The value of the integral \( \int_{-4}^{4} \left| 9 - x^2 \right| \, dx \) is:

Options:

\[ \frac{121}{3} \]

\[ \frac{122}{3} \]

\[ \frac{125}{3} \]

\[ \frac{128}{3} \]
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:**

\[ \frac{31}{13} \]
70819142445.

\[ \frac{108}{13} \]
70819142446.

\[ \frac{27}{2} \]
70819142447.

\[ \frac{54}{7} \]
70819142448.
Question Number : 2 Question Id : 70819112898 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

एक गुणोत्तर क्रेडी के अन्त धर्मों का योग 3 है तथा इसके पदों के वर्गों का योग \( \frac{9}{2} \) है, तो इसके पदों के घनों का योग है:

Options :

\[
\begin{align*}
\frac{31}{13} & \\
\frac{108}{13} & \\
\frac{27}{2} & \\
\frac{54}{7} & 
\end{align*}
\]

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. \( p \equiv p \vee q \)

70819142450. \( (p \wedge q) \equiv p \)

70819142451. \( (p \wedge (\neg p \vee q)) \vee (\neg q) \)
70819142452. \((p \lor \neg p) \land (q \lor \neg q)\)

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 कोन-सा बूलीय व्यंजक पुनरकित है?
Options :
70819142449. \(p \iff p \lor q\)
70819142450. \((p \land q) \iff p\)
70819142451. \((p \land \neg(p \lor q)) \lor (\neg q)\)
70819142452. \((p \lor \neg p) \land (q \lor \neg q)\)

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 \(|a|<1, |b|<1, |c|<1\) है तब \(x = \sum_{n=0}^{\infty} a^n, \ y = \sum_{n=0}^{\infty} b^n\) और \(z = \sum_{n=0}^{\infty} c^n\) हैं। बिन्दु \(\frac{1}{x}, \frac{1}{y}, \frac{1}{z}\) समांतर रेखाएँ में हैं,

तो:

Options :
70819142453. \ a, b तथा c समांतर रेखाएँ में हैं

70819142454. \ a, b तथा c गुणोत्तर रेखाएँ में हैं

70819142455. \ a, 2b तथा c समांतर रेखाएँ 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
Question Number : 5 Question Id : 70819112901 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1
\[ \sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!} \] वर्गबर्बर 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 : 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 : 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. \( a = -1, b = 1 \)
यदि \( y = \frac{ax - b}{(x-1)(x-4)} \) का एक चरम विन्दु \((2, -1)\) 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. \( a = -1, \ b = 1 \)

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. \( \frac{1}{13} \)
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:
- \( \frac{9}{13} \)
- \( \frac{15}{4} \)
- \( \frac{13}{9} \)
- \( \frac{1}{13} \)

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:
- \( \frac{7}{20} \)
- \( \frac{1}{20} \)
- \( \frac{19}{20} \)
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 प्रयास करते हैं, तो उस प्रश्न के उत्तर में से तीन एक के द्वारा हल होने की प्रायिकता है:

Options :
\[ \frac{7}{20} \]
\[ \frac{1}{20} \]
\[ \frac{19}{20} \]
\[ \frac{12}{20} \]

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 :
\[ \cos \frac{\pi}{2} + i \sin \frac{\pi}{2} \]
\[ 70819142481. \]
\[
\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}
\]

70819142482.

\[
\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}
\]

70819142483.

\[
\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}
\]

70819142484.

---

**Question Number : 11**

**Question Id : 70819112907**

**Question Type : MCQ**

**Option Shuffling : Yes**

**Is Question Mandatory : No**

**Correct Marks : 4**

**Wrong Marks : 1**

\[\text{मामला संख्या } \frac{1+i}{1-i} \text{ का धूमली रूप है :}\]

**Options :**

\[
\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}
\]

70819142481.

\[
\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}
\]

70819142482.

\[
\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}
\]

70819142483.

\[
\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}
\]

70819142484.

---

**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. 2

70819142486. 3

70819142487. 4

70819142488. 1

---

Question Number : 12  Question Id : 70819112908  Question Type : MCQ  Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4  Wrong Marks : 1

---

Options:

70819142485. 2

70819142486. 3

70819142487. 4

70819142488. 1

---

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

\[ \frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1 \] तथा \( (x+1)^2 + (y-1)^2 = 4 \) को उभयानिष्ठ 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:
\[
\begin{bmatrix}
1 & ka \\
0 & 1 \\
\end{bmatrix}
\]

70819142497.

\[
\begin{bmatrix}
1 & k^2a \\
0 & 1 \\
\end{bmatrix}
\]

70819142498.

\[
\begin{bmatrix}
k & ka \\
0 & k \\
\end{bmatrix}
\]

70819142499.

\[
\begin{bmatrix}
1 & ka \\
0 & 0 \\
\end{bmatrix}
\]

70819142500.

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 \( A^k (k \in \mathbb{N}) \) क्या है?

Options :

\[
\begin{bmatrix}
1 & ka \\
0 & 1 \\
\end{bmatrix}
\]

70819142497.

\[
\begin{bmatrix}
1 & k^2a \\
0 & 1 \\
\end{bmatrix}
\]

70819142498.

\[
\begin{bmatrix}
k & ka \\
0 & k \\
\end{bmatrix}
\]

70819142499.

\[
\begin{bmatrix}
1 & ka \\
0 & 0 \\
\end{bmatrix}
\]

70819142500.
The values of $s$ and $t$, for which the system of equations
\begin{align*}
x_1 + x_2 + x_3 &= 5 \\
x_1 + 2x_2 + 3x_3 &= 9 \\
x_1 + 3x_2 + sx_3 &= t
\end{align*}
has no solution, are:

Options:

70819142501. $s=5$, $t=13$

70819142502. $s \neq 5$

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

70819142504. $t \neq 13$

---

The values of $s$ and $t$, जिनके लिए समीकरण समाधी नहीं हैं,
\begin{align*}
x_1 + x_2 + x_3 &= 5 \\
x_1 + 2x_2 + 3x_3 &= 9 \\
x_1 + 3x_2 + sx_3 &= t
\end{align*}
का कोई हल नहीं है, है?

Options:

70819142501. $s=5$, $t=13$

70819142502. $s \neq 5$

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

\[ \frac{\pi}{6} \]

\[ \frac{\pi}{4} \]

\[ \frac{\pi}{3} \]

\[ \frac{5\pi}{12} \]
\[ \frac{\pi}{6} \]

\[ \frac{\pi}{4} \]

\[ \frac{\pi}{3} \]

\[ \frac{5\pi}{12} \]

**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. \[ x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x} \]
The values of $x$, for which the vectors $\vec{a} = (x^2 - 16)i + 4j - (x^2 - 25)k$ 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
The magnitude of a vector \( \mathbf{a} = (x^2 - 16) \mathbf{i} + 4 \mathbf{j} - (x^2 - 25) \mathbf{k} \) with respect to the coordinate axes is 20 units. If \( x \) is an odd integer, which of the following options are correct? Options:

1. \([-5, -4] \cup [4, 5]\)
2. \([-5, 4) \cup (-4, 5]\)
3. \((-5, -4) \cup (4, 5]\)
4. \((-5, 4) \cup (-4, 5]\)

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

\[
\int_{0}^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} \, dx \quad \text{is} \quad \underline{_________.}
\]
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 equal to \[ \underline{5 \text{ to } 5.001} \]

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 \[ \underline{\text{--------}} \]

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
किन्हें \((1, 2, 3)\) से \[ \frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2} \] पर डाले गए लम्ब की लम्बाई है \[ \_\_\_\_\_\_\_\_ \].
If \( \log_3 2, \log_3 (2^x - 5) \) and \( \log_3 \left( \frac{2^x - 7}{2} \right) \) are in Arithmetic Progression, then the value of \( x \) is \___________.

If \( \log_3 2, \log_3 (2^x - 5) \) तथा \( \log_3 \left( \frac{2^x - 7}{2} \right) \) समांतर श्रेणी में हैं, तो \( x \) का 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
If \( x^2 + x + 1 = 0 \), then \[ \left( x - \frac{1}{x} \right)^2 + \left( x^2 - \frac{1}{x^2} \right)^2 + \left( x^3 - \frac{1}{x^3} \right)^2 \] 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

यदि \( x^2 + x + 1 = 0 \) है, तो \[ \left( x - \frac{1}{x} \right)^2 + \left( x^2 - \frac{1}{x^2} \right)^2 + \left( x^3 - \frac{1}{x^3} \right)^2 \] का 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: 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
किन्द्र $(4, 5)$ से बृह त्रिज्या वाले स्वर्ण रेखाएं, दो जीवाओं के साथ एक चतुर्भुज बनाती हैं। इस चतुर्भुज का क्षेत्रफल, वर्ग इकाईयों 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
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

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 \([-\frac{3\pi}{2}, \frac{7\pi}{2}\)] of the equation \(4\sin^2 x - 8\sin x + 3 = 0\) is __________.

Response Type: Numeric
Evaluation Required For SA: Yes

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 \([-\frac{3\pi}{2}, \frac{7\pi}{2}\)] of the equation \(4\sin^2 x - 8\sin x + 3 = 0\) is __________.

Response Type: Numeric
Evaluation Required For SA: Yes

Possible Answers:
5 to 5.001
Let $A_1, A_2, A_3, \ldots$ 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 $\ldots$
Which among the following is the full form of the ‘UNESCO’?

Options:


70819142533. United Nations Entrance Site Calling Organization.

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

**Options:**

70819142531. युनाइटेड नेशंस एडुकेशनल, साइडन्टिफिक तथा कल्चरल ऑर्गनाइजेशन

70819142532. युनाइटेड नेशंस एडुकेशनल सिक्योरिटी कल्चरल ऑर्गनाइजेशन

70819142533. युनाइटेड नेशंस एंटरटेनमेंट साइट फॉरंग ऑर्गनाइजेशन

70819142534. युनाइटेड नेशंस एडुकेशनल, साइडन्टिफिक 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
<table>
<thead>
<tr>
<th>List - I</th>
<th>List - II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I) Hall of Nation</td>
<td>(a)</td>
</tr>
<tr>
<td>(II) Falling Water, Pennsylvania</td>
<td>(b)</td>
</tr>
<tr>
<td>(III) Petronas Tower</td>
<td>(c)</td>
</tr>
<tr>
<td>(IV) Secretariat</td>
<td>(d)</td>
</tr>
</tbody>
</table>

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)
(I) हॉल ऑफ नेशन (a)

(II) फालिंग चॉटर, पेनसिलवानिया (b)

(III) पेट्रोनस 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.

<table>
<thead>
<tr>
<th>List - I</th>
<th>List - II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kamru</td>
<td>Victoria Memorial Hall</td>
</tr>
<tr>
<td>Delhi</td>
<td>Badrinath Temple</td>
</tr>
<tr>
<td>Fatehpur Sikri</td>
<td>Khirki Masjid</td>
</tr>
<tr>
<td>Kolkata</td>
<td>Buland Darwaja</td>
</tr>
</tbody>
</table>

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

Question Number : 34 Question Id : 70819112930 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

<table>
<thead>
<tr>
<th>सूची I</th>
<th>सूची II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I) कामरू</td>
<td>(a) विक्टोरिया मेमोरियल हाउस</td>
</tr>
<tr>
<td>(II) दिल्ली</td>
<td>(b) ब्रदरानाथ मंदिर</td>
</tr>
<tr>
<td>(III) फतेहपुर सीकरी</td>
<td>(c) खिदमी मस्जिद</td>
</tr>
<tr>
<td>(IV) कोलकाता</td>
<td>(d) बुलंद दरवाजा</td>
</tr>
</tbody>
</table>

Options : (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

70819142539.

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)
Match List - I with List - II.

<table>
<thead>
<tr>
<th>List - I</th>
<th>List - II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I) Agra fort</td>
<td>(a)</td>
</tr>
<tr>
<td>(II) Atala Masjid</td>
<td>(b)</td>
</tr>
<tr>
<td>(III) Nalanda University</td>
<td>(c)</td>
</tr>
<tr>
<td>(IV) Jagannatha Temple</td>
<td>(d)</td>
</tr>
</tbody>
</table>

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)
निम्न सूची I को सूची II से मिलाइये।

सूची I

(I) आगरा का किला

सूची II

(II) अटला मस्जिद

(III) नालंदा विश्वविद्यालय

(IV) जगन्नाथ मंदिर

Options:

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

70819142544. (I)-(a), (II)-(b), (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.

<table>
<thead>
<tr>
<th>List - I</th>
<th>List - II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I) Yadvindra Garden</td>
<td>(a) Manali</td>
</tr>
<tr>
<td>(II) Vishnu Temple</td>
<td>(b) Amritsar</td>
</tr>
<tr>
<td>(III) Hidimba Temple</td>
<td>(c) Pinjore</td>
</tr>
<tr>
<td>(IV) Hari Mandir</td>
<td>(d) Buniyar</td>
</tr>
</tbody>
</table>

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)
लिस्ट - I को लिस्ट - II से मिलाइए।

<table>
<thead>
<tr>
<th>सूची I</th>
<th>सूची II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I) यादवंद्र गार्डन</td>
<td>(a) मनाली</td>
</tr>
<tr>
<td>(II) विष्णु मंदिर</td>
<td>(b) अमृतसर</td>
</tr>
<tr>
<td>(III) हिंदुम्बा मंदिर</td>
<td>(c) पिंजोर</td>
</tr>
<tr>
<td>(IV) हीर मंदिर</td>
<td>(d) चुनियर</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>List - I</th>
<th>List - II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I) Mehrangarh Fort</td>
<td>(a) Hyderabad</td>
</tr>
<tr>
<td>(II) Siri Fort</td>
<td>(b) Kolkata</td>
</tr>
<tr>
<td>(III) Golconda Fort</td>
<td>(c) Delhi</td>
</tr>
<tr>
<td>(IV) Fort William</td>
<td>(d) Jodhpur</td>
</tr>
</tbody>
</table>

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)
Question Number : 36 Question Id : 70819112932 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

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
Question Number : 37 Question Id : 70819112933 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1
‘गॉड ऑफ स्मॉल चिंग्स’ पुस्तक को किस भारतीय वास्तुशिल्पी ने लिखा है?
Options :
70819142555. बी.बी. दोशी
70819142556. अरुंधती राय
70819142557. रेकती कामल
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
Question Number : 38 Question Id : 70819112934 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1
‘झगेखा’ 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 मौसम 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
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 सीट 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 forts:

**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

‘विजय टॉवर’ निम्न में से किस फोर्ट से सम्बन्धित है?

**Options :**

70819142575. Chittor fort
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
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
‘चाल्यूम जीरो’ वृत्तचित्र निम्न में से किस वास्तुशिल्पी पर आधारित है?
Options :
70819142583. चार्ल्स कोरिया

70819142584. रिचर्ड मीयर

70819142585. जसबीर सचदेव

70819142586. रंजीत सबलिकी
‘Agenda 21’ is declaration related with:

Options:

- Climate change
- Global warming
- Sustainable development
- Smart city

‘घोषणा ‘एजेन्डा- 21’ निम में से किस से संबंधित है?

Options:

- जलवायु परिवर्तन
- वैश्विक वार्मिंग
- संधारणीय विकास
- स्मार्ट सिटी
Gold mines are situated in which state of India?

Options:
70819142591. Karnataka
70819142592. Orissa
70819142593. Maharashtra
70819142594. Uttar Pradesh

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

Options:
70819142591. कर्नाटक
70819142592. ओडिशा
70819142593. महाराष्ट्र
70819142594. उत्तर प्रदेश
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**

**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:**
Question Number : 48 Question Id : 70819112944 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1
पहला भारतीय चार्टर्ड सैंटर्स, जिसने 2018 में प्रतिज्ञा इनाम जीता है :
Options :
70819142599. ब.व. 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
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 उद्गाम निम्न में से किस से हुआ?

Options :
70819142603. बेंगलुरू (Bengaluru)
70819142604. बनारस (Banaras)
70819142605. बंगल (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
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 वास्तुकल्पी द्वारा IIM अहमदाबाद की रुपरेखा बनाई गई?

Options :

70819142607. लॉरी बेकर

70819142608. लुई कान

70819142609. ल्युटेंन

70819142610. ली कोर्बुज़ियर

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
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, चर्गों 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.

Question Number: 52 Question Id: 70819112948 Question Type: MCQ Option Shuffling: Yes
निम्न 3D आकृति को बनाने के लिए, सभी मोड़ों सहित एक ड्राइंग दी गई है। सही एक को चुनिए।

Options:

70819142615.

70819142616.

70819142617.

70819142618.
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:

1. 70819142619.
2. 70819142620.
3. 70819142621.
4. 70819142622.
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 चुनिए।

Options:

70819142619.
70819142620.
70819142621.
70819142622.
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.
निम्न प्रश्न आकृति एक वस्त्र के ऊपरी दृश्य के दर्शाता है। तीर की दिशा में देखते हुए, दी गई उत्तर आकृतियों में से सही एलेवेशन (elevation) को पहचानिए।

Options:

70819142623.

70819142624.

70819142625.

70819142626.
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.
प्रश्न आकृति में एक वस्तु के ऊपरी दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, ऊपर आकृतियों में से सही एलीवेशन (elevation) को पहचानिए।

**Options:**

70819142627.

70819142628.

70819142629.

70819142630.
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
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 चुनिए।

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

Options:

70819142639.

70819142640.

70819142641.

70819142642.
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.
Which one of the answer figures is correct mirror image of problem figure with respect to X-X?

Options:

70819142647.

70819142648.
उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिविम्ब है?

Options:
70819142647.
Question Number : 61 Question Id : 70819112957 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:

1. [Answer Figure]

2. [Answer Figure]

3. [Answer Figure]

4. [Answer Figure]
उत्तर आकृतियों में से कौन सी आकृति दी गई प्रश्न आकृति का X-X के सापेक्ष सही प्रतिबिम्ब है?

Options:

70819142651.

70819142652.

70819142653.

70819142654.
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X?

Options:

70819142655.

70819142656.

70819142657.
Question Number : 62 Question Id : 70819112958 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

Options:

70819142655.
70819142656.
70819142657.
Which one of the answer figures complete the sequence of the problem figure? Select the correct one.

Options:

70819142659.
70819142660.
70819142661.
उत्तर आकृतियों में से कौन सी आकृति को तीन अनुक्रमित प्रश्न आकृति में लगाने से अनुक्रम (sequence) पूरा हो जाएगा?

Options:

70819142659.

70819142660.

70819142661.
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.
3D आकृति में एक बस्तु के एक दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

Options:

70819142663.

70819142664.

70819142665.

70819142666.
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.
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.
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.
3D आकृति में एक वस्तु के एक दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृष्टि 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:

70819142675.

70819142676.

70819142677.
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.
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

Options:

70819142679.

70819142680.

70819142681.

70819142682.
3D आकृति में एक बस्तु के एक दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

Options:

70819142679.
70819142680.
70819142681.
70819142682.
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 बक्से 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.
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

Options:

70819142687.

70819142688.

70819142689.

70819142690.

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 दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, सही दृष्टि को उत्तर आकृतियों में से पहचानिए।

Options :

70819142687.

70819142688.

70819142689.

70819142690.

Question Number : 71 Question Id : 70819112967 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.
3D आकृति में एक वस्तु के एक दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, महीने दृश्य को उत्तर आकृतियों में से पहचानिए।

Options:

70819142691.

70819142692.

70819142693.

70819142694.

Question Number : 72 Question Id : 70819112968 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:

70819142695.

70819142696.

70819142697.

70819142698.
3D आकृति में एक बल्लू के एक दृश्य को दर्शाया गया है। तीर की दिशा में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

Options:

70819142695.

70819142696.

70819142697.

70819142698.
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.
3D आकृति में एक बस्तु 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.
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 को दिखाया में देखते हुए, सही दृश्य को उत्तर आकृतियों में से पहचानिए।

Options :

70819142703.

70819142704.

70819142705.

70819142706.

**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:

70819142707.

70819142708.

70819142709.

70819142710.
3D आकृति में एक बस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिए।

Options:

70819142707.

70819142708.

70819142709.

70819142710.
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

Options:

70819142711.

70819142712.

70819142713.

70819142714.
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

Options:

70819142712.
70819142713.
70819142714.
70819142715.
70819142716.
3D आकृति में एक बर्तन के एक दृष्टि को दिखाया गया है। इसका सही उत्तर दृश्य, उन्नर आकृतियों में से पहचानिए।

Options:

70819142715.
70819142716.
70819142717.
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.

(A)  

(B)  

(C)  

(D)  

Options :
70819142719. (A) and (B)
70819142720. (B) and (C)
70819142721. (C) and (D)
70819142722. (D) and (A)
नीचे दी गई आकृतियों में से टूटि-संबंधी कम तनाव के भवन घटकों को पहचानिए।

(A) ![Diagram A]
(B) ![Diagram B]
(C) ![Diagram C]
(D) ![Diagram D]

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:
70819142723. 
70819142724.
प्रश्न आकृति में एक वस्तु के ऊपरी दृश्य को दिखाया गया है। जीरो 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.
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 दृष्टि को दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से सही एलावेशन (elevation) को पहचानिए।

Options :

70819142727.

70819142728.

70819142729.
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. तौल एवं इस्माई

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

70819142735. नाइट्रोजन

70819142736. ग्रीनहाउस गैस

70819142737. ओजोन

70819142738. सस्पेंडेड पार्टिक्युलेट 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 → D → B → A → C
70819142740. E → B → C → D → A
70819142741. C → A → B → D → E
70819142742. A → D → C → B → E

Question Number : 83 Question Id : 70819112979 Question Type : MCQ Option Shuffling : Yes
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

A. कोडैक्काल  
B. कुलु  
C. माउंट अबु  
D. खंगानी  
E. पहलगाम

उपर 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 → D → B → A → C
70819142740. E → B → C → D → A
70819142741. C → A → B → D → 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.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 जोन 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
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 दीर्घवृत्त क्या है? सही उत्तर चुनिए।

Options:
70819142751. नेशनल हॉर्टिकल्फ्यू एसोसिएशन ऑफ इण्डिया।
70819142752. नेशनल हेरिटेज ऑथोरिटी ऑफ इण्डिया।
70819142753. नेशनल हायड्रोएल्क्रिक पॉवर 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 किने सत्ता विकास लक्ष्यों (Sustainable Development Goals) की चोपणा 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
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. superblocks
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**

Which of these is not an industrial city?

**Options :**
70819142763. चुरामुंडा
70819142764. रेडियल संचालना
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. Bhubaneshwar
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.
70819142768.
70819142769.
70819142770.

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.एम.आर.यु.टी.)

70819142772. मेक हन इण्डिया

70819142773. हदय (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
निम्नलिखित में से कौन-से दक्षिण भारतीय राज्य में, कुल भूमिगत जल क्षमता के अनुसार सबसे अधिक भूमिगत जल की खपत है (प्रतिलिपि 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 73rd amendment act (73rd 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
73rd अमेंडमेंट ऑफ्टिस (73rd CAA) 1992 नुमा सर्वेक्षण प्रमाण एक तृतीयांश महिलाओं के लिये आरक्षण नियमन में से किसमे दिया गया?

Options:
With reference to the diagram, choose the correct statement.
Options:

1. Slope of land on which school is located is flatter than the slope of land on which hospital is located.

2. Slope of land on which police station is located is steeper than the slope of land on which school is located.

3. Slope of land on which school is located is steeper than the slope of land on which temple is located.

4. Slope of land on which school is located is the same as the slope of land on which temple is located.
दिये हुए चित्र को देखकर हुए निम्नलिखित में से सही वाक्य चुनिए।

Options:
70819142787. उस जमीन का ढ्लान जिस पर स्कूल स्थित है, समतल है उस जमीन को तुलना में जिस पर अस्थायी स्थित है।

70819142788. जमीन जिस पर पुलिस स्टेशन है का ढ्लान तोड़ है, उस जमीन को तुलना में जिस पर स्कूल स्थित है।

70819142789. जमीन जिस पर स्कूल स्थित है का ढ्लान तीव्र है, उस जमीन की तुलना में जिस पर मंदिर स्थित है।

70819142790. जमीन जिस पर स्कूल स्थित है का ढ्लान एवं जमीन जिस पर मंदिर स्थित है का ढ्लान एक जैसे है।
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
नकाशावाचन (मैच 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
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.
दिये गये नकाशा में जलाश्य/तालाब कौनसे स्तर पर है?

Options:

70819142795. पुलिस घाटे से 5 मी. ऊपर

70819142796. पाठशाला से 5 मी. ऊपर

70819142797. पुलिस घाटे के स्तर पर

70819142798. पाठशाला के स्तर पर
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

- 40% LIG
- 20% HIG
- 40% MIG

College Education

- 50% LIG
- 40% HIG

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 : 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 km². 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.
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  

do not provide the options here.

Question Number : 100  Question Id : 70819112996  Question Type : MCQ  Option Shuffling : Yes  
Is Question Mandatory : No  
Correct Marks : 4 Wrong Marks : 1

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।

<table>
<thead>
<tr>
<th>साल</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2001</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1991</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1981</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

सही कथन चुनिए।

**Options:**

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

2. शहर ‘B’ 1981 से 2011 के बीच जनसंख्या को लगातार गिरता हुआ दिखाता है एवं शहर ‘A’ बढ़ता हुआ दिखाता है।
70819142808.

70819142809.

4. शहर ‘C’ विभिन्न दशकों में जनसंख्या घटन दिखाता है, एवं शहर ‘B’ बढ़ता दिखाता है।
70819142810.

**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.

<table>
<thead>
<tr>
<th>Vehicle Speed (km/hr)</th>
<th>No. of Vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>6</td>
</tr>
<tr>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>28</td>
<td>24</td>
</tr>
<tr>
<td>29</td>
<td>28</td>
</tr>
<tr>
<td>33</td>
<td>15</td>
</tr>
<tr>
<td>38</td>
<td>4</td>
</tr>
<tr>
<td>40</td>
<td>2</td>
</tr>
<tr>
<td>45</td>
<td>1</td>
</tr>
</tbody>
</table>

The median speed of the vehicles is:

**Options:**

70819142811. 26 km/hr

70819142812. 21.5 km/hr

70819142813. 30 km/hr

70819142814. 28.5 km/hr
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.

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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
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. Gloat
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 विषय दिए हैं, एक अभिकथन ‘A’ से सूचित है और दूसरा कारण ‘R’ से सूचित है।

अभिकथन A: पिछले दो दशकों में मानविक ध्यान अवधि घटने जा रही है।
कारण R: लंबित उपलब्धता एवं अधिक जानकारी की तीव्र पहुँच एक विषय को उबाल बना देती है।

ऊपर दिये हुए वाक्यों के अनुसार, नीचे दिये हुए वाक्यों में से सही वाक्य चुनिए।
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
निम्नलिखित दो विधान दिये है एक अभिकथन ‘A’ से सूचित है और दूसरा कारण ‘B’ से सूचित है।

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

कारण B: 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 B सही हैं एवं वाक्य R, वाक्य A का सही स्पष्टीकरण है।

70819142828. दोनों वाक्य A एवं B 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।