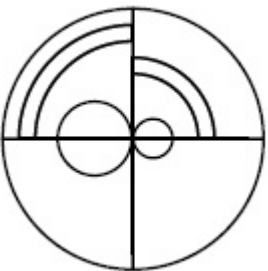
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



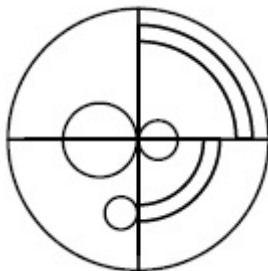
Options :



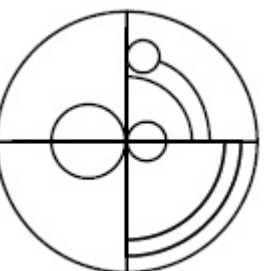
70819142651.



70819142652.



70819142653.



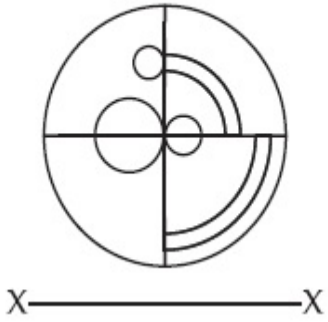
70819142654.

Question Number : 61 Question Id : 70819112957 Question Type : MCQ Option Shuffling : Yes

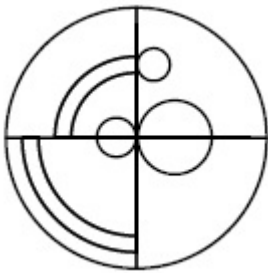
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

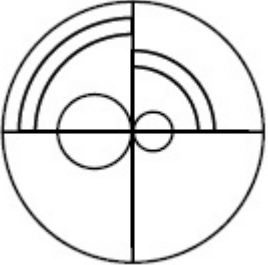
उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है ?



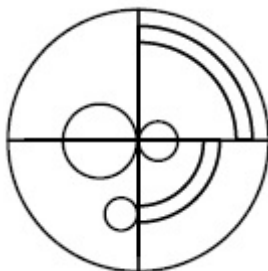
Options :



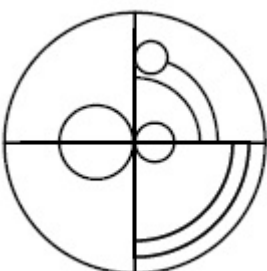
70819142651.



70819142652.



70819142653.

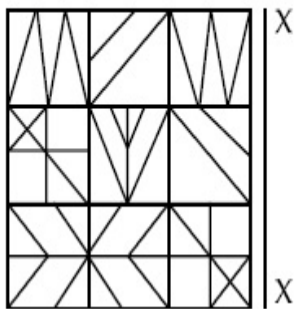


70819142654.

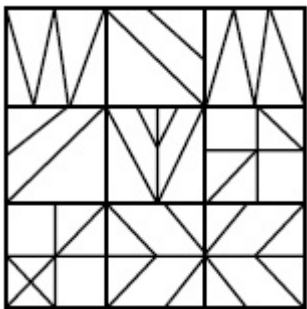
Question Number : 62 Question Id : 70819112958 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

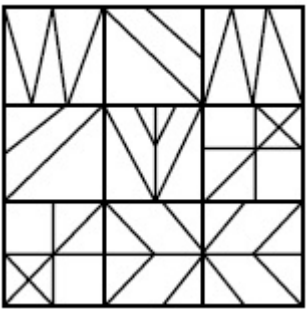
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



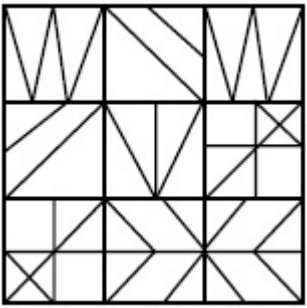
Options :



70819142655.

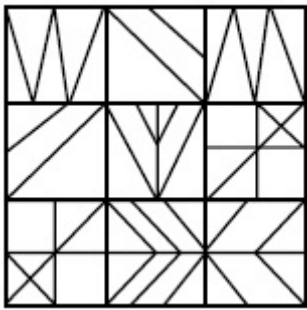


70819142656.



70819142657.

70819142658.

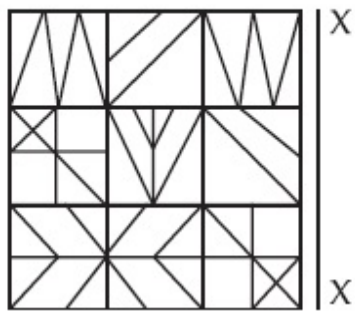


Question Number : 62 Question Id : 70819112958 Question Type : MCQ Option Shuffling : Yes

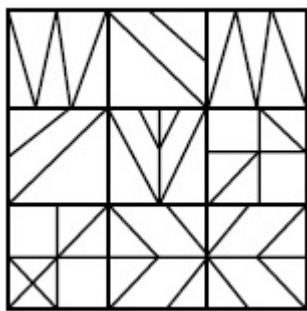
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

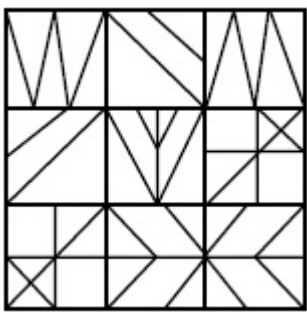
उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है ?



Options :



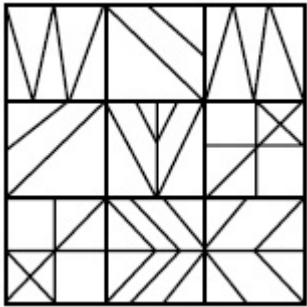
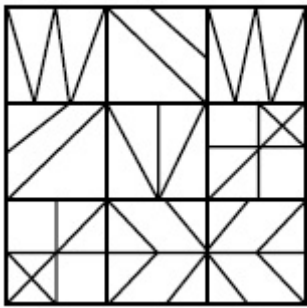
70819142655.



70819142656.

70819142657.



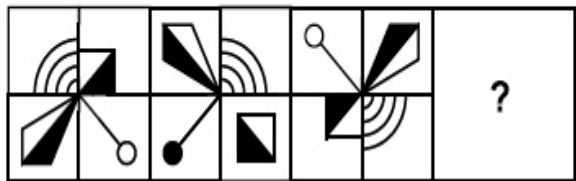


70819142658.

**Question Number : 63 Question Id : 70819112959 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 :**



70819142659.



70819142660.

70819142661.



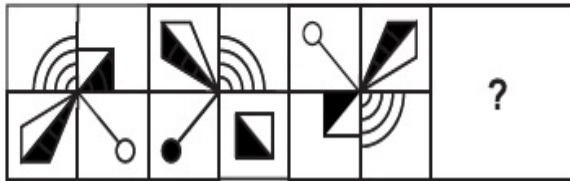
70819142662.



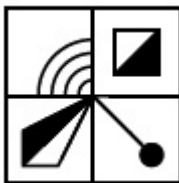
**Question Number : 63 Question Id : 70819112959 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

उत्तर आकृतियों में से कौन सी आकृति को तीन अनुक्रमित प्रश्न आकृति में लगाने से अनुक्रम (sequence) पूरा हो जाएगा ?



**Options :**



70819142659.



70819142660.



70819142661.

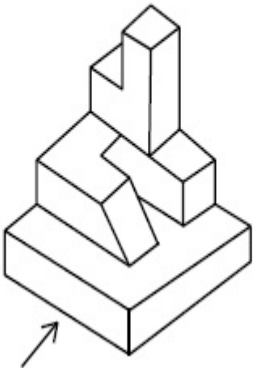
70819142662.



**Question Number : 64 Question Id : 70819112960 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

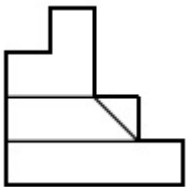
**Correct Marks : 4 Wrong Marks : 1**

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

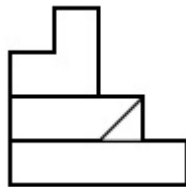


**Options :**

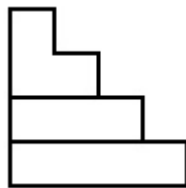
70819142663.



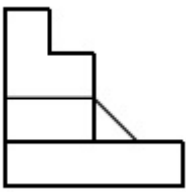
70819142664.



70819142665.



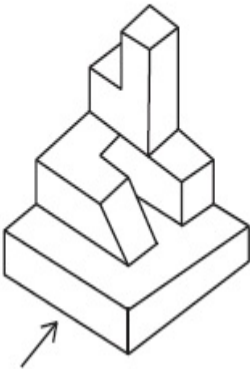
70819142666.



Question Number : 64 Question Id : 70819112960 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

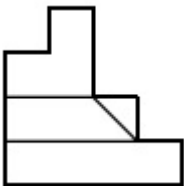
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

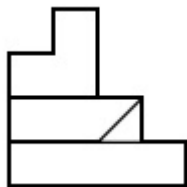


Options :

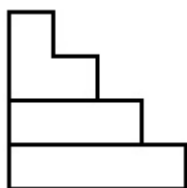
70819142663.



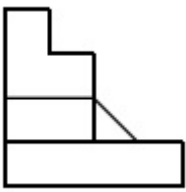
70819142664.



70819142665.



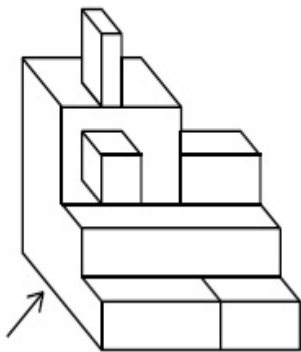
70819142666.



Question Number : 65 Question Id : 70819112961 Question Type : MCQ Option Shuffling : Yes  
 Is Question Mandatory : No

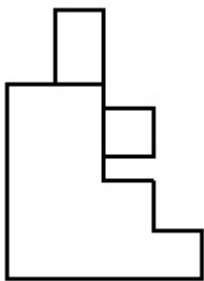
Correct Marks : 4 Wrong Marks : 1

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

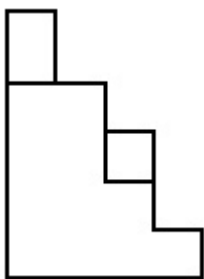


Options :

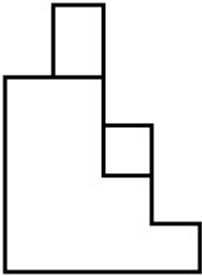
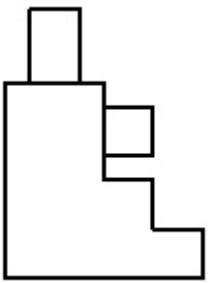
70819142667.



70819142668.



70819142669.



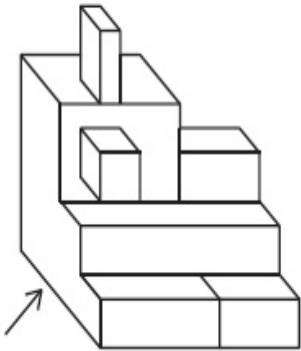
70819142670.

Question Number : 65 Question Id : 70819112961 Question Type : MCQ Option Shuffling : Yes

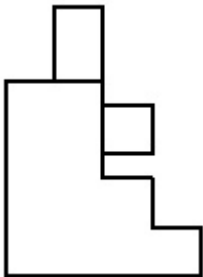
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

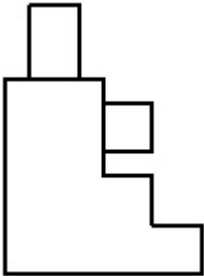
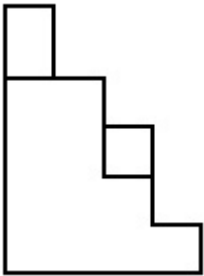


Options :

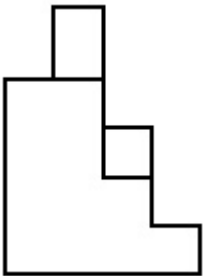


70819142667.

70819142668.



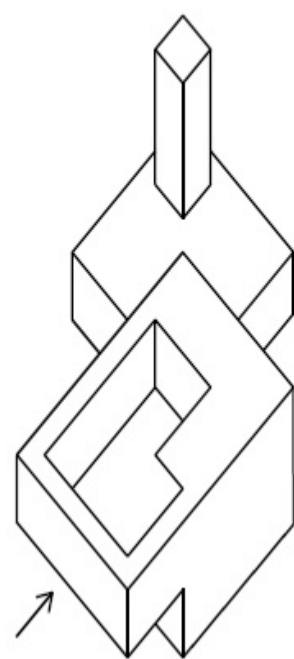
70819142669.



70819142670.

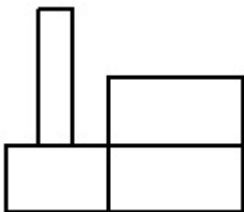
**Question Number : 66 Question Id : 70819112962 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

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

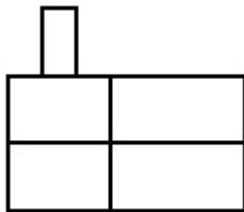


Options :

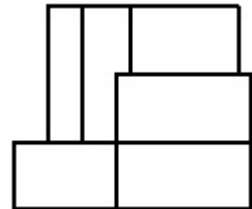
70819142671.



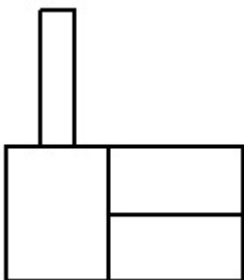
70819142672.



70819142673.



70819142674.

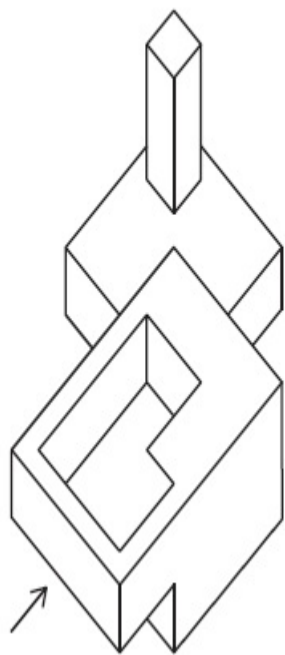




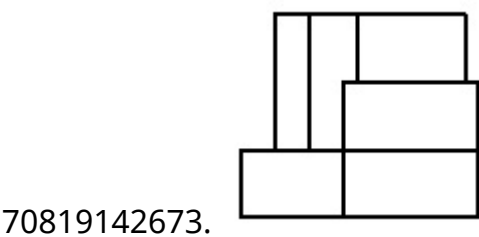
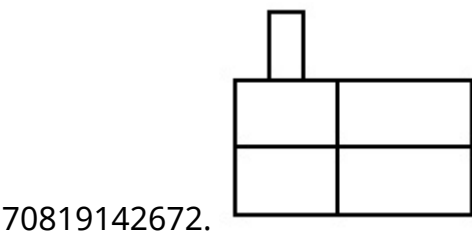
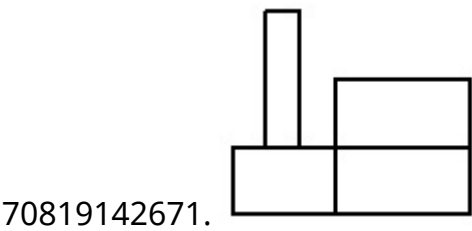
Question Number : 66 Question Id : 70819112962 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

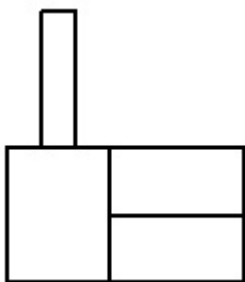
3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



Options :



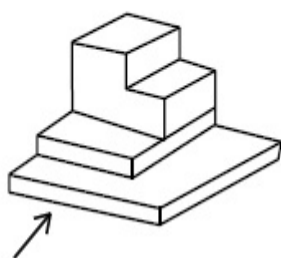
70819142674.



**Question Number : 67 Question Id : 70819112963 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

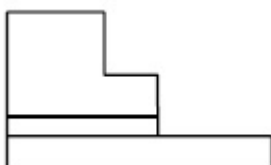
**Correct Marks : 4 Wrong Marks : 1**

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

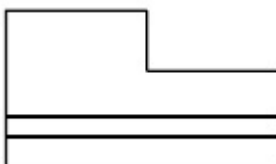


**Options :**

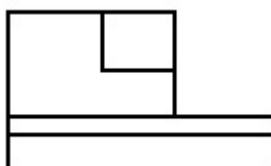
70819142675.



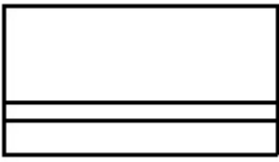
70819142676.



70819142677.



70819142678.

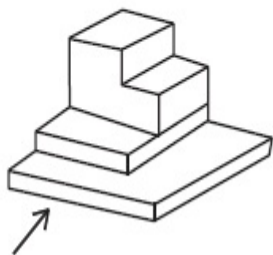


Question Number : 67 Question Id : 70819112963 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

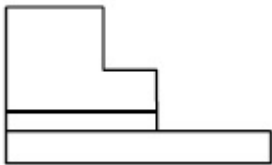
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

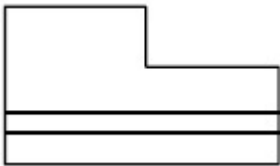


Options :

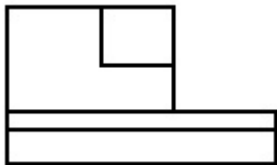
70819142675.



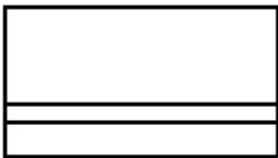
70819142676.



70819142677.



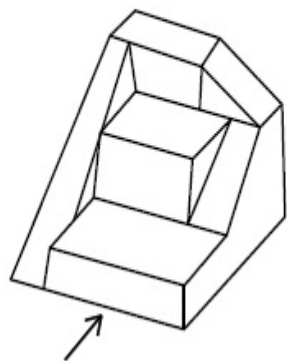
70819142678.



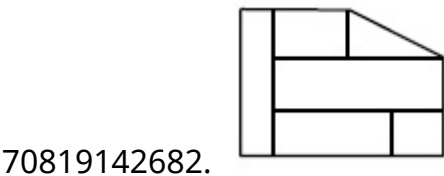
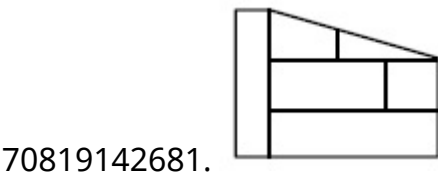
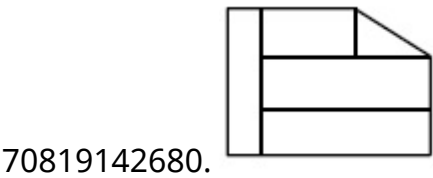
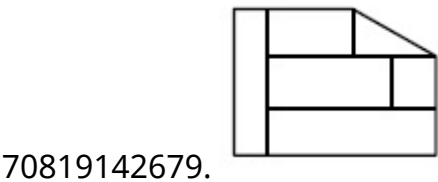
Question Number : 68 Question Id : 70819112964 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



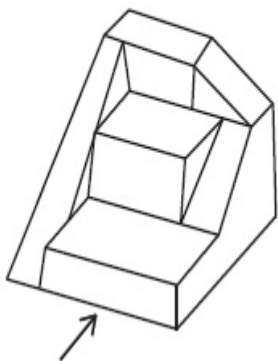
Options :



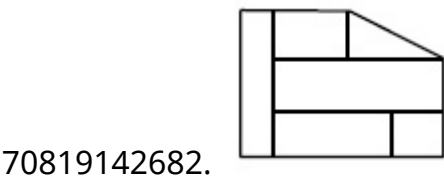
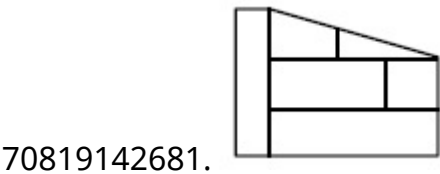
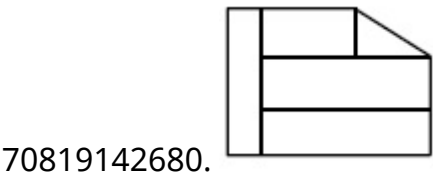
Question Number : 68 Question Id : 70819112964 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



Options :

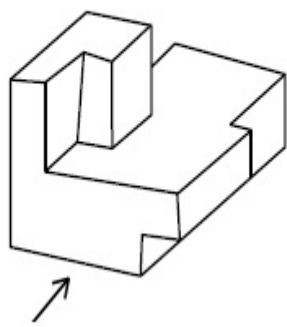


Question Number : 69 Question Id : 70819112965 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

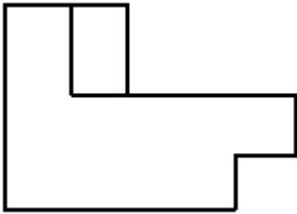
Correct Marks : 4 Wrong Marks : 1

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

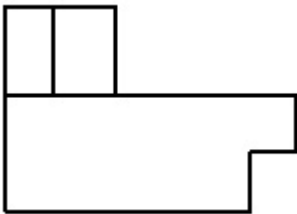


Options :

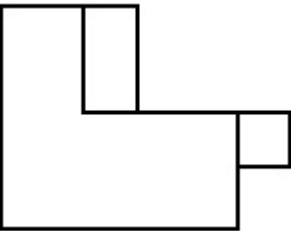
70819142683.



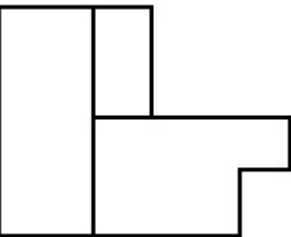
70819142684.



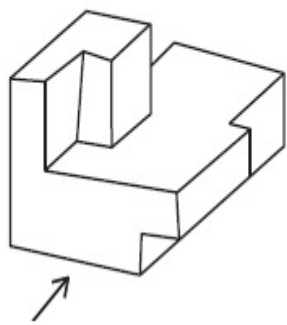
70819142685.



70819142686.

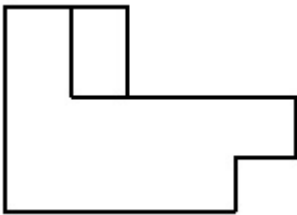


3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

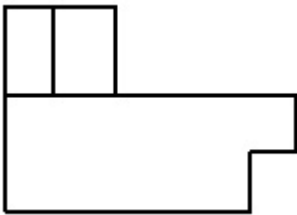


Options :

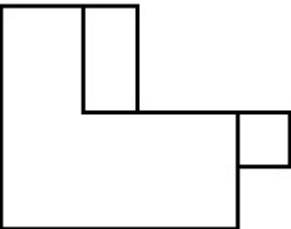
70819142683.



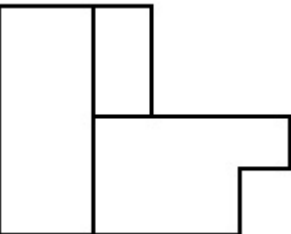
70819142684.



70819142685.

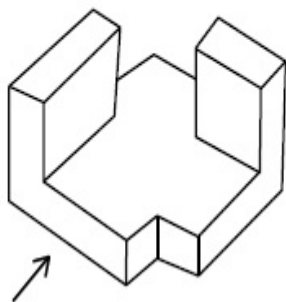


70819142686.

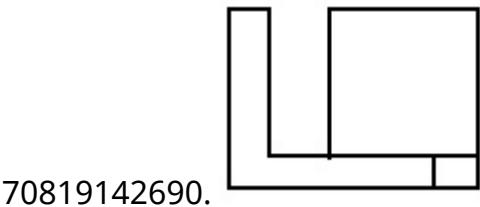
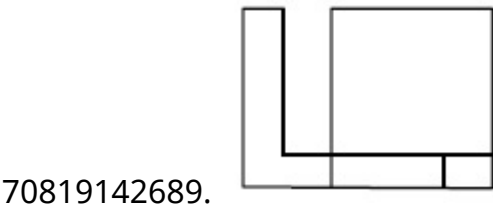
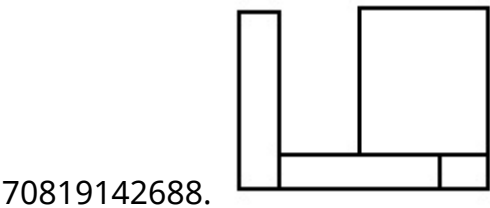
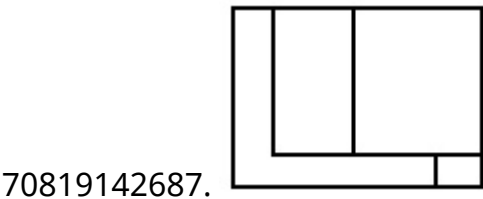


Correct Marks : 4 Wrong Marks : 1

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



Options :

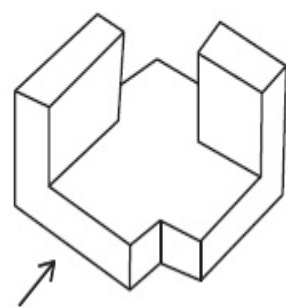


Question Number : 70 Question Id : 70819112966 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

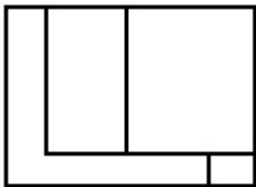


3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

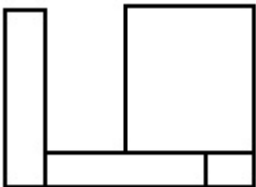


Options :

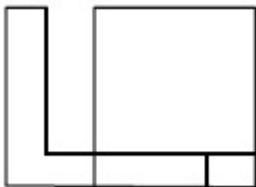
70819142687.



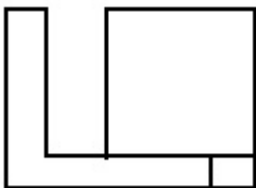
70819142688.



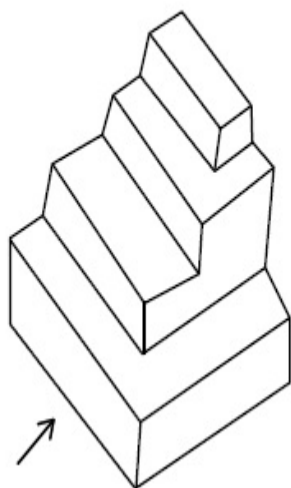
70819142689.



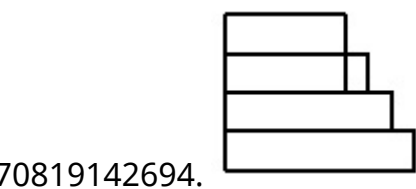
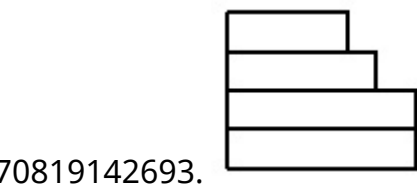
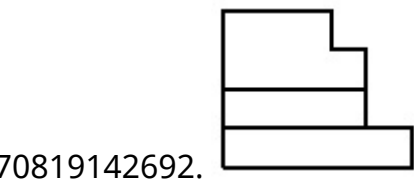
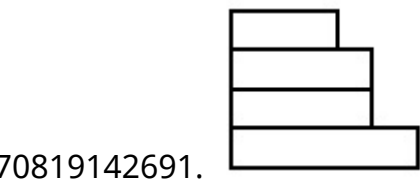
70819142690.



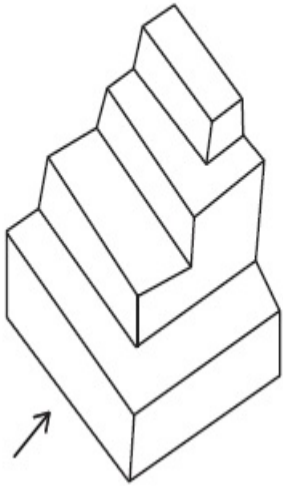
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



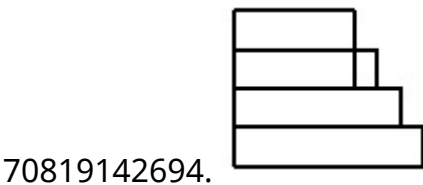
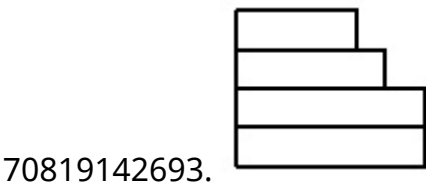
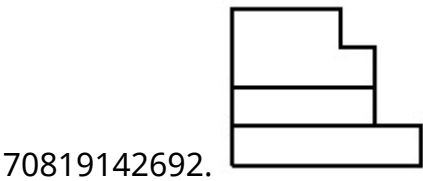
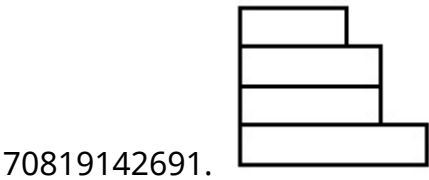
Options :



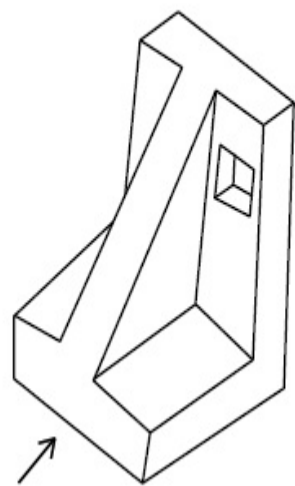
3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



Options :

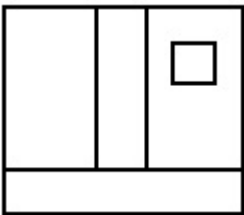


The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

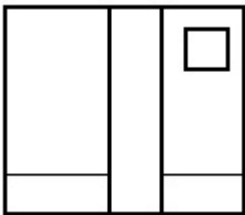


Options :

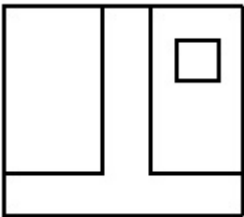
70819142695.



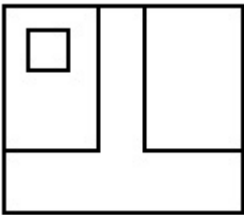
70819142696.



70819142697.



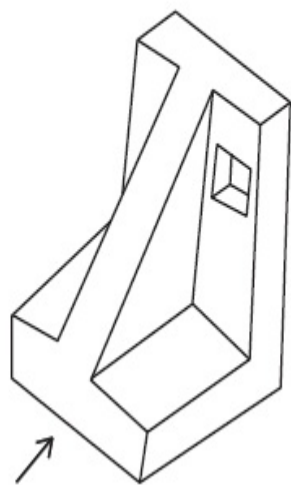
70819142698.



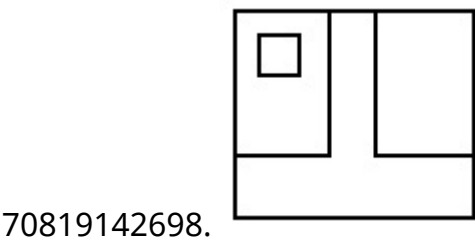
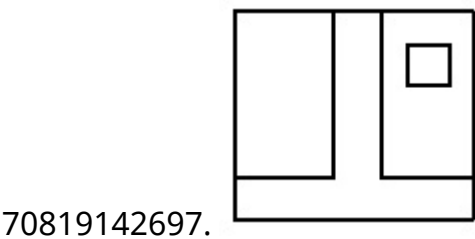
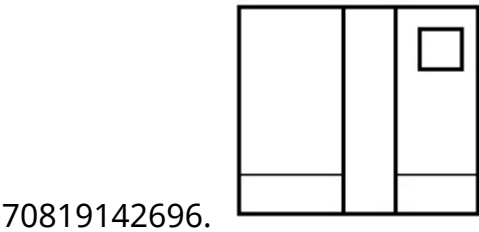
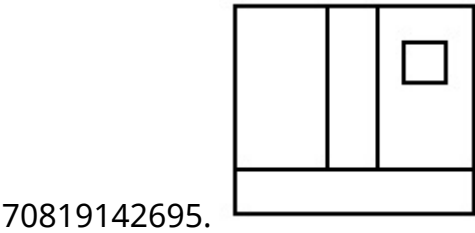
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दर्शाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



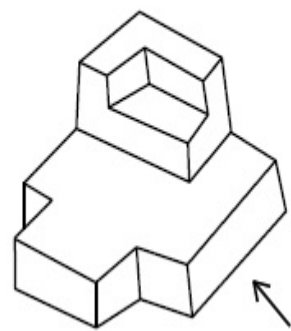
Options :



Question Number : 73 Question Id : 70819112969 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

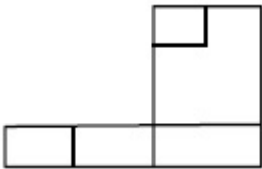
Correct Marks : 4 Wrong Marks : 1

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

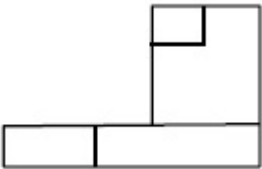


Options :

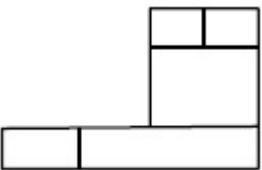
70819142699.



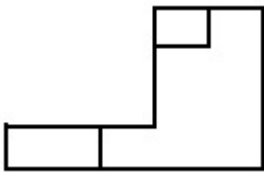
70819142700.



70819142701.



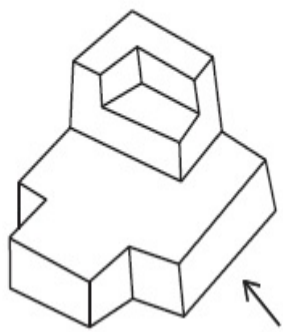
70819142702.



Question Number : 73 Question Id : 70819112969 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

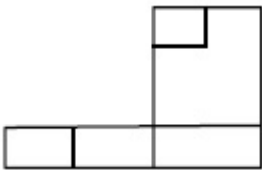
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दर्शाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

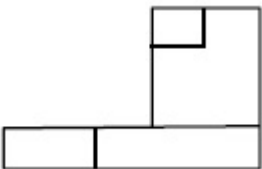


Options :

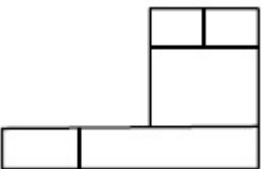
70819142699.



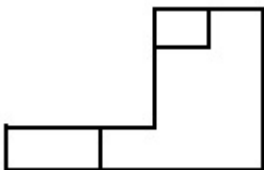
70819142700.



70819142701.



70819142702.

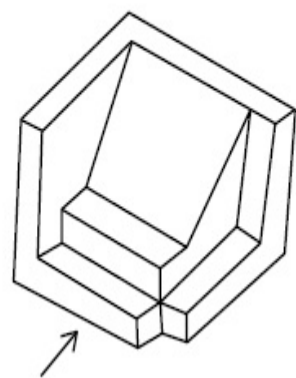


Question Number : 74 Question Id : 70819112970 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

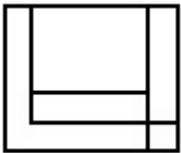
Correct Marks : 4 Wrong Marks : 1

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

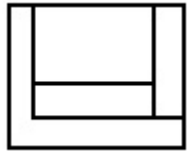


Options :

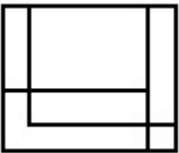
70819142703.



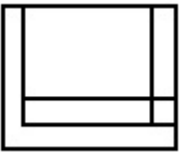
70819142704.



70819142705.



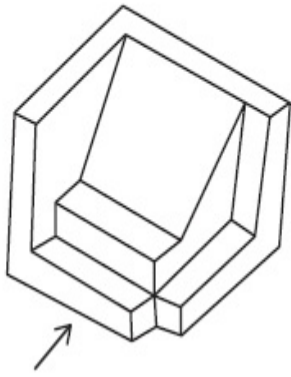
70819142706.



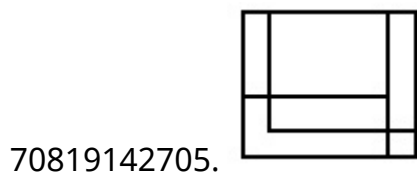
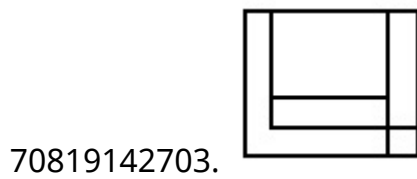
Question Number : 74 Question Id : 70819112970 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No  
Correct Marks : 4 Wrong Marks : 1



3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।



**Options :**

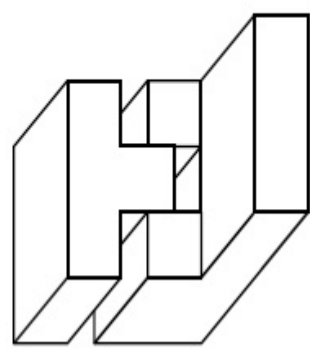


**Question Number : 75 Question Id : 70819112971 Question Type : MCQ Option Shuffling : Yes**

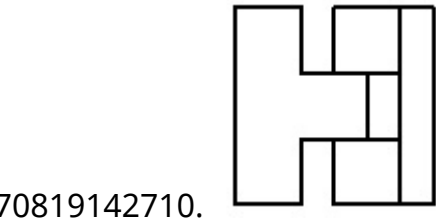
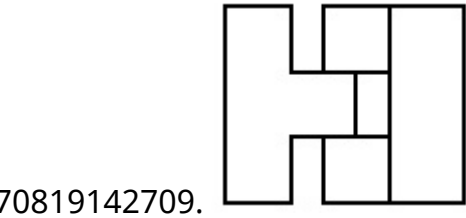
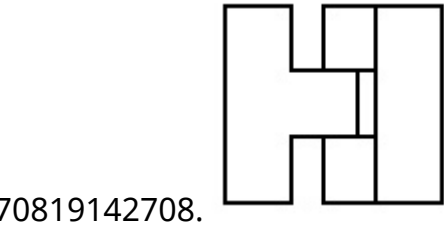
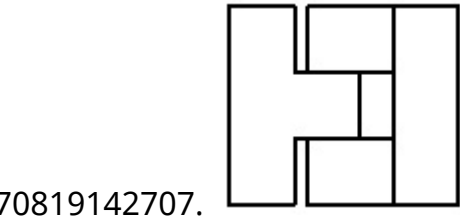
**Is Question Mandatory : No**

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

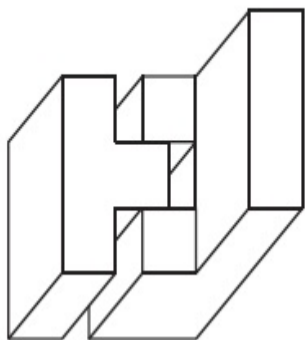
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.



Options :

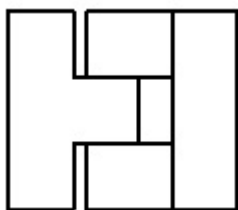


3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।

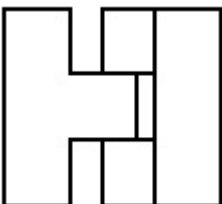


**Options :**

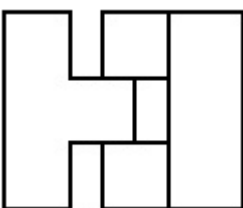
70819142707.



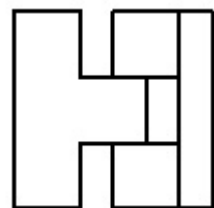
70819142708.



70819142709.



70819142710.

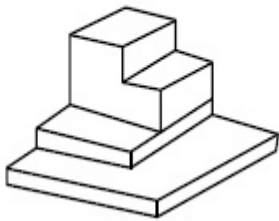


**Question Number : 76 Question Id : 70819112972 Question Type : MCQ Option Shuffling : Yes**

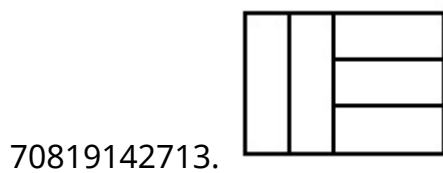
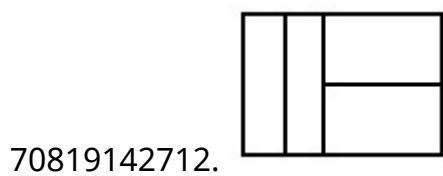
**Is Question Mandatory : No**

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

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



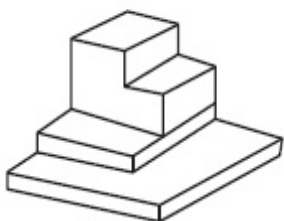
Options :



Question Number : 76 Question Id : 70819112972 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

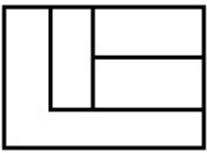
Correct Marks : 4 Wrong Marks : 1

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।



Options :

70819142711.



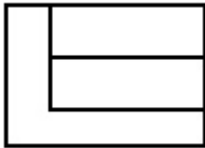
70819142712.



70819142713.



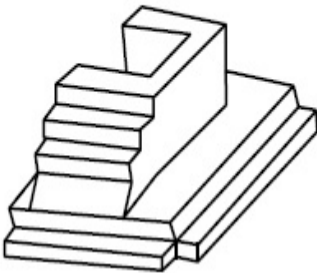
70819142714.



**Question Number : 77 Question Id : 70819112973 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

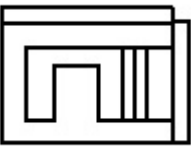
**Correct Marks : 4 Wrong Marks : 1**

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

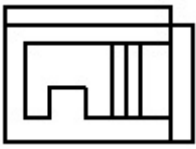


**Options :**

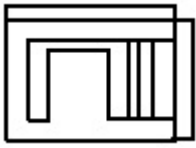
70819142715.



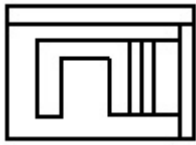
70819142716.



70819142717.



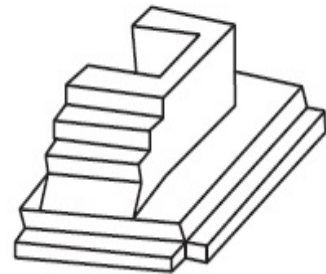
70819142718.



**Question Number : 77 Question Id : 70819112973 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

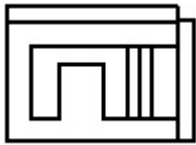
**Correct Marks : 4 Wrong Marks : 1**

3D आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।

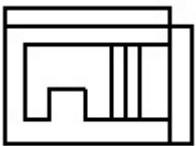


**Options :**

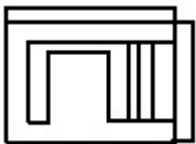
70819142715.



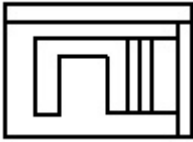
70819142716.



70819142717.



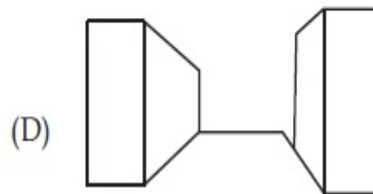
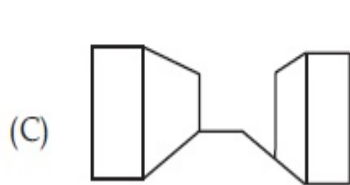
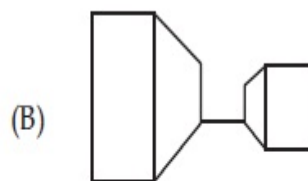
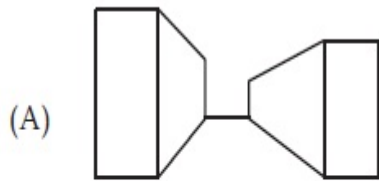
70819142718.



**Question Number : 78 Question Id : 70819112974 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 :**

70819142719. (A) and (B)

70819142720. (B) and (C)

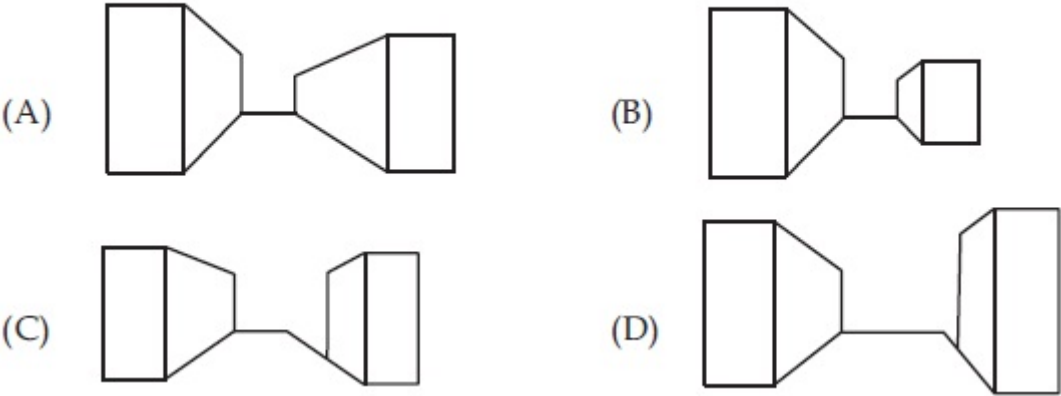
70819142721. (C) and (D)

70819142722. (D) and (A)

**Question Number : 78 Question Id : 70819112974 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

नीचे दी गई आकृतियों में से दृष्टि-संबंधी कम तनाव के भवन घटकों को पहचानिए।



Options :

70819142719. (A) और (B)

70819142720. (B) और (C)

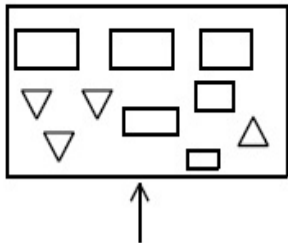
70819142721. (C) और (D)

70819142722. (D) और (A)

Question Number : 79 Question Id : 70819112975 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.

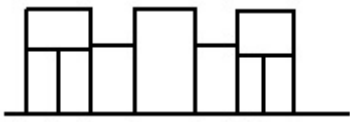


Options :

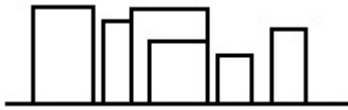


70819142724.





70819142725.



70819142726.

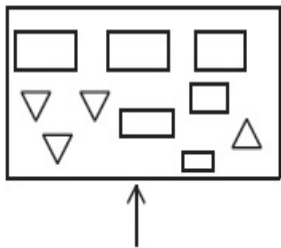


**Question Number : 79 Question Id : 70819112975 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

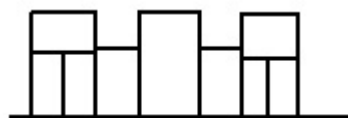


**Options :**

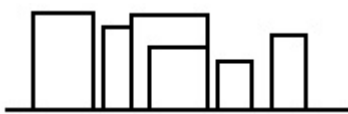
70819142723.



70819142724.



70819142725.



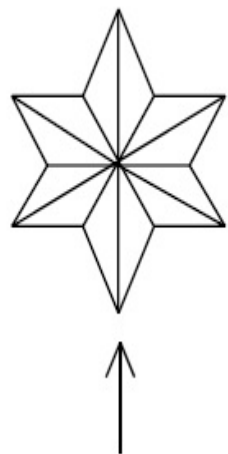
70819142726.



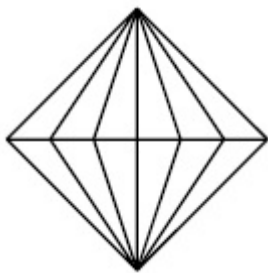
Question Number : 80 Question Id : 70819112976 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

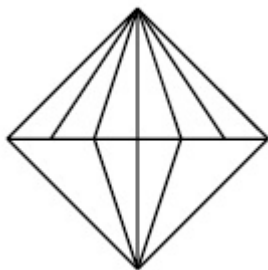
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



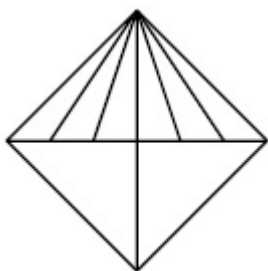
Options :



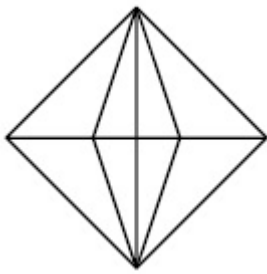
70819142727.



70819142728.



70819142729.



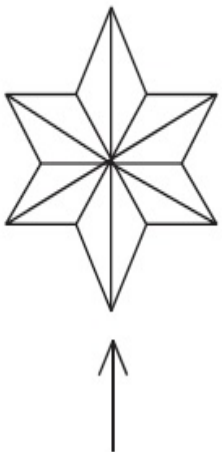
70819142730.

**Question Number : 80 Question Id : 70819112976 Question Type : MCQ Option Shuffling : Yes**

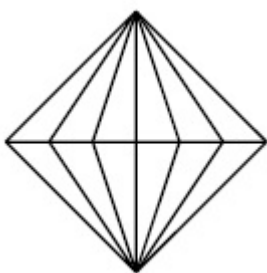
**Is Question Mandatory : No**

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

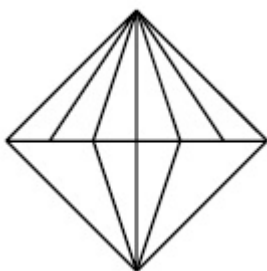
प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।



**Options :**

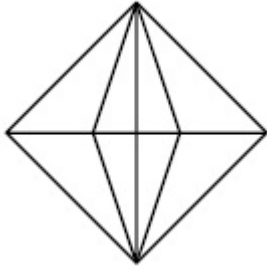
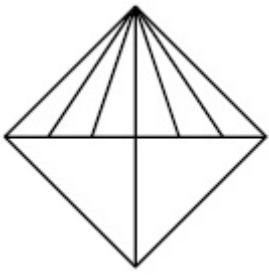


70819142727.



70819142728.

70819142729.



70819142730.

## Planning

|                                       |           |
|---------------------------------------|-----------|
| Section Id :                          | 708191448 |
| Section Number :                      | 4         |
| Section type :                        | Online    |
| Mandatory or Optional :               | Mandatory |
| Number of Questions :                 | 25        |
| Number of Questions to be attempted : | 25        |
| Section Marks :                       | 100       |
| Mark As Answered Required? :          | Yes       |
| Sub-Section Number :                  | 1         |
| Sub-Section Id :                      | 708191728 |
| Question Shuffling Allowed :          | Yes       |

Question Number : 81 Question Id : 70819112977 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

**Options :**

70819142731. Automobile

70819142732. Clothing and Textile

70819142733. Printing

70819142734. Iron and Steel

**Question Number : 81 Question Id : 70819112977 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

प्रथम विश्व युद्ध से पहले, निम्न में से कौन-सा उद्योग लंदन में अस्तित्व में नहीं था ?

**Options :**

70819142731. वाहन

70819142732. वस्त्र एवं परिधान

70819142733. छपाई

70819142734. लौह एवं इस्पात

**Question Number : 82 Question Id : 70819112978 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142735. Nitrogen

70819142736. Greenhouse gas

70819142737. Ozone

70819142738. Suspended Particulate Matter (SPM)

**Question Number : 82 Question Id : 70819112978 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

कार्बन फुटप्रिंट \_\_\_\_\_ की मात्रा में, वायुमंडल में जारी किया जाता है।

**Options :**

70819142735. नाइट्रोजन

70819142736. ग्रीनहाउस गैस

70819142737. ओज़ोन

70819142738. सस्पेंडेड पार्टिकुलेट मैटर (एस.पी.एम.)

**Question Number : 83 Question Id : 70819112979 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No**

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

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

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

Choose the correct answer from the options given below :

**Options :**

70819142739.  $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819142740.  $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819142741.  $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819142742.  $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

**Question Number : 83 Question Id : 70819112979 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

- A. कोड़ाईकनल
- B. कुलु
- C. माउंट आबू
- D. पंचगनी
- E. पहलगाम

ऊपर दिये गये पहाड़ी क्षेत्रों को दक्षिण दिशा से उत्तर दिशा की ओर सही क्रम में लिखिए।

नीचे दिए हुए विकल्पों में से सही विकल्प का चयन करें।

**Options :**

70819142739.  $E \rightarrow D \rightarrow B \rightarrow A \rightarrow C$

70819142740.  $E \rightarrow B \rightarrow C \rightarrow D \rightarrow A$

70819142741.  $C \rightarrow A \rightarrow B \rightarrow D \rightarrow E$

70819142742.  $A \rightarrow D \rightarrow C \rightarrow B \rightarrow E$

**Question Number : 84 Question Id : 70819112980 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Planning Commission in India has been replaced by :

**Options :**

70819142743. Mo HUA

70819142744. NITI Aayog

70819142745. NIUA

70819142746. PFI

**Question Number : 84 Question Id : 70819112980 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

भारत में योजना आयोग की जगह किसने ली है ?

**Options :**

70819142743. एम.ओ. एच.यू.ए. (Mo HUA)

70819142744. नीति आयोग

70819142745. एन.आई.यू.ए.

70819142746. पी.एफ.आई.



**Question Number : 85 Question Id : 70819112981 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

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

**Options :**

70819142747. 2005

70819142748. 2007

70819142749. 2009

70819142750. 2011

**Question Number : 85 Question Id : 70819112981 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**

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

“स्पेशल इकोनोमिक ज़ोन एक्ट” भारत में कब स्थापित हुआ था ?

**Options :**

70819142747. 2005

70819142748. 2007

70819142749. 2009

70819142750. 2011

**Question Number : 86 Question Id : 70819112982 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142751. National Horticulture Association of India.
70819142752. National Heritage Authority of India.
70819142753. National Hydroelectric Power Authority of India.
70819142754. National Highway Authority of India.

**Question Number : 86 Question Id : 70819112982 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

एन.एच.ए.आई. का दीर्घरूप क्या है ? सही उत्तर चुनिए।

**Options :**

70819142751. नेशनल होर्टीकल्चर एसोसिएशन ऑफ इण्डिया।
70819142752. नेशनल हेरिटेज ऑथोरिटी ऑफ इण्डिया।
70819142753. नेशनल हाइड्रोइलेक्ट्रिक पावर ऑथोरिटी ऑफ इण्डिया।
70819142754. नेशनल हाइवे ऑथोरिटी ऑफ इण्डिया।

**Question Number : 87 Question Id : 70819112983 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142755. 15

70819142756. 16

70819142757. 17

70819142758. 18

**Question Number : 87 Question Id : 70819112983 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

संयुक्त राष्ट्र संघ द्वारा कितने सतत विकास लक्ष्यों (Sustainable Development Goals) की घोषणा की गई है ?

**Options :**

70819142755. 15

70819142756. 16

70819142757. 17

70819142758. 18

**Question Number : 88 Question Id : 70819112984 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142759. 1947

70819142760. 1948

70819142761. 1950

70819142762. 1949

**Question Number : 88 Question Id : 70819112984 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

भारतीय शासन की “प्रथम औद्योगिक नीति” की घोषणा किस वर्ष में की गई थी ?

**Options :**

70819142759. 1947

70819142760. 1948

70819142761. 1950

70819142762. 1949

**Question Number : 89 Question Id : 70819112985 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Planning of Barcelona city in Spain is known for its :

**Options :**

70819142763. superblocs

70819142764. radial pattern

70819142765. high rise development

70819142766. waterbased transport

**Question Number : 89 Question Id : 70819112985 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

बार्सिलोना शहर जो कि स्पेन में उपस्थित है, की रचना किस लिये जानी जाती है ?

**Options :**

70819142763. सुपरब्लॉक

70819142764. रेडियल संरचना

70819142765. गगनचुंबी विकास

70819142766. जल परिवहन

**Question Number : 90 Question Id : 70819112986 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Which of these is not an industrial city ?

**Options :**

70819142767. Durgapur

70819142768. Vishakhapatnam

70819142769. Bhubaneswar

70819142770. Bhilai

**Question Number : 90 Question Id : 70819112986 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्नलिखित में से कौन-सा एक औद्योगिक शहर नहीं है ?

**Options :**

70819142767. दुर्गापुर

70819142768. विशाखापट्टनम

70819142769. भुवनेश्वर

70819142770. भिलाई

**Question Number : 91 Question Id : 70819112987 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142771. AMRUT

70819142772. Make in India

70819142773. HRIDAY

70819142774. UDAY

**Question Number : 91 Question Id : 70819112987 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्नलिखित में से भारत सरकार की कौन-सी योजना “पारंपरिक शहर” से जुड़ी हुई है?

**Options :**

70819142771. अमृत (ए.एम्.आर.यु.टी.)

70819142772. मेक इन इण्डिया

70819142773. हृदय (एच.आर.आय.डी.ए.वाय.)

70819142774. उदय (यु.डी.ए.वाय.)

**Question Number : 92 Question Id : 70819112988 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142775. Tamil Nadu

70819142776. Karnataka

70819142777. Andhra Pradesh

70819142778. Kerala

**Question Number : 92 Question Id : 70819112988 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्नलिखित में से कौन-से दक्षिण भारतीय राज्य में, कुल भूमिगत जल क्षमता के अनुसार सबसे अधिक भूमिगत जल की खपत है (प्रतिशत में) ?

**Options :**

70819142775. तमिलनाडु

70819142776. कर्नाटक

70819142777. आंध्रप्रदेश

70819142778. केरल

**Question Number : 93 Question Id : 70819112989 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

Survey of India was established in :

**Options :**

70819142779. 1886

70819142780. 1876

70819142781. 1866

70819142782. 1896

**Question Number : 93 Question Id : 70819112989 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



‘ भारतीय सर्वेक्षण विभाग ’ की स्थापना कब हुई थी ?

**Options :**

70819142779. 1886

70819142780. 1876

70819142781. 1866

70819142782. 1896

**Question Number : 94 Question Id : 70819112990 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

**Options :**

70819142783. Lok Sabha

70819142784. State Legislative Assembly

70819142785. Cabinets

70819142786. Panchayati Raj bodies

**Question Number : 94 Question Id : 70819112990 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

73<sup>rd</sup> अमेंडमेंट अक्ट (73<sup>rd</sup> CAA) 1992 नुसार सर्वप्रथम एक तृतीयांश महिलाओं के लिये आरक्षण निम्नलिखित में से किसमें दिया गया ?

**Options :**

70819142783. लोकसभा में

70819142784. विधान सभा

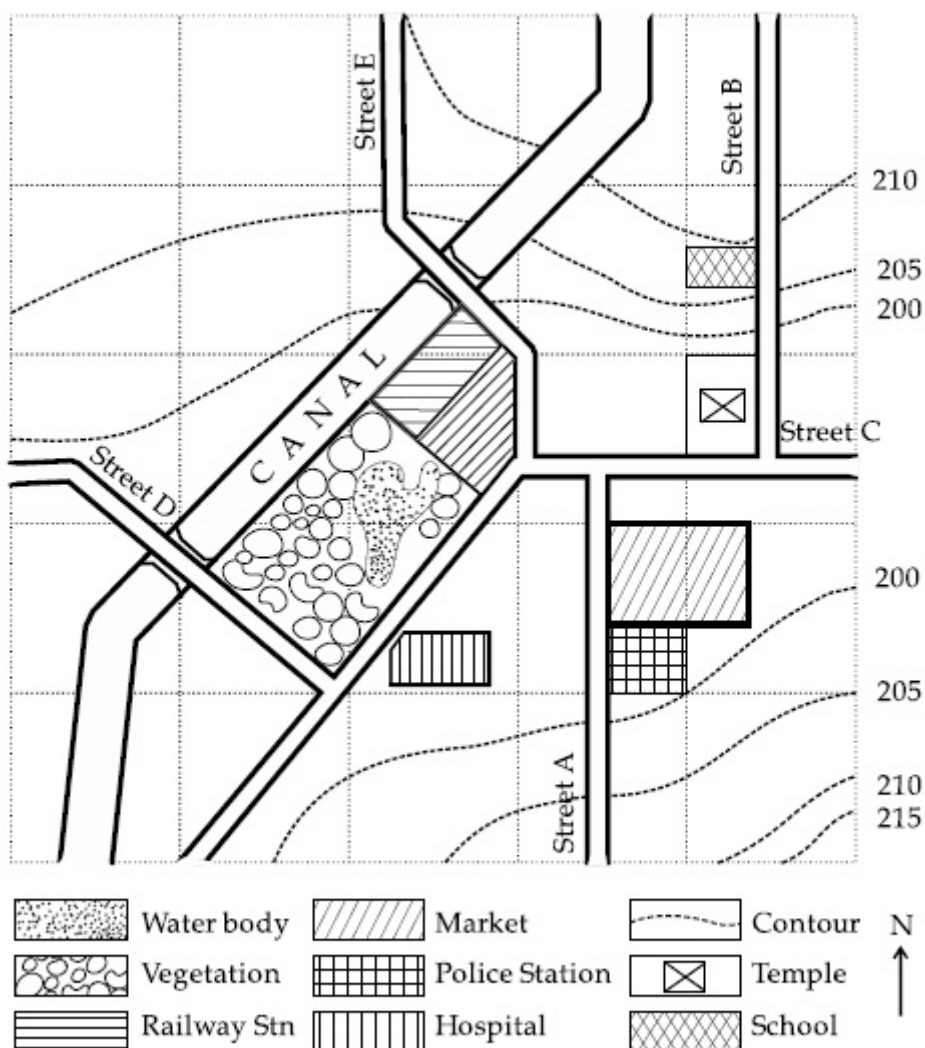
70819142785. केबिनेट

70819142786. पंचायती राज

Question Number : 95 Question Id : 70819112991 Question Type : MCQ Option Shuffling : Yes  
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



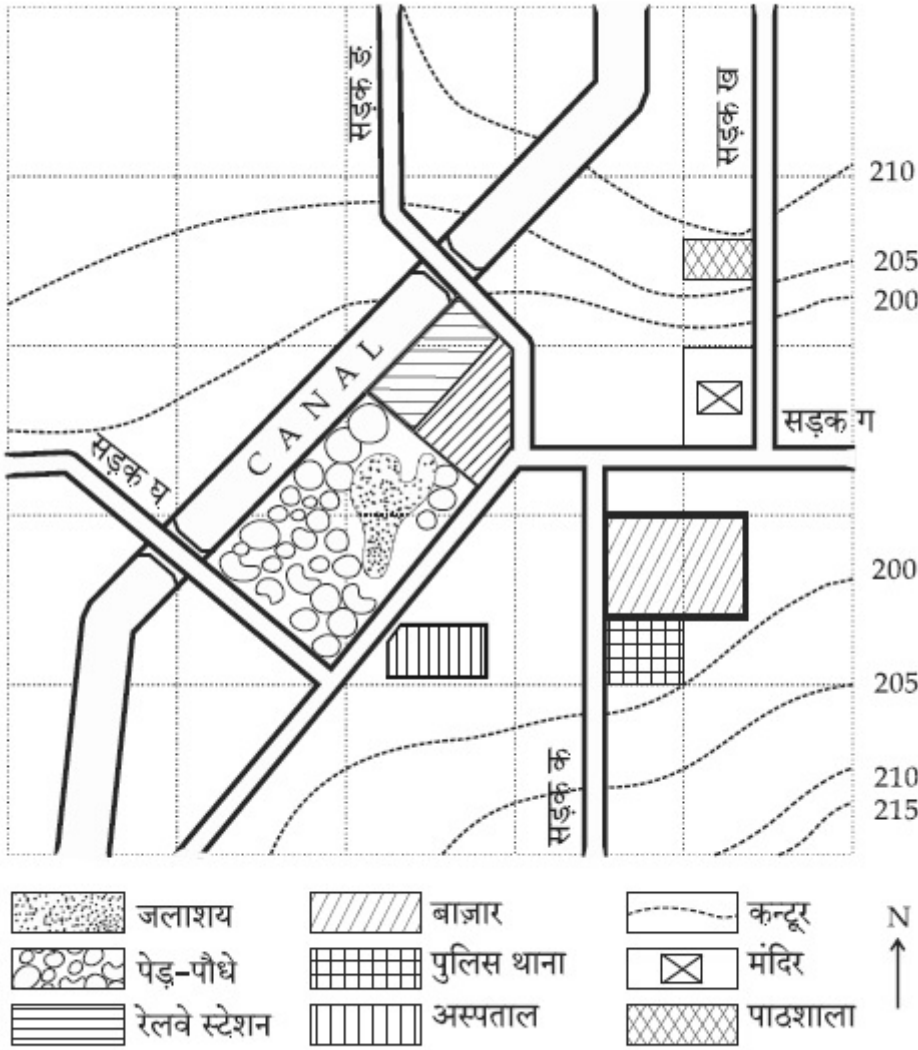
With reference to the diagram, choose the correct statement.

**Options :**

70819142787. Slope of land on which school is located is flatter than the slope of land on which hospital is located.
70819142788. Slope of land on which police station is located is steeper than the slope of land on which school is located.
70819142789. Slope of land on which school is located is steeper than the slope of land on which temple is located.
70819142790. Slope of land on which school is located is the same as the slope of land on which temple is located.

**Question Number : 95 Question Id : 70819112991 Question Type : MCQ Option Shuffling : Yes**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

नकाशावाचन (मॅप रीडिंग)



दिये हुए चित्र को देखते हुए निम्नलिखित में से सही वाक्य चुनिए।

Options :

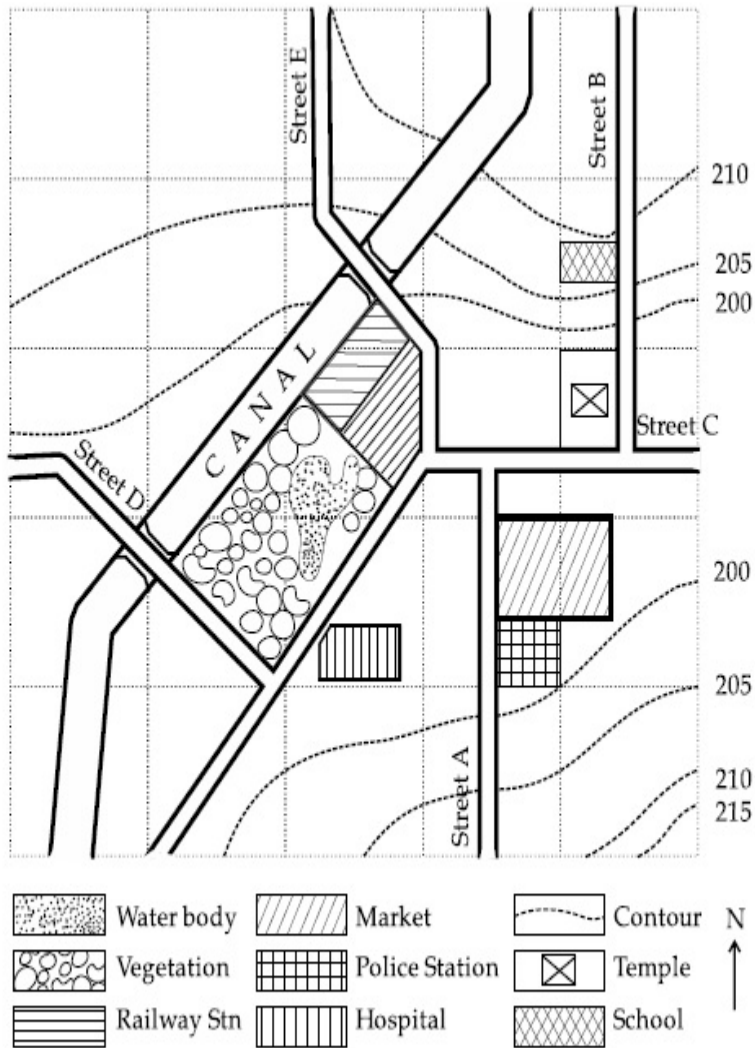
70819142787. उस जमीन का ढ़लान जिस पर स्कूल स्थित है, समतल है उस जमीन की तुलना में जिस पर अस्पताल स्थित है।
70819142788. जमीन जिस पर पुलिस स्टेशन है का ढ़लान तीव्र है, उस जमीन की तुलना में जिस पर स्कूल स्थित है।
70819142789. जमीन जिस पर स्कूल स्थित है की ढ़लान तीव्र है, उस जमीन की तुलना में जिस पर मन्दिर स्थित है।
70819142790. जमीन जिस पर स्कूल स्थित है का ढ़लान एवं जमीन जिस पर मन्दिर स्थित है का ढ़लान एक जैसे है।

Question Number : 96 Question Id : 70819112992 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



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

Options :

70819142791. North

70819142792. North - East

70819142793. South - West

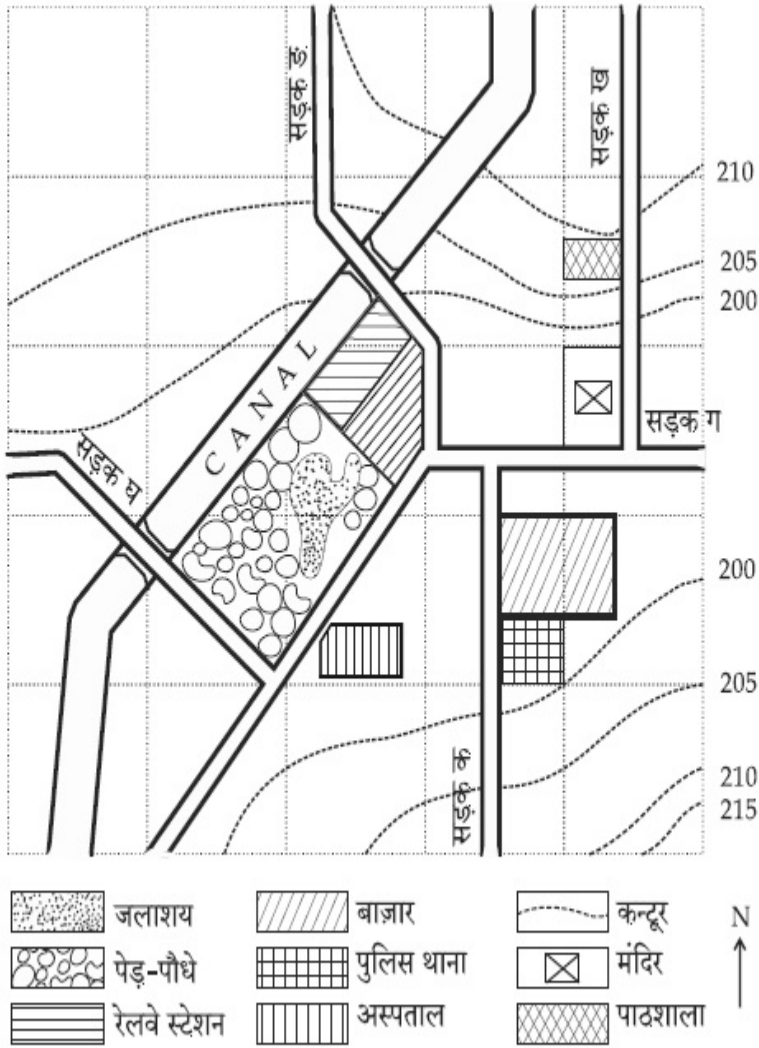
70819142794. East



Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मॅप रीडिंग)



दिये गए चित्र के अनुसार, एक व्यक्ति को रेलवे स्टेशन से मंदिर की ओर जाने के लिये किस दिशा में चलना होगा ?

Options :

70819142791. उत्तर दिशा

70819142792. उत्तर-पूर्वी

70819142793. दक्षिण-पश्चिम

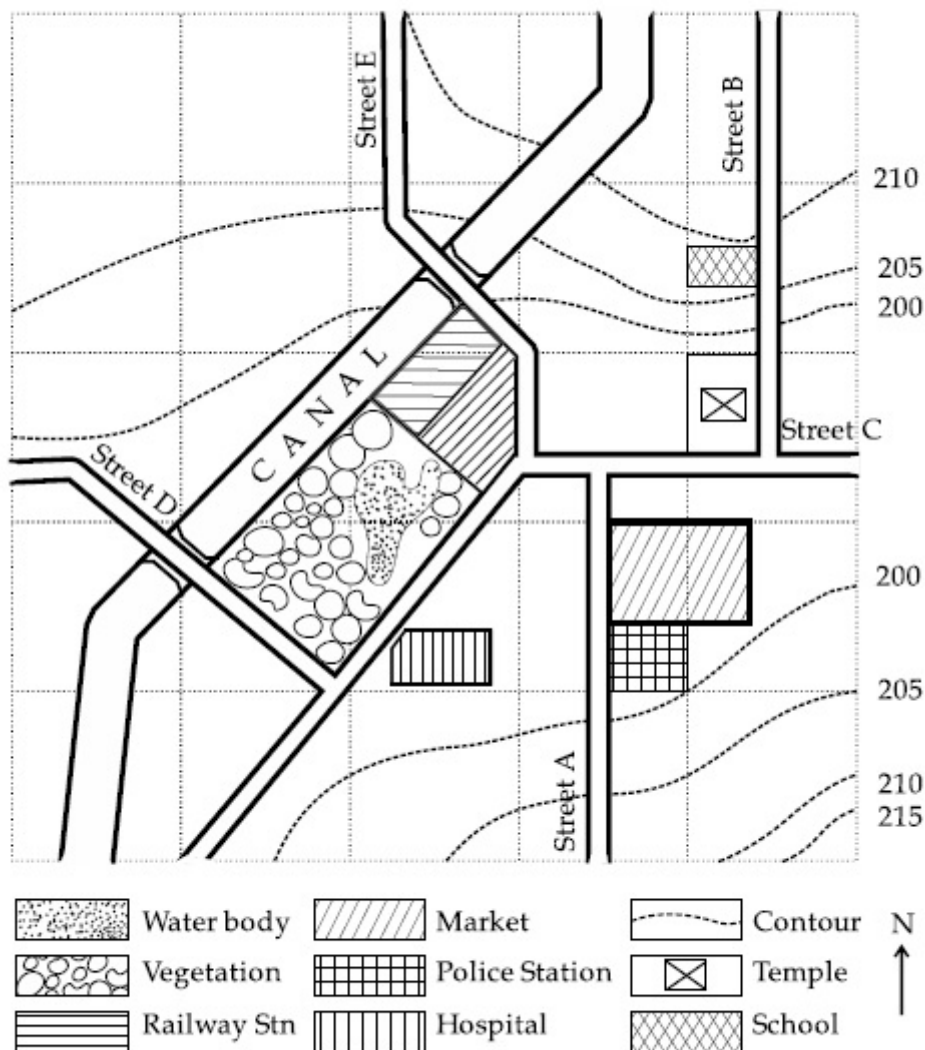
70819142794. पूरब

Question Number : 97 Question Id : 70819112993 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Map Reading.



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

Options :

70819142795. 5 m higher than police station.

70819142796. 5 m higher than school.

70819142797. same level as police station.

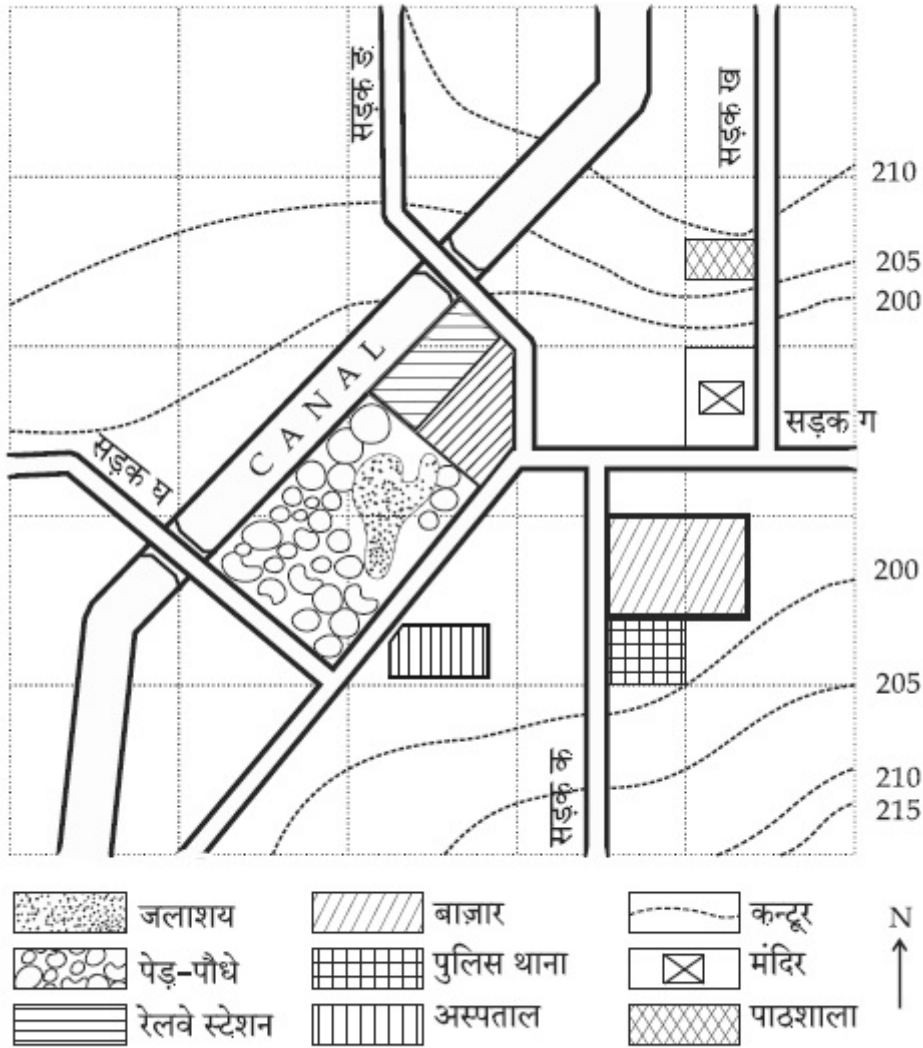
70819142798. same level as school.

Question Number : 97 Question Id : 70819112993 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

नकाशावाचन (मैप रीडिंग)



दिये गये नकाशा में जलाशय/तालाब कौनसे स्तर पर है ?

Options :

70819142795. पुलिस थाने से 5 मी. ऊपर

70819142796. पाठशाला से 5 मी. ऊपर

70819142797. पुलिस थाने के स्तर पर

70819142798. पाठशाला के स्तर पर

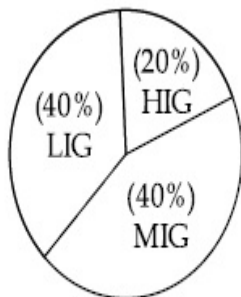


Question Number : 98 Question Id : 70819112994 Question Type : MCQ Option Shuffling : Yes

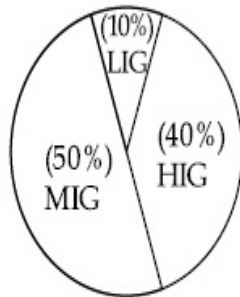
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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



Higher Secondary Education



College Education

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

Options :

70819142799. 4 : 1

70819142800. 1 : 5

70819142801. 6 : 1

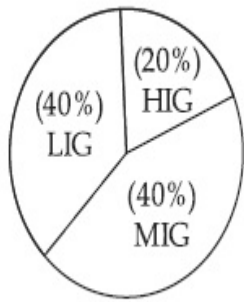
70819142802. 1 : 4

Question Number : 98 Question Id : 70819112994 Question Type : MCQ Option Shuffling : Yes

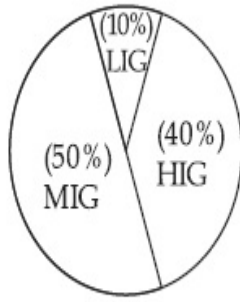
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित पाई-चार्ट उच्चतर माध्यमिक और कॉलेज शिक्षा में, नामांकित छात्रों को उनके परिवारों की आय के संबंध में, वितरण को दर्शाता है।



उच्चतर माध्यमिक शिक्षा



कॉलेज शिक्षा

निम्न आय (LIG) वर्ग से उच्चतर माध्यमिक में तथा कॉलेज में पढ़ने वाले छात्रों की संख्या का अनुपात है :

**Options :**

70819142799. 4 : 1

70819142800. 1 : 5

70819142801. 6 : 1

70819142802. 1 : 4

**Question Number : 99 Question Id : 70819112995 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

The surface area of earth is 510 million  $\text{km}^2$ . The land area is thirty percent of total surface. Urban land is three percent of total land surface. World population is 7.8 billion and fifty five percent is urban population. Find the closest correct answer.

**Options :**

70819142803. The density of population in urban area is 1000 persons/sq.km.

70819142804. The density of population in urban area is 849 persons/sq.km.

70819142805. The density of population in urban area is 4290 persons/sq.km.

70819142806.

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

**Question Number : 99 Question Id : 70819112995 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

भूमि का सतही क्षेत्रफल 510 मिलियन कि.मी.<sup>2</sup> है। जिसका 30 प्रतिशत (30%) जमीन क्षेत्रफल एवं 3 प्रतिशत (3%) शहरी जमीन है। विश्व जनसंख्या 7.8 बिलियन एवं 55% शहरी जनसंख्या है। नजदिकी सही उत्तर चुनिए :

**Options :**

70819142803. शहरी क्षेत्र में जनसंख्या का घनत्व 1000 व्यक्ति/कि.मी.<sup>2</sup> है।

70819142804. शहरी क्षेत्र में जनसंख्या का घनत्व 849 व्यक्ति/कि.मी.<sup>2</sup> है।

70819142805. शहरी क्षेत्र में जनसंख्या का घनत्व 4290/कि.मी.<sup>2</sup> है।

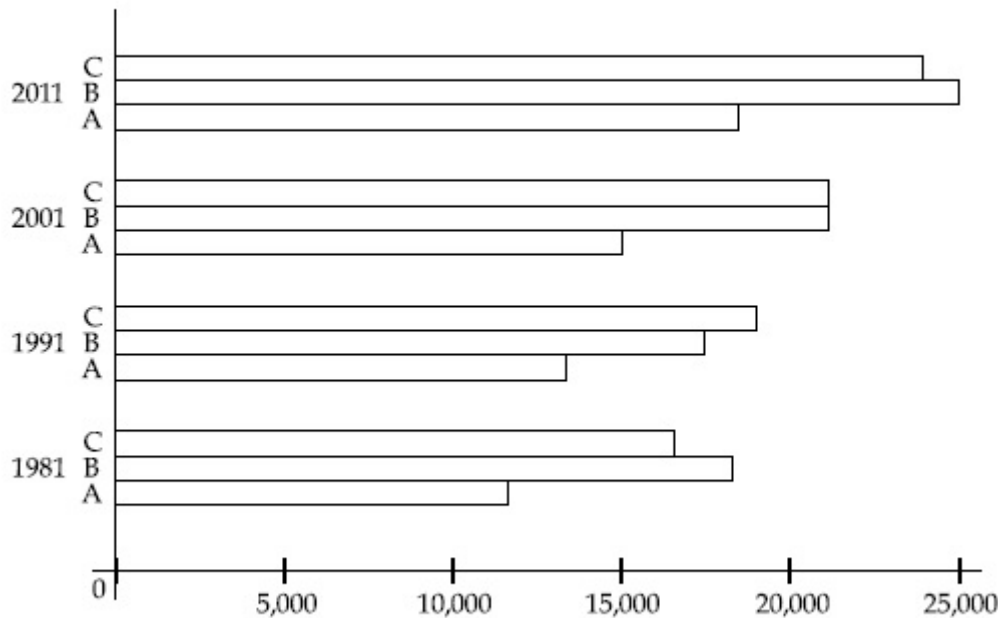
70819142806. शहरी क्षेत्र में जनसंख्या का घनत्व 7800 व्यक्ति/कि.मी.<sup>2</sup> है।

**Question Number : 100 Question Id : 70819112996 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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



Choose the correct statement :

Options :

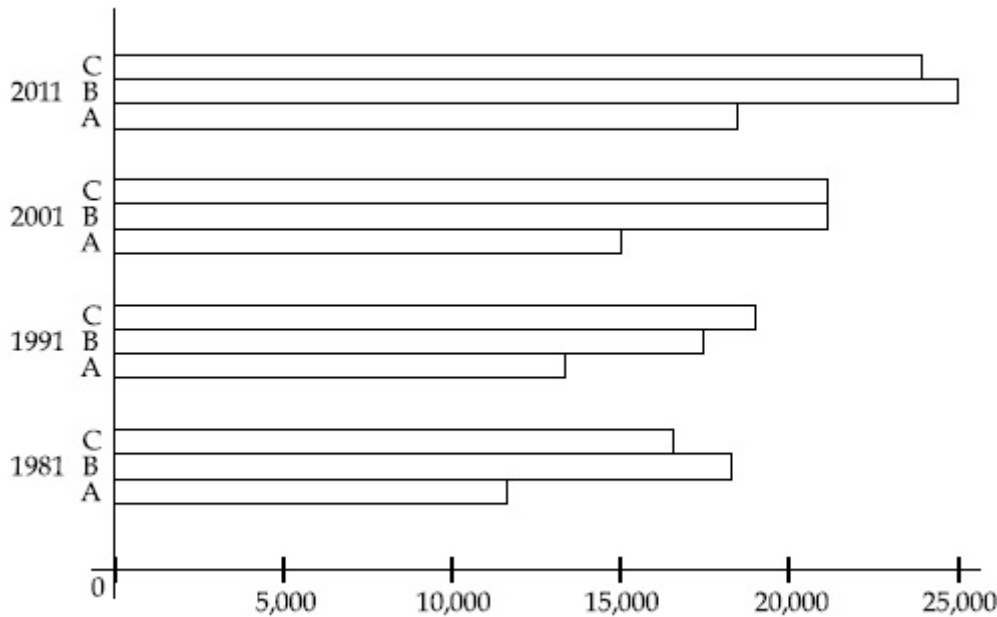
70819142807. City A shows the increase in population from 1981 to 2011 and city C does not show the increase likewise.
70819142808. City B shows a continuous decline in population from 1981–2011 whereas city A shows an increase.
70819142809. Population in city A is increasing in each decade from 1981 to 2001 whereas city B shows a decline from 1981 to 1991 and then it increases from 1991 to 2001.
70819142810. City C shows continuous decline in population in various decades whereas city B shows increase.

Question Number : 100 Question Id : 70819112996 Question Type : MCQ Option Shuffling : Yes

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

1981 से 2011 तक शहर A, B एवं C की जनसंख्या।



सही कथन चुनिए।

**Options :**

70819142807. शहर 'A' 1981 से 2011 के बीच जनसंख्या को बढ़ता हुआ दिखाता है एवं शहर 'C' ऐसा कोई बढ़ावा नहीं दिखाता है।

70819142808. शहर 'B' 1981 से 2011 के बीच जनसंख्या को लगातार घटता हुआ दिखाता है एवं शहर 'A' बढ़ता हुआ दिखाता है।

70819142809. शहर 'A' में 1981 से 2001 के बीच जनसंख्या प्रत्येक दशक में बढ़ रही है, वहीं शहर 'B' में 1981 से 1991 के बीच जनसंख्या घट रही है और 1991 से 2001 के बीच बढ़ रही है।

70819142810. शहर 'C' विभिन्न दशकों में जनसंख्या घटन दिखाता है, एवं शहर 'B' बढ़ावा दिखाता है।

**Question Number : 101 Question Id : 70819112997 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

The median speed of the vehicles is :

**Options :**

70819142811.  $26 \text{ kmhr}^{-1}$

70819142812.  $21.5 \text{ kmhr}^{-1}$

70819142813.  $30 \text{ kmhr}^{-1}$

70819142814.  $28.5 \text{ kmhr}^{-1}$

**Question Number : 101 Question Id : 70819112997 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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



एक सर्वेक्षण में, 100 वाहनों की गति को देखा गया। नीचे दी गयी सारणी में वाहन की गति और वाहनों की संख्या को दर्शाया गया है।

| वाहन गति ( कि.मी. प्रति घंटा ) | वाहनों की संख्या |
|--------------------------------|------------------|
| 20                             | 6                |
| 25                             | 20               |
| 28                             | 24               |
| 29                             | 28               |
| 33                             | 15               |
| 38                             | 4                |
| 40                             | 2                |
| 45                             | 1                |

वाहनों की औसतन गति है :

**Options :**

70819142811. 26 कि.मी./घंटा

70819142812. 21.5 कि.मी./घंटा

70819142813. 30 कि.मी./घंटा

70819142814. 28.5 कि.मी./घंटा

**Question Number : 102 Question Id : 70819112998 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819142815. As a charity by privileged people.

70819142816. As a way to reduce crime.

70819142817. As a way to sensitize travellers about poor living conditions in the society.

70819142818. As an adventure activity.

**Question Number : 102 Question Id : 70819112998 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819142815. As a charity by privileged people.

70819142816. As a way to reduce crime.

70819142817. As a way to sensitize travellers about poor living conditions in the society.

70819142818. As an adventure activity.

**Question Number : 103 Question Id : 70819112999 Question Type : MCQ Option Shuffling : Yes**



**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819142819. Learning

70819142820. Staring

70819142821. Peeping

70819142822. Gloating

**Question Number : 103 Question Id : 70819112999 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

**Options :**

70819142819. Learning

70819142820. Staring

70819142821. Peeping

70819142822. Gloating

**Question Number : 104 Question Id : 70819113000 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

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

**Options :**

70819142823. Both A and R are true and R is the correct explanation of A

70819142824. Both A and R are true but R is NOT the correct explanation of A

70819142825. A is true but R is false

70819142826. A is false but R is true

**Question Number : 104 Question Id : 70819113000 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्नलिखित दो विधान दिये हैं, एक अभिकथन 'A' से सूचित है और दूसरा कारण 'R' से सूचित है।

अभिकथन A : पिछले दो दशकों से सामूहिक ध्यान अवधि घटती जा रही है।

कारण R : त्वरित उपलब्धता एवं अधिक जानकारी की तीव्र पहुँच एक विषय को उबारू बना देती है।

ऊपर दिये हुए वाक्यों के अनुसार, नीचे दिये हुए वाक्यों में से सही वाक्य चुनिए।

**Options :**

70819142823. दोनों वाक्य A एवं R सही हैं। वाक्य R, वाक्य A का सही स्पष्टीकरण है।
70819142824. दोनों वाक्य A एवं R सही हैं। परन्तु वाक्य R, वाक्य A का सही स्पष्टीकरण नहीं देता है।
70819142825. वाक्य A सही है, परन्तु वाक्य R नहीं।
70819142826. वाक्य A सही नहीं है, परन्तु वाक्य R सही है।

**Question Number : 105 Question Id : 70819113001 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

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

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

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

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

**Options :**

70819142827. Both A and R are true and R is the correct explanation of A
70819142828. Both A and R are true but R is NOT the correct explanation of A
70819142829. A is true but R is false
70819142830. A is false but R is true

**Question Number : 105 Question Id : 70819113001 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No**

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

निम्नलिखित दो विधान दिये हैं एक अभिकथन 'A' से सूचित है और दूसरा कारण 'R' से सूचित है।

अभिकथन A : पिछले दो दशकों में, भारत में तलाक की दर में बढ़ावा आया है।

कारण R : ऐसे शादीशुदा जोड़े जिनको शिशु नहीं चाहिए, की संख्या बढ़ती जा रही है।

ऊपर दिये गये कथनों के अनुसार, नीचे दिये हुये कथनों में से सही कथन चुनिए।

**Options :**

70819142827. दोनों वाक्य A एवं R सही हैं एवं वाक्य R, वाक्य A का सही स्पष्टीकरण है।

70819142828. दोनों वाक्य A एवं R सही हैं एवं वाक्य R, वाक्य A का सही स्पष्टीकरण नहीं है।

70819142829. वाक्य A सही है, परन्तु वाक्य R गलत है।

70819142830. वाक्य A गलत है, परन्तु वाक्य R सही है।