

CAREERS360

**JEE MAIN 2019 PAPER II
OFFICIAL QUESTION PAPER
WITH SOLUTIONS
(APRIL 7 SHIFT I & II)**

National Testing Agency

Question Paper Name: Paper II EH 7th April 2019 S1 S2
Subject Name: Paper II EH
Creation Date: 2019-04-07 14:22:38
Duration: 180
Total Marks: 390
Display Marks: Yes
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

Paper II

Group Number : 1
Group Id : 416529184
Group Maximum Duration : 0
Group Minimum Duration : 180
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 390

Mathematics

Section Id : 416529346
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 30
Number of Questions to be attempted: 30
Section Marks: 120
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 416529518
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 41652915580 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Let R be a relation defined on $Z \times Z$ by
 $(a, b) R (c, d) \Leftrightarrow a - d = b - c$, where Z is
the set of all integers, then R is :

Options :

reflexive but neither symmetric nor transitive.

41652960922

symmetric but neither reflexive nor transitive.

41652960923

transitive but neither reflexive nor symmetric.

41652960924

symmetric and transitive but not reflexive.

41652960925

Question Number : 1 Question Id : 41652915580 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $Z \times Z$ पर एक संबंध R निम्नरूप से परिभाषित है :

$(a, b) R (c, d) \Leftrightarrow a - d = b - c$, जहाँ Z सभी पूर्णाकों का समुच्चय है, तो सम्बंध R :

Options :

स्वतुल्य है परन्तु न सममित है और न ही संक्रामक है।

41652960922

सममित है परन्तु न स्वतुल्य है और न ही संक्रामक है।

41652960923

संक्रामक है परन्तु न स्वतुल्य है और न ही सममित है।

41652960924

सममित तथा संक्रामक है परन्तु स्वतुल्य नहीं है।

41652960925

Question Number : 2 Question Id : 41652915581 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $z (\neq -1)$ be any complex number such that $|z| = 1$. Then the imaginary part of

$\frac{\bar{z}(1-z)}{z(1+\bar{z})}$ is :

(Here $\theta = \arg z$)

Options :

$$-\tan\left(\frac{\theta}{2}\right) \sin\theta$$

41652960926.

$$\tan\left(\frac{\theta}{2}\right) \cos\theta$$

41652960927.

$$-\tan\left(\frac{\theta}{2}\right) \cos\theta$$

41652960928.

$$\tan\left(\frac{\theta}{2}\right) \sin\theta$$

41652960929.

Question Number : 2 Question Id : 41652915581 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $z (\neq -1)$ एक सम्मिश्र संख्या है, जबकि

$|z| = 1$ है, तो $\operatorname{Im}\left(\frac{\bar{z}(1-z)}{z(1+\bar{z})}\right)$ बराबर है :

(यहाँ $\theta = \arg z$)

Options :

$$-\tan\left(\frac{\theta}{2}\right) \sin\theta$$

41652960926.

$$\tan\left(\frac{\theta}{2}\right) \cos\theta$$

41652960927.

$$-\tan\left(\frac{\theta}{2}\right) \cos\theta$$

41652960928.

$$\tan\left(\frac{\theta}{2}\right) \sin\theta$$

41652960929.

Question Number : 3 Question Id : 41652915582 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The set of all real values of α for which the equation, $|x+2| \cdot |x-2| = \alpha^2 - 2\alpha$ has real solutions for x , is :

Options :

41652960930. $(-\infty, 0] \cup [2, \infty)$

41652960931. $(-\infty, 0] \cup [2, 1 + \sqrt{5}]$

41652960932. $[-1 - \sqrt{5}, 1 - \sqrt{5}] \cup [1 + \sqrt{5}, \infty)$

41652960933. $[1 - \sqrt{5}, 0] \cup [2, 1 + \sqrt{5}]$

Question Number : 3 Question Id : 41652915582 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

α के उन सभी वास्तविक मानों, जिनके लिए समीकरण

$$|x+2| \cdot |x-2| = \alpha^2 - 2\alpha, \text{ के } x \text{ में वास्तविक हल}$$

हैं, का समुच्चय है :

Options :

41652960930. $(-\infty, 0] \cup [2, \infty)$

41652960931. $(-\infty, 0] \cup [2, 1 + \sqrt{5}]$

41652960932. $[-1 - \sqrt{5}, 1 - \sqrt{5}] \cup [1 + \sqrt{5}, \infty)$

41652960933. $[1 - \sqrt{5}, 0] \cup [2, 1 + \sqrt{5}]$

Question Number : 4 Question Id : 41652915583 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let A be a 2×2 matrix such that

$$A^2 + A + I = 0, \text{ where } I = I_2. \text{ Then}$$

$|\text{adj}((I - A)^6)|$ is equal to :

Options :

41652960934. 3^3

41652960935. 3^4

41652960936. 3^6

41652960937. 3^9

Question Number : 4 Question Id : 41652915583 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना A एक 2×2 आव्यूह, जिसके लिए
 $A^2 + A + I = 0$, जबकि $I = I_2$ है, तो
 $|\text{adj}((I - A)^6)|$ बराबर है :

Options :

41652960934. 3^3

41652960935. 3^4

41652960936. 3^6

41652960937. 3^9

Question Number : 5 Question Id : 41652915584 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If the system of linear equations
 $x + 4y - 3z = 2$
 $2x + 7y - 4z = \alpha$
 $-x - 5y + 5z = \beta$
has infinitely many solutions, then the
ordered pair (α, β) cannot take the value :

Options :

41652960938. $(4, -2)$

41652960939. $(2, -4)$

41652960940. $(3, -3)$

41652960941. $(-3, 3)$

Question Number : 5 Question Id : 41652915584 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि रेखिक समीकरण निकाय

$$x + 4y - 3z = 2$$

$$2x + 7y - 4z = \alpha$$

$$-x - 5y + 5z = \beta$$

के अनन्त हल हैं, तो क्रमित युग्म (α, β) निम्न में से कौन सा युग्म नहीं हो सकता?

Options :

41652960938. $(4, -2)$

41652960939. $(2, -4)$

41652960940. $(3, -3)$

41652960941. $(-3, 3)$

Question Number : 6 Question Id : 41652915585 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let A be the set of all 3-digit natural numbers and $B = \{x \in A : \text{H.C.F.}(x, 15) = 1\}$.

Then the number of elements in B is :

Options :

41652960942. 420

41652960943. 360

41652960944. 480

41652960945. 240

Question Number : 6 Question Id : 41652915585 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना A, तीन अंकों वाली सभी प्राकृत संख्याओं का समुच्चय है तथा $B = \{x \in A : \text{H.C.F.}(x, 15) = 1\}$ है, तो B के अवयवों की संख्या है :

Options :

41652960942. 420

41652960943. 360

41652960944. 480

41652960945. 240

Question Number : 7 Question Id : 41652915586 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If r is the remainder obtained on dividing $(98)^5$ by 12, then the coefficient of x^3 in the

Binomial expansion of $\left(1 + \frac{x}{2}\right)^{2r}$ is :

Options :

41652960946. $\frac{55}{2}$

41652960947. $\frac{91}{2}$

41652960948. 102

41652960949. 70

Question Number : 7 Question Id : 41652915586 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि $(98)^5$ को 12 से विभाजित करने पर शेषफल r है,

तो $\left(1 + \frac{x}{2}\right)^{2r}$ के द्विपद प्रसार में, x^3 का गुणांक है :

Options :

41652960946. $\frac{55}{2}$

41652960947. $\frac{91}{2}$

41652960948. 102

41652960949. 70

Question Number : 8 Question Id : 41652915587 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In an increasing geometric series, the sum of the first and the sixth term is 66 and the product of the second and the fifth terms is 128. Then the sum of the first 6 terms of this series is :

Options :

41652960950. 127

41652960951. 129

41652960952. 126

41652960953. 128

Question Number : 8 Question Id : 41652915587 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक वर्धमान गुणोत्तर श्रेणी में, पहले और छठे पदों का योगफल 66 है और दूसरे तथा पाँचवे पदों का गुणनफल 128 है, तो श्रेणी के पहले 6 पदों का योगफल है :

Options :

41652960950. 127

41652960951. 129

41652960952. 126

41652960953. 128

Question Number : 9 Question Id : 41652915588 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The sum of the infinite series

$$1 + 2 + \frac{2}{3} + \frac{6}{3^2} + \frac{10}{3^3} + \frac{14}{3^4} + \dots \text{ is :}$$

Options :

41652960954. 4

41652960955. 5

41652960956. 6

41652960957. $\frac{9}{2}$

Question Number : 9 Question Id : 41652915588 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

अनन्त श्रेणी

$$1 + 2 + \frac{2}{3} + \frac{6}{3^2} + \frac{10}{3^3} + \frac{14}{3^4} + \dots$$

का योगफल बराबर है :

Options :

41652960954. 4

41652960955. 5

41652960956. 6

41652960957. $\frac{9}{2}$

Question Number : 10 Question Id : 41652915589 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$$\lim_{x \rightarrow 3} \frac{\sqrt{x+6} - \sin(x-3) - 3}{(x-3)\cos(x-3)} \text{ is equal}$$

to :

Options :

41652960958. $\frac{5}{6}$

41652960959. $\frac{1}{6}$

41652960960. $-\frac{2}{3}$

41652960961. $\frac{5}{6}$

Question Number : 10 Question Id : 41652915589 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

$\lim_{x \rightarrow 3} \frac{\sqrt{x+6} - \sin(x-3) - 3}{(x-3)\cos(x-3)}$ बराबर है :

Options :
41652960958. $\frac{5}{6}$

41652960959. $\frac{1}{6}$

41652960960. $-\frac{2}{3}$

41652960961. $-\frac{5}{6}$

Question Number : 11 Question Id : 41652915590 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Let f be a continuous function defined by

$$f(x) = \begin{cases} \frac{a \sin 2x - b \cos x}{\frac{\pi}{2} - x} & , x > \frac{\pi}{2} \\ 4 & , x = \frac{\pi}{2} \\ \frac{2b \cos x}{\frac{\pi}{2} - x} & , x < \frac{\pi}{2} \end{cases}$$

Then the value of $a + b$ is :

Options :
41652960962. 1

41652960963. 4

41652960964. 5

Question Number : 11 Question Id : 41652915590 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना संतत फलन f निम्न प्रकार से परिभाषित है :

$$f(x) = \begin{cases} \frac{a \sin 2x - b \cos x}{\frac{\pi}{2} - x} & , x > \frac{\pi}{2} \\ 4 & , x = \frac{\pi}{2} \\ \frac{2b \cos x}{\frac{\pi}{2} - x} & , x < \frac{\pi}{2} \end{cases}$$

तो $a + b$ का मान है :

Options :

41652960962. 1

41652960963. 4

41652960964. 5

41652960965. 8

Question Number : 12 Question Id : 41652915591 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let y be an implicit function of x defined

$$\text{by } \begin{vmatrix} x + y & 2 & 1 \\ 1 & x + y & 2 \\ 1 & 2 & x + y \end{vmatrix} + 12y = 0.$$

If $y(0) = -1$, then $\frac{dy}{dx}$ at $x = 0$ is :

Options :

41652960966. $\frac{1}{2}$

41652960967. $-\frac{1}{2}$

41652960968. $\frac{5}{4}$

41652960969. $-\frac{4}{5}$

Question Number : 12 Question Id : 41652915591 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना y, x का अस्पष्ट (implicit) फलन
निम्न प्रकार से परिभाषित है :

$$\begin{vmatrix} x+y & 2 & 1 \\ 1 & x+y & 2 \\ 1 & 2 & x+y \end{vmatrix} + 12y = 0.$$

यदि $y(0) = -1$, तो $x=0$ पर $\frac{dy}{dx}$ का मान है :

Options :

41652960966. $\frac{1}{2}$

41652960967. $-\frac{1}{2}$

41652960968. $\frac{5}{4}$

41652960969. $-\frac{4}{5}$

Question Number : 13 Question Id : 41652915592 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $f : \mathbb{R} - \{0\} \rightarrow \mathbb{R}$ be defined by

$$f(x) = a \log_e |x| + bx^3 + x^2.$$

If $x = -1$ and $x = 1$ are the critical points of
 $f(x)$, then :

Options :

41652960970. $f''(1) + f''(-1) = 0$

41652960971. $f''(1) - f''(-1) = 4$

both $x=1$ and $x=-1$ are local minima of $f(x)$

41652960972

$x=1$ is a local minima and $x=-1$ is a local maxima of $f(x)$

41652960973

Question Number : 13 Question Id : 41652915592 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $f: \mathbb{R} - \{0\} \rightarrow \mathbb{R}$, निम्न प्रकार से परिभाषित है :

$$f(x) = a \log_e |x| + bx^3 + x^2,$$

यदि $x=-1$ तथा $x=1$, $f(x)$ के दो क्रान्तिक बिन्दु हैं, तो :

Options :

41652960970. $f'''(1) + f'''(-1) = 0$

41652960971. $f''(1) - f''(-1) = 4$

41652960972. $x=1$ तथा $x=-1$, दोनों $f(x)$ के स्थानीय निम्नतम बिन्दु हैं।

41652960973. $f(x)$ का $x=1$, एक स्थानीय निम्नतम बिन्दु है तथा $x=-1$, एक स्थानीय उच्चतम बिन्दु है।

Question Number : 14 Question Id : 41652915593 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $f: [0, 5] \rightarrow \mathbb{R}$ be a continuous function such that $|f(x)| \leq 3$ for all $x \in [0, 5]$ and

$$\int_0^5 f(t) dt = 3. \text{ Then the value of } \int_0^3 f(t) dt$$

can be :

Options :

41652960974. -4

41652960975. 6

41652960976. 10

41652960977. 12

Question Number : 14 Question Id : 41652915593 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $f: [0, 5] \rightarrow \mathbb{R}$ एक संतत फलन इस प्रकार है कि सभी $x \in [0, 5]$ के लिए $|f(x)| \leq 3$ तथा

$\int_0^5 f(t)dt = 3$ है, तो $\int_0^3 f(t)dt$ निम्न में से किसके

बराबर हो सकता है?

Options :

41652960974. -4

41652960975. 6

41652960976. 10

41652960977. 12

Question Number : 15 Question Id : 41652915594 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$\int \frac{\sec x}{\sqrt{\sin x \cdot \cos^5 x}} dx$ is equal to :

(where C is a constant of integration)

Options :

41652960978. $2(\tan x)^{\frac{1}{2}} + \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

41652960979. $(\tan x)^{\frac{1}{2}} + \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

41652960980. $2(\tan x)^{\frac{1}{2}} + \frac{1}{5}(\tan x)^{\frac{5}{2}} + C$

41652960981. $2(\tan x)^{\frac{1}{2}} - \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

Question Number : 15 Question Id : 41652915594 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$$\int \frac{\sec x}{\sqrt{\sin x \cdot \cos^5 x}} dx \text{ बराबर है :}$$

(जहाँ C एक समाकलन अचर है)

Options :

41652960978 $2(\tan x)^{\frac{1}{2}} + \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

41652960979 $(\tan x)^{\frac{1}{2}} + \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

41652960980 $2(\tan x)^{\frac{1}{2}} + \frac{1}{5}(\tan x)^{\frac{5}{2}} + C$

41652960981 $2(\tan x)^{\frac{1}{2}} - \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

Question Number : 16 Question Id : 41652915595 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The value of $\int_{-3}^3 \frac{5x^4}{1 + e^{-x}} dx$ is :

Options :

41652960982 $2(3^5)$

41652960983 3^5

41652960984 $\frac{3^5}{5}$

41652960985 3^4

Question Number : 16 Question Id : 41652915595 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$\int_{-3}^3 \frac{5x^4}{1 + e^{-x}} dx$ का मान बराबर है :

Options :

41652960982. $2(3^5)$

41652960983. 3^5

41652960984. $\frac{3^5}{5}$

41652960985. 3^4

Question Number : 17 Question Id : 41652915596 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) above the x -axis bounded by the parabola, $x - y^2 - 1 = 0$ and the line $x - y - 3 = 0$ is :

Options :

41652960986. $\frac{8}{3}$

41652960987. $\frac{10}{3}$

41652960988. 4

41652960989. $\frac{13}{3}$

Question Number : 17 Question Id : 41652915596 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

परवलय, $x - y^2 - 1 = 0$ तथा रेखा $x - y - 3 = 0$ से घिरे हुए और x -अक्ष के ऊपर बने क्षेत्र का क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

41652960986. $\frac{8}{3}$

41652960987. $\frac{10}{3}$

41652960988. 4

$\frac{13}{3}$

41652960989.

Question Number : 18 Question Id : 41652915597 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let the tangent drawn at any point $P(x, y)$ on a curve intersect the x and y axes at two distinct points A and B respectively. If $AP : PB = 5 : 1$, and the curve passes through the point $(2, 2)$ then an equation of the curve is :

Options :

41652960990. $xy^5 = 2^6$

41652960991. $xy^4 = 2^5$

41652960992. $x^4y = 2^5$

41652960993. $x^5y = 2^6$

Question Number : 18 Question Id : 41652915597 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना एक वक्र के किसी बिन्दु $P(x, y)$ पर खींची गई स्पर्शरेखा x तथा y -अक्षों को क्रमशः दो भिन्न बिन्दुओं A तथा B पर काटती है। यदि $AP : PB = 5 : 1$ है और वक्र बिन्दु $(2, 2)$ से होकर जाता है, तो वक्र का एक समीकरण है :

Options :

41652960990. $xy^5 = 2^6$

41652960991. $xy^4 = 2^5$

41652960992. $x^4y = 2^5$

41652960993. $x^5y = 2^6$

Question Number : 19 Question Id : 41652915598 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let A(1, 3) and C(5, 1) be two opposite vertices of a rectangle. The other two vertices B(a, b) and D(c, d) lie on the line $y = 2x + k$ for some k. Then the value of $(a + b) \cdot (c + d)$ is :

Options :

41652960994. 8

41652960995. 16

41652960996. 24

41652960997. 32

Question Number : 19 Question Id : 41652915598 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना A(1, 3) तथा C(5, 1) एक आयत के सम्मुख शीर्ष हैं। इसके अन्य दो शीर्ष B(a, b) तथा D(c, d) किसी k के लिए, रेखा $y = 2x + k$ पर स्थित हैं, तो $(a + b) \cdot (c + d)$ का मान है :

Options :

41652960994. 8

41652960995. 16

41652960996. 24

41652960997. 32

Question Number : 20 Question Id : 41652915599 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let the abscissae of two points A and B on a circle be the roots of $x^2 + 2x - 4 = 0$ and the ordinates of A and B be the roots of $y^2 + 4y - 16 = 0$. If AB is a diameter of this circle, then the radius of this circle is :

Options :

41652960998. 5

41652960999. 6

41652961000. $2\sqrt{6}$

41652961001. $2\sqrt{10}$

Question Number : 20 Question Id : 41652915599 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना एक वृत्त पर दो बिन्दुओं A तथा B के भुज (abscissae), $x^2 + 2x - 4 = 0$ के मूल हैं तथा A और B के कोटि (ordinates), $y^2 + 4y - 16 = 0$ के मूल हैं। यदि AB इस वृत्त का एक व्यास है, तो इसकी त्रिज्या बराबर है :

Options :

41652960998. 5

41652960999. 6

41652961000. $2\sqrt{6}$

41652961001. $2\sqrt{10}$

Question Number : 21 Question Id : 41652915600 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let P be the point on the parabola $y^2 = 3x$

such that OP makes an angle of $\frac{\pi}{6}$ with the

x-axis, where O is the origin. A normal is drawn to the parabola at P intersecting the axis of the parabola at Q. If S is the focus of the parabola, then SQ is equal to :

Options :

41652961002. $\frac{39}{2}$

39

41652961003. $\frac{4}{4}$

9

41652961004.

41

41652961005. $\frac{4}{4}$

Question Number : 21 Question Id : 41652915600 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना O मूलबिन्दु है, P परवलय, $y^2 = 3x$ पर एक

बिन्दु है और OP तथा x -अक्ष के बीच का कोण $\frac{\pi}{6}$

है। परवलय के इस बिन्दु P पर खींचा गया अभिलम्ब, इसके अक्ष को Q पर काटता है। यदि परवलय का नाभिकेन्द्र S है, तो SQ बराबर है :

Options :

39

41652961002. $\frac{2}{2}$

39

41652961003. $\frac{4}{4}$

9

41652961004.

41

41652961005. $\frac{4}{4}$

Question Number : 22 Question Id : 41652915601 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let the ellipse $x^2 + 16y^2 = 16$ be inscribed in a rectangle whose sides are parallel to the coordinate axes. If the rectangle is inscribed in another ellipse that passes through the point $(16, 0)$, then the equation of the outer ellipse is :

Options :

41652961006. $x^2 + 256y^2 = 16^2$

41652961007. $x^2 + 248y^2 = 16^2$

41652961008. $x^2 + 240y^2 = 16^2$

41652961009. $x^2 + 232y^2 = 16^2$

Question Number : 22 Question Id : 41652915601 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक दीर्घवृत्त, $x^2 + 16y^2 = 16$, एक आयत जिसकी भुजाएँ निर्देशांक अक्षों के समान्तर हैं, के अन्तर्गत बनाया गया है। यह आयत, एक और दीर्घवृत्त के अन्तर्गत बनाया गया है। यदि यह दीर्घवृत्त बिन्दु $(16, 0)$ से हो कर जाता है, तो इसका समीकरण है :

Options :

41652961006. $x^2 + 256y^2 = 16^2$

41652961007. $x^2 + 248y^2 = 16^2$

41652961008. $x^2 + 240y^2 = 16^2$

41652961009. $x^2 + 232y^2 = 16^2$

Question Number : 23 Question Id : 41652915602 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let the planes $x - 2y + kz = 0$ and $x + 5y - z = 0$ be perpendicular. Then the plane through the point $(2, -2, -2)$ and perpendicular to the given planes also passes through the point :

Options :

41652961010. $(0, 5, 8)$

41652961011. $(0, 5, -8)$

41652961012. $(-1, 0, -7)$

41652961013. $(1, 0, 7)$

Question Number : 23 Question Id : 41652915602 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना समतल $x - 2y + kz = 0$ तथा $x + 5y - z = 0$
परस्पर लम्बवत् हैं। तो वह समतल जो बिन्दु
(2, -2, -2) से होकर जाता है तथा दिए गए समतलों
के लम्बवत् है, निम्न में से किस बिन्दु से होकर जाता
है?

Options :

41652961010. (0, 5, 8)

41652961011. (0, 5, -8)

41652961012. (-1, 0, -7)

41652961013. (1, 0, 7)

Question Number : 24 Question Id : 41652915603 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If the two lines $\frac{x - 2m}{2m + 5} = \frac{y}{8m} = \frac{z - 4}{2}$

and $\frac{x - 2}{m - 2} = \frac{y}{-1} = \frac{z - 2m}{1 - 3m}$ are parallel

for some $m \in \mathbb{R}$, then the distance between
them is :

Options :

41652961014. $\sqrt{10}$

41652961015. $2\sqrt{5}$

41652961016. $\sqrt{29}$

41652961017. $\sqrt{34}$

Question Number : 24 Question Id : 41652915603 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि किसी $m \in \mathbb{R}$ के लिए, दो रेखाएँ

$$\frac{x - 2m}{2m + 5} = \frac{y}{8m} = \frac{z - 4}{2} \quad \text{तथा}$$

$\frac{x - 2}{m - 2} = \frac{y}{-1} = \frac{z - 2m}{1 - 3m}$ समान्तर हैं, तो दोनों के बीच की दूरी है :

Options :

41652961014. $\sqrt{10}$

41652961015. $2\sqrt{5}$

41652961016. $\sqrt{29}$

41652961017. $\sqrt{34}$

Question Number : 25 Question Id : 41652915604 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If three vectors $\vec{V}_1 = \alpha \hat{i} + \hat{j} + \hat{k}$,

$\vec{V}_2 = \hat{i} + \beta \hat{j} - 2\hat{k}$ and $\vec{V}_3 = \hat{i} + \hat{j}$ are

coplanar, and \vec{V}_1 and \vec{V}_3 are

perpendicular, then the vector $\vec{V}_1 \times \vec{V}_2$ is :

Options :

41652961018. $-\hat{i} + \hat{j} + 2\hat{k}$

41652961019. $\hat{i} - \hat{j} + 2\hat{k}$

41652961020. $-\hat{i} + \hat{j}$

41652961021. $2\hat{i} - 2\hat{j} + \hat{k}$

Question Number : 25 Question Id : 41652915604 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि तीन सदिश $\vec{V}_1 = \alpha \hat{i} + \hat{j} + \hat{k}$,

$\vec{V}_2 = \hat{i} + \beta \hat{j} - 2\hat{k}$ तथा $\vec{V}_3 = \hat{i} + \hat{j}$

समतलीय हैं, तथा \vec{V}_1 और \vec{V}_3 परस्पर लम्बवत् हैं,

तो सदिश $\vec{V}_1 \times \vec{V}_2$ है :

Options :

41652961018. $-\hat{i} + \hat{j} + 2\hat{k}$

41652961019. $\hat{i} - \hat{j} + 2\hat{k}$

41652961020. $-\hat{i} + \hat{j}$

41652961021. $2\hat{i} - 2\hat{j} + \hat{k}$

Question Number : 26 Question Id : 41652915605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If x_1, x_2, \dots, x_n be the observed data such

that $\sum_{i=1}^n x_i - 2n = 180$ and

$\sum_{i=1}^n x_i - 7n = 30$, then the mean of the

data $(x_1 - 3), (x_2 - 3), \dots, (x_n - 3)$ is equal
to :

Options :

41652961022. 5

41652961023. 8

41652961024. $\frac{13}{3}$

41652961025. $\frac{16}{3}$

Question Number : 26 Question Id : 41652915605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि प्रेक्षण x_1, x_2, \dots, x_n इस प्रकार हैं कि

$$\sum_{i=1}^n x_i - 2n = 180 \text{ तथा } \sum_{i=1}^n x_i - 7n = 30, \text{ तो}$$

आंकड़ों $(x_1 - 3), (x_2 - 3), \dots, (x_n - 3)$ का माध्य है :

Options :

41652961022. $\frac{5}{3}$

41652961023. $\frac{8}{3}$

41652961024. $\frac{13}{3}$

41652961025. $\frac{16}{3}$

Question Number : 27 Question Id : 41652915606 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If for two events A and B, in a random

experiment, $P(A | B) = \frac{4}{5}$ and $P(B | A) = \frac{1}{4}$,

then $P(A | A \cup B)$ is equal to :

Options :

41652961026. $\frac{5}{16}$

41652961027. $\frac{5}{17}$

41652961028. $\frac{16}{17}$

41652961029. $\frac{11}{16}$

Question Number : 27 Question Id : 41652915606 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि एक यादृच्छिक प्रयोग में, दो घटनाओं A तथा B

के लिए $P(A|B) = \frac{4}{5}$ तथा $P(B|A) = \frac{1}{4}$ है, तो

$P(A|A \cup B)$ बराबर है :

Options :

41652961026. $\frac{5}{16}$

41652961027. $\frac{5}{17}$

41652961028. $\frac{16}{17}$

41652961029. $\frac{11}{16}$

Question Number : 28 Question Id : 41652915607 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If $6 \cos^2\theta - 2 \cos 2\theta - 3 = 0$, then $\tan^2 3\theta$ is
equal to :

Options :

41652961030. $\frac{1}{3}$

41652961031. 1

41652961032. 3

41652961033. $\frac{9}{2}$

Question Number : 28 Question Id : 41652915607 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि $6 \cos^2\theta - 2 \cos 2\theta - 3 = 0$ है, तो $\tan^2 3\theta$ बराबर
है :

Options :

41652961030. $\frac{1}{3}$

41652961031. 1

41652961032. 3

41652961033. $\frac{9}{2}$

Question Number : 29 Question Id : 41652915608 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If a , b and c (all distinct) are the sides of a triangle ABC opposite to the angles A , B and C , respectively, then

$\frac{c \sin(A - B)}{a^2 - b^2} - \frac{b \sin(C - A)}{c^2 - a^2}$ is equal to :

Options :

41652961034. 0

41652961035. 1

41652961036. 2

41652961037. -1

Question Number : 29 Question Id : 41652915608 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि a , b तथा c (सभी विभिन्न) एक त्रिभुज ABC की भुजाएँ हैं जो, क्रमशः, इसके कोणों A , B तथा C के

सम्मुख हैं, तो $\frac{c \sin(A - B)}{a^2 - b^2} - \frac{b \sin(C - A)}{c^2 - a^2}$

बराबर है :

Options :

41652961034. 0

41652961035. 1

41652961036. 2

41652961037. -1

Question Number : 30 Question Id : 41652915609 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The expression $\sim(p \leftrightarrow q)$ is equivalent

to :

Options :

41652961038. $(p \wedge \sim q) \wedge (q \wedge \sim p)$

41652961039. $p \vee q$

41652961040. $p \wedge \sim q$

41652961041. $(\sim p \wedge q) \vee (\sim q \wedge p)$

Question Number : 30 Question Id : 41652915609 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

व्यंजक $\sim(p \leftrightarrow q)$ निम्न में से किसके समतुल्य है?

Options :

41652961038. $(p \wedge \sim q) \wedge (q \wedge \sim p)$

41652961039. $p \vee q$

41652961040. $p \wedge \sim q$

41652961041. $(\sim p \wedge q) \vee (\sim q \wedge p)$

Aptitude Test

Section Id :	416529347
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	8
Number of Questions to be attempted:	8
Section Marks:	200
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number: 1
Sub-Section Id: 416529519

Question Id : 41652915610 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (31 to 45)

Question Label : Comprehension

Sub questions

Question Number : 31 Question Id : 41652915611 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A small lift for carrying small loads only is known as which of the following ?

Options :

41652961042. A deaf bearer

41652961043. A dumb waiter

41652961044. A jockey boy

41652961045. A push upper

Question Number : 32 Question Id : 41652915612 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Hindustan Parryware in the Indian market is known for which of the following product ?

Options :

41652961046. Pipes

41652961047. Sanitary ware

41652961048. Wall tiles

41652961049. Wooden tables

Question Number : 33 Question Id : 41652915613 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a UNESCO World Heritage Site ?

Options :

41652961050. Kochi

41652961051. Hampi

41652961052. Bijnor

41652961053. Bijapur

Question Number : 34 Question Id : 41652915614 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most famous temple in the Khajuraho group of temples is which one of the following ?

Options :

41652961054. Shiva Temple

41652961055. Kandariya Mahadev Temple

41652961056. Ganesh Temple

41652961057. Krishna Temple

Question Number : 35 Question Id : 41652915615 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Parquet flooring is usually made of which of the following ?

Options :

41652961058. Granite

41652961059. Marble

41652961060. Cement

41652961061. Wood

Question Number : 36 Question Id : 41652915616 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The fort in Hyderabad is known as which of the following ?

Options :

41652961062. Bahubali

41652961063. Golconda

41652961064. Siladhari

41652961065. Virbanda

Question Number : 37 Question Id : 41652915617 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the tallest building in Bengaluru ?

Options :

41652961066. World Trade Centre

41652961067. Mantri Pinnacle

41652961068. Concord Tower

41652961069. U B Tower

Question Number : 38 Question Id : 41652915618 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Sas Bahu Temple is located in which of the following ?

Options :

41652961070. Red Fort

41652961071. Jhansi Fort

41652961072. Gwalior Fort

41652961073. Jaipur Fort

Question Number : 39 Question Id : 41652915619 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which amongst the following is the city in Italy that is known for its leaning tower ?

Options :

41652961074. Venice

41652961075. Florence

41652961076. Rome

41652961077. Pisa

Question Number : 40 Question Id : 41652915620 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Lotus Temple is located in which one of the following city ?

Options :

41652961078. New Delhi

41652961079. Nagpur

41652961080. Kanpur

41652961081. Lucknow

Question Number : 41 Question Id : 41652915621 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cement Plaster is used for which of the following ?

Options :

41652961082. Covering walls

41652961083. Making roofs

41652961084. Making staircases

41652961085. Making floors

Question Number : 42 Question Id : 41652915622 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Helical staircases are which one of the following ?

Options :

41652961086. Dog leg staircases

41652961087. Curving staircases

41652961088. Straight flights

41652961089. Staircases with no railings

Question Number : 43 Question Id : 41652915623 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An escalator moves in which of the following directions ?

Options :

41652961090. Only vertically

41652961091. Only horizontally

41652961092. Vertically and Horizontally

41652961093. In steps

Question Number : 44 Question Id : 41652915624 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Rooms with white painted walls appears to be which of the following ?

Options :

41652961094. Smaller

41652961095. Larger

41652961096. Darker

41652961097. Narrower

Question Number : 45 Question Id : 41652915625 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Zaha Hadid was born in which country amongst the following ?

Options :

41652961098. Iran

41652961099. Iraq

41652961100. Afghanistan

41652961101. Turkistan

Question Id : 41652915610 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (31 to 45)

Question Label : Comprehension

Sub questions

Question Number : 31 Question Id : 41652915611 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

केवल छोटे भार उठाने के लिए एक छोटी लिफ्ट को निम्नलिखित में से किसके रूप में जाना जाता है?

Options :

41652961042. एक बहरा बेटर

41652961043. गूंगा (डम्ब) बेटर

41652961044. एक जॉकी लड़का

41652961045. एक धक्का ऊपरी

Question Number : 32 Question Id : 41652915612 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

भारतीय बाजार में हिंदुस्तान पैरीबेयर निम्नलिखित में से किस उत्पाद के लिए जाना जाता है?

Options :

41652961046. पाइप्स

41652961047. सेनेटरी बेयर (स्वच्छता सम्बन्धी सामान)

41652961048. दीवार की टाइल

41652961049. लकड़ी की मेज

Question Number : 33 Question Id : 41652915613 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा एक यूनेस्को विश्व धरोहर स्थल है?

Options :

41652961050. कोच्चि

41652961051. हम्पी

41652961052. बिजनौर

41652961053. बीजापुर

Question Number : 34 Question Id : 41652915614 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

खजुराहो समूह के मंदिरों में सबसे प्रसिद्ध मंदिर निम्नलिखित में से कौन सा है?

Options :

41652961054. शिव मंदिर

41652961055. कंदरिया महादेव मंदिर

41652961056. गणेश मंदिर

41652961057. कृष्णा मंदिर

Question Number : 35 Question Id : 41652915615 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

पारक्वेट फर्श आमतौर पर निम्नलिखित में से किससे बनता है?

Options :

41652961058. ग्रेनाइट

41652961059 संगमरमर

41652961060 सीमेंट

41652961061 लकड़ी

Question Number : 36 Question Id : 41652915616 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

हैदराबाद में किले को निम्नलिखित में से किसके नाम से जाना जाता है?

Options :

41652961062 बाहुबली

41652961063 गोलकुंडा

41652961064 सिलाधारी

41652961065 वीरबन्दा

Question Number : 37 Question Id : 41652915617 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन-सी बेंगलुरु की सबसे ऊँची इमारत है?

Options :

41652961066 विश्व व्यापार केंद्र

41652961067 मन्त्री शिखर

41652961068 कॉनकोर्ड टॉवर

41652961069 यू बी टॉवर

Question Number : 38 Question Id : 41652915618 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

सास बहू मंदिर निम्नलिखित में से किस में स्थित है?

Options :

41652961070. लाल किला

41652961071. झाँसी का किला

41652961072. ग्वालियर का किला

41652961073. जयपुर किला

Question Number : 39 Question Id : 41652915619 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

इटली का वह शहर कौन सा है जो अपने झुकाव टॉवर
के लिए जाना जाता है?

Options :

41652961074. वेनिस

41652961075. फ्लोरेंस

41652961076. रोम

41652961077. पीसा

Question Number : 40 Question Id : 41652915620 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

लोटस टेम्पल निम्नलिखित में से किस शहर में स्थित
है?

Options :

41652961078. नई दिल्ली

41652961079. नागपुर

41652961080. कानपुर

41652961081. लखनऊ

Question Number : 41 Question Id : 41652915621 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

सीमेंट प्लास्टर का उपयोग निम्नलिखित में से किसके लिए किया जाता है?

Options :

41652961082. दीवारों को ढंकना

41652961083. छत बनाना

41652961084. सीढ़ियाँ बनाना

41652961085. फर्श बनाना

Question Number : 42 Question Id : 41652915622 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

चक्करदार सीढ़ियाँ निम्नलिखित में से कौन सी हैं?

Options :

41652961086. डोंग लेग सीढ़ियाँ

41652961087. घूमती सीढ़ियाँ

41652961088. सीधी उड़ान

41652961089. बिना किसी रेलिंग के सीढ़ियाँ

Question Number : 43 Question Id : 41652915623 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एस्केलेटर निम्नलिखित में से किस दिशा में चलता है?

Options :

41652961090. केवल लंबवत

41652961091. केवल क्षैतिज

41652961092. ऊर्ध्वाधर और क्षैतिज रूप से

41652961093. कदमों में

Question Number : 44 Question Id : 41652915624 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

सफेद रंग की दीवारों वाले कमरे निम्नलिखित में से कौन से प्रतीत होते हैं ?

Options :

41652961094 छोटे

41652961095 बड़े

41652961096 गहरे

41652961097 संकरे

Question Number : 45 Question Id : 41652915625 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

ज़ाहा हदीद निम्नलिखित में से किस देश में पैदा हुई थी ?

Options :

41652961098 ईरान

41652961099 इराक

41652961100 अफगानिस्तान

41652961101 तुर्किस्तान

Sub-Section Number: 2
Sub-Section Id: 416529520
Question Shuffling Allowed : Yes

Question Id : 41652915626 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 50)

Question Label : Comprehension

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

Sub questions

Question Number : 46 Question Id : 41652915627 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961102.



41652961103.



41652961104.



41652961105.



Question Number : 47 Question Id : 41652915628 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961106.



41652961107.



41652961108.



41652961109.



Question Number : 48 Question Id : 41652915629 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1





Options :

41652961110.



41652961111. 

41652961112. 


41652961113. 


Question Number : 49 Question Id : 41652915630 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1




Options :

41652961114. 

41652961115. 

41652961116. 


41652961117. 


Question Number : 50 Question Id : 41652915631 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961118. 

41652961119. 

41652961120. 

41652961121.



Question Id : 41652915626 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 50)

Question Label : Comprehension

निर्देश : नीचे दी गयी उत्तर आकृतियों में से एक आकृति माप और दिशा में सामान रूप से प्रश्न आकृति में छुपी है। कौन सी सही है, चुनिए।

Sub questions

Question Number : 46 Question Id : 41652915627 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961102.



41652961103.



41652961104.



41652961105.



Question Number : 47 Question Id : 41652915628 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961106.



41652961107.



41652961108.



41652961109.



Question Number : 48 Question Id : 41652915629 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961110.



41652961111.



41652961112.



41652961113.



Question Number : 49 Question Id : 41652915630 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961114.



41652961115.



41652961116.



41652961117.



Question Number : 50 Question Id : 41652915631 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961118.

41652961119.

41652961120.

41652961121.

Sub-Section Number: 3
Sub-Section Id: 416529521
Question Shuffling Allowed : Yes

Question Id : 41652915632 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (51 to 55)
Question Label : Comprehension

Directions : Which one of the answer figure will complete the sequence of the three problem figures ?

Sub questions

Question Number : 51 Question Id : 41652915633 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652961122.

41652961123.

41652961124.



41652961125.



Question Number : 52 Question Id : 41652915634 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

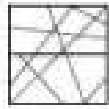
Correct Marks : 4 Wrong Marks : 1



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Options :

41652961126.



41652961127.



41652961128.

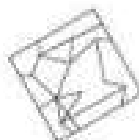


41652961129.



Question Number : 53 Question Id : 41652915635 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



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Options :

41652961130.



41652961131.



41652961132.



41652961133.



Question Number : 54 Question Id : 41652915636 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652961134.



41652961135.



41652961136.



41652961137.



Question Number : 55 Question Id : 41652915637 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652961138.



41652961139.



41652961140.



41652961141.



Question Id : 41652915632 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (51 to 55)

Question Label : Comprehension

निर्देश : उत्तर आकृतियों में से कौन सी आकृति को तीन प्रश्न आकृतियों में लगाने से अनुक्रम (sequence) पूरा हो जायेगा ?

Sub questions

Question Number : 51 Question Id : 41652915633 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961122.



41652961123.



41652961124.



41652961125.

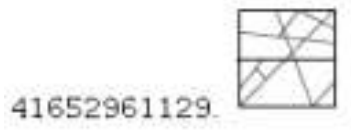
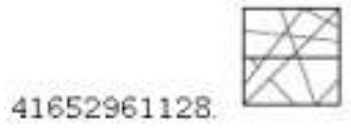
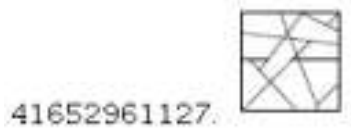
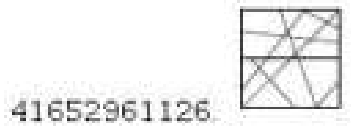


Question Number : 52 Question Id : 41652915634 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



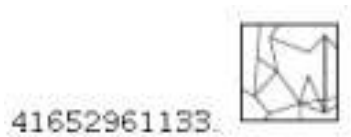
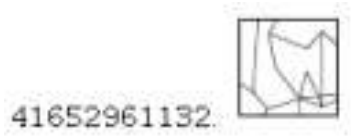
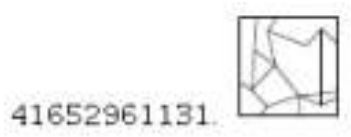
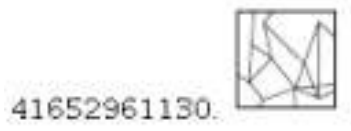
Options :



Question Number : 53 Question Id : 41652915635 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1



Options :



Question Number : 54 Question Id : 41652915636 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1



Options :

41652961134.



41652961135.



41652961136.



41652961137.



Question Number : 55 Question Id : 41652915637 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652961138.



41652961139.



41652961140.



41652961141.



Question Id : 41652915638 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

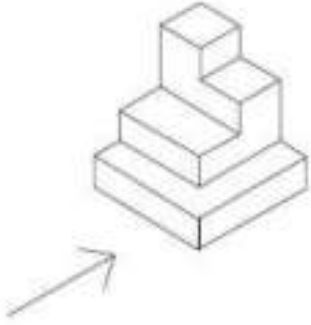
Question Label : Comprehension

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

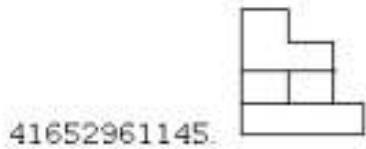
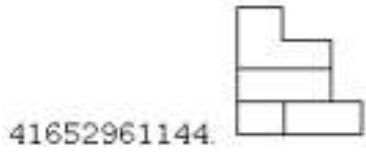
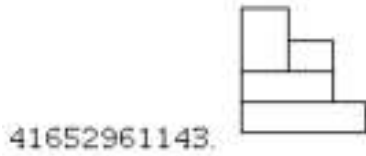
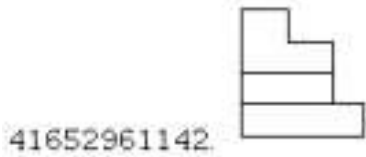
Sub questions

Question Number : 56 Question Id : 41652915639 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

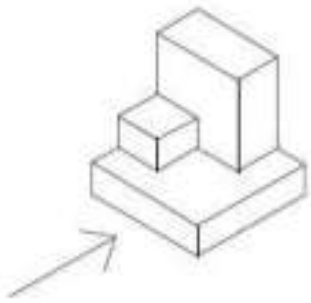


Options :



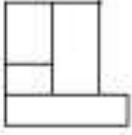
Question Number : 57 Question Id : 41652915640 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

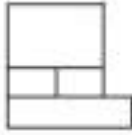


Options :

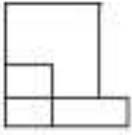
41652961146.



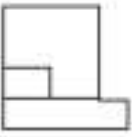
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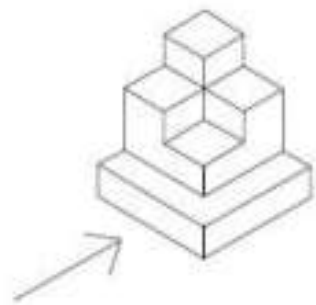
41652961148.



41652961149.

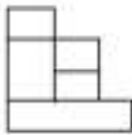


Question Number : 58 Question Id : 41652915641 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

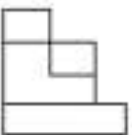


Options :

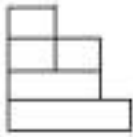
41652961150.



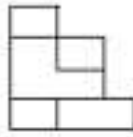
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41652961152.

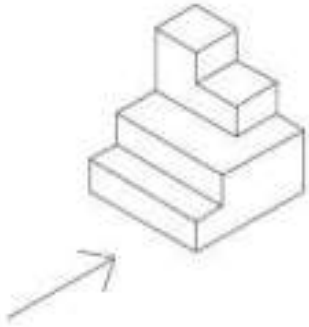


41652961153.



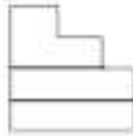
Question Number : 59 Question Id : 41652915642 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

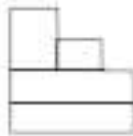


Options :

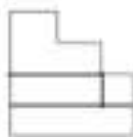
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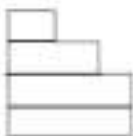
41652961155.



41652961156.

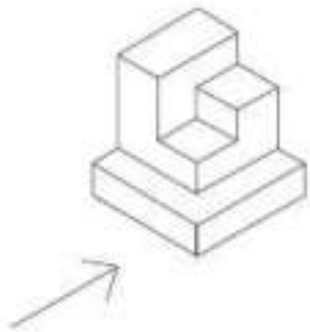


41652961157.



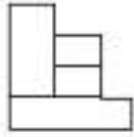
Question Number : 60 Question Id : 41652915643 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

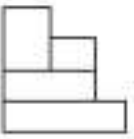


Options :

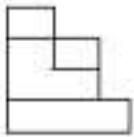
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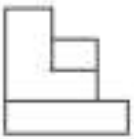
41652961159.



41652961160.



41652961161.



Question Id : 41652915638 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

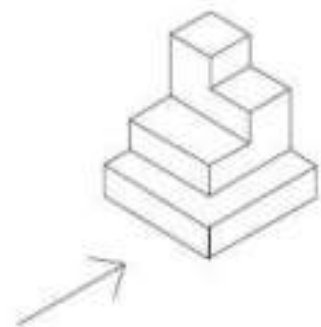
Question Label : Comprehension

निर्देश : 3D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।

Sub questions

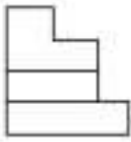
Question Number : 56 Question Id : 41652915639 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

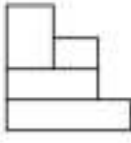


Options :

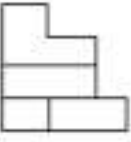
41652961142.



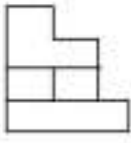
41652961143.



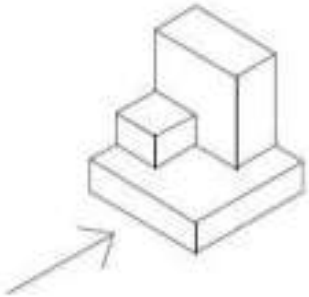
41652961144.



41652961145.

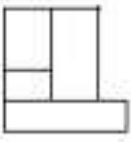


Question Number : 57 Question Id : 41652915640 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

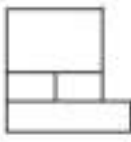


Options :

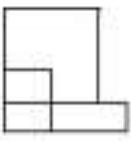
41652961146.



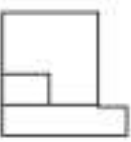
41652961147.



41652961148.

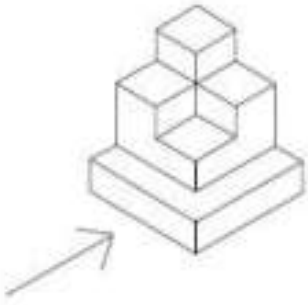


41652961149.

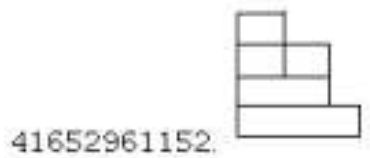
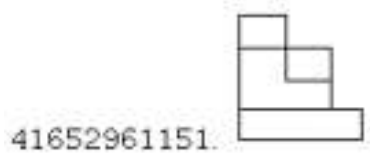


Question Number : 58 Question Id : 41652915641 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

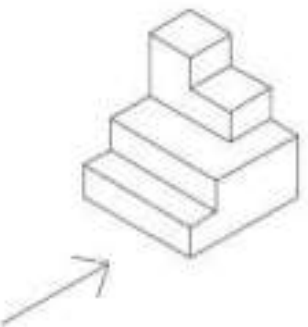


Options :

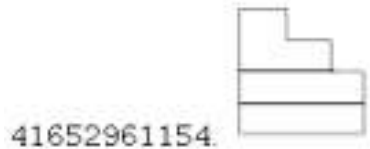


Question Number : 59 Question Id : 41652915642 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

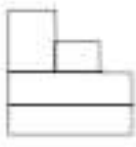
Correct Marks : 4 Wrong Marks : 1



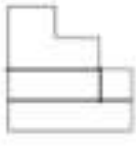
Options :



41652961155.



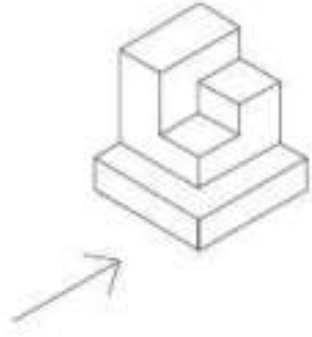
41652961156.



41652961157.

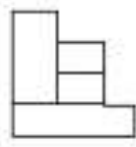


Question Number : 60 Question Id : 41652915643 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

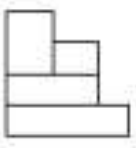


Options :

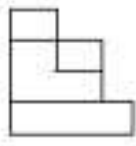
41652961158.



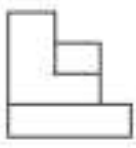
41652961159.



41652961160.



41652961161.



Question Id : 41652915644 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (61 to 65)

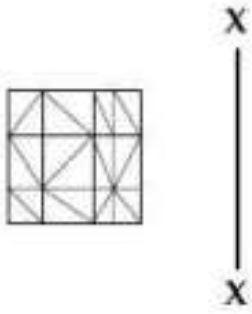
Question Label : Comprehension

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

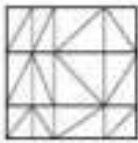
Sub questions

Question Number : 61 Question Id : 41652915645 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

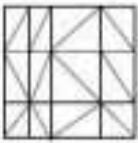
Correct Marks : 4 Wrong Marks : 1



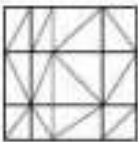
Options :



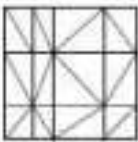
41652961162



41652961163



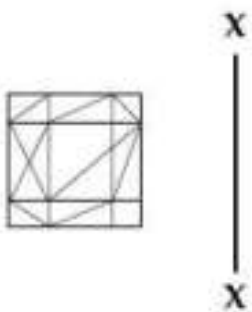
41652961164



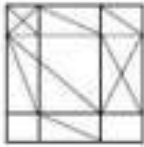
41652961165

Question Number : 62 Question Id : 41652915646 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

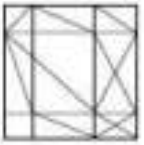
Correct Marks : 4 Wrong Marks : 1



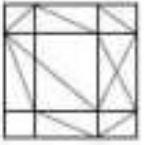
Options :



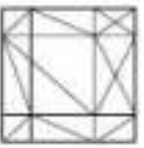
41652961166.



41652961167.



41652961168.



41652961169.

Question Number : 63 Question Id : 41652915647 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652961170.



41652961171.



41652961172.

41652961173



Question Number : 64 Question Id : 41652915648 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961174



41652961175



41652961176

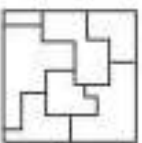


41652961177



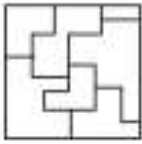
Question Number : 65 Question Id : 41652915649 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

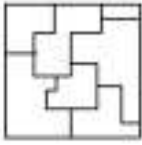


Options :

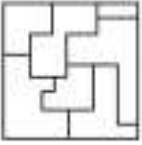
41652961178.



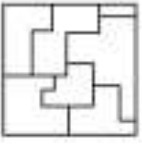
41652961179.



41652961180.



41652961181.



Question Id : 41652915644 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (61 to 65)

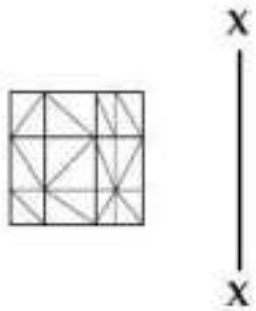
Question Label : Comprehension

निर्देश : उत्तर आकृतियों में से कौनसी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?

Sub questions

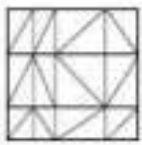
Question Number : 61 Question Id : 41652915645 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

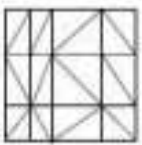


Options :

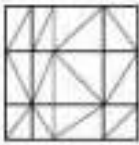
41652961162.



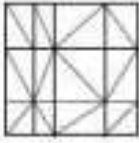
41652961163.



41652961164.

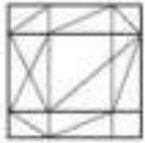


41652961165.



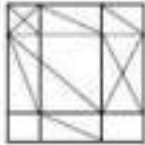
Question Number : 62 Question Id : 41652915646 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

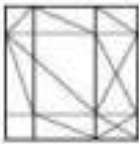


Options :

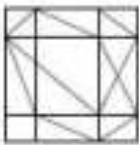
41652961166.



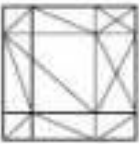
41652961167.



41652961168.



41652961169.



Question Number : 63 Question Id : 41652915647 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



X
|
X

Options :

41652961170



41652961171



41652961172



41652961173



Question Number : 64 Question Id : 41652915648 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



X
|
X

Options :

41652961174



41652961175



41652961176.

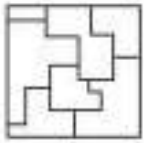


41652961177.



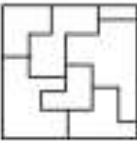
Question Number : 65 Question Id : 41652915649 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

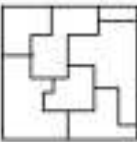


Options :

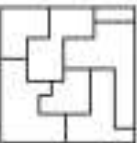
41652961178.



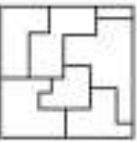
41652961179.



41652961180.



41652961181.



Sub-Section Number: 6
Sub-Section Id: 416529524
Question Shuffling Allowed : Yes

Question Id : 41652915650 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No

Question Numbers : (66 to 70)

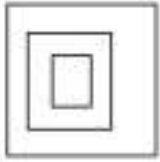
Question Label : Comprehension

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

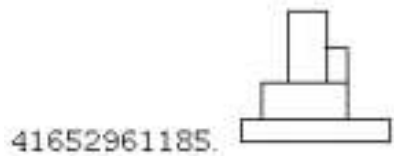
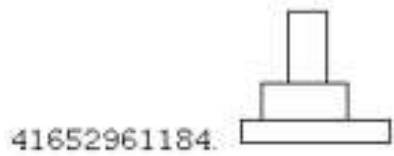
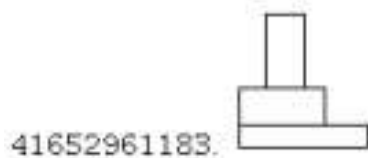
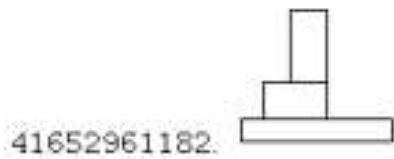
Sub questions

Question Number : 66 Question Id : 41652915651 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



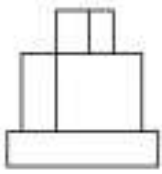
Question Number : 67 Question Id : 41652915652 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

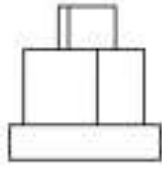


Options :

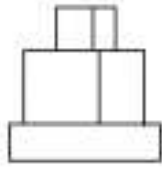
41652961186.



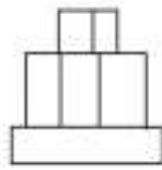
41652961187.



41652961188.



41652961189.

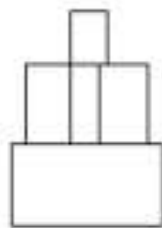


Question Number : 68 Question Id : 41652915653 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

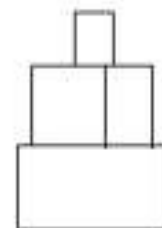


Options :

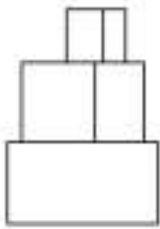
41652961190.



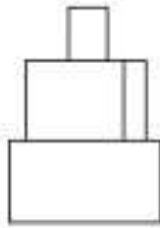
41652961191.



41652961192.



41652961193.

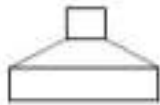


Question Number : 69 Question Id : 41652915654 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652961194.



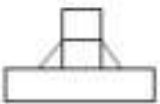
41652961195.



41652961196.



41652961197.



Question Number : 70 Question Id : 41652915655 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652961198.



41652961199.



41652961200.



41652961201.



Question Id : 41652915650 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (66 to 70)

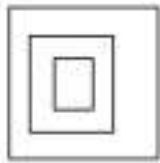
Question Label : Comprehension

निर्देश : प्रश्न आकृति में किसी वस्तु का ऊपरी दृश्य दिखाया गया है। तीर की दिशा में देखते हुए, उत्तर आकृतियों में से इसका सही सम्मुख दृश्य पहचानिये।

Sub questions

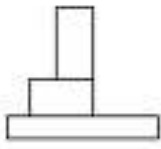
Question Number : 66 Question Id : 41652915651 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

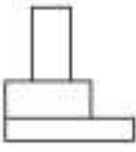


Options :

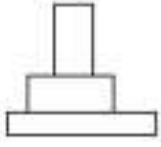
41652961182.



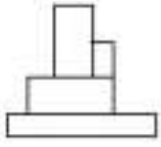
41652961183.



41652961184.



41652961185.

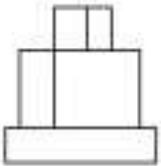


Question Number : 67 Question Id : 41652915652 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

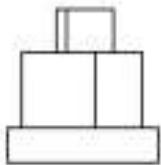


Options :

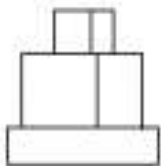
41652961186.



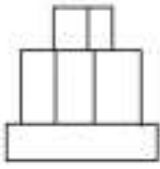
41652961187.



41652961188.



41652961189.



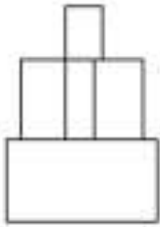
Question Number : 68 Question Id : 41652915653 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

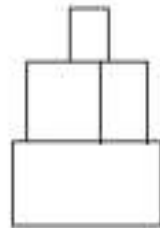


Options :

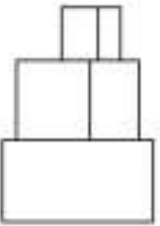
41652961190.



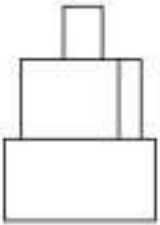
41652961191.



41652961192.

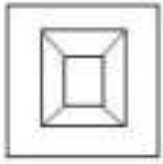


41652961193.



Question Number : 69 Question Id : 41652915654 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

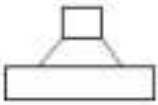
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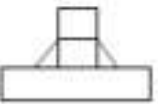
41652961195.



41652961196.



41652961197.



Question Number : 70 Question Id : 41652915655 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652961198.



41652961199.



41652961200.



41652961201.



Sub-Section Number: 7
 Sub-Section Id: 416529525
 Question Shuffling Allowed : Yes

Question Id : 41652915656 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (71 to 75)

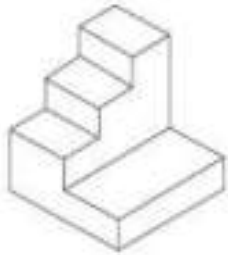
Question Label : Comprehension

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

Sub questions

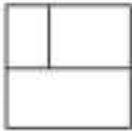
Question Number : 71 Question Id : 41652915657 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

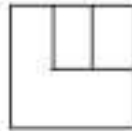


Options :

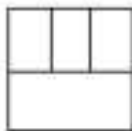
41652961202.



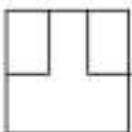
41652961203.



41652961204.

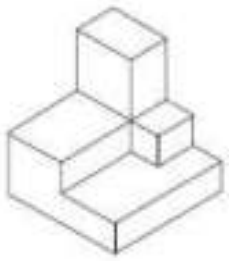


41652961205.



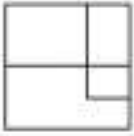
Question Number : 72 Question Id : 41652915658 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

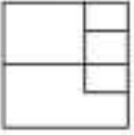


Options :

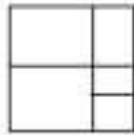
41652961206.



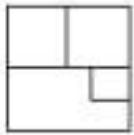
41652961207.



41652961208.

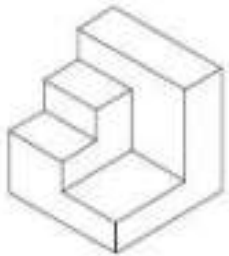


41652961209.



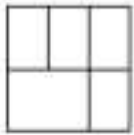
Question Number : 73 Question Id : 41652915659 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

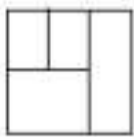


Options :

41652961210.



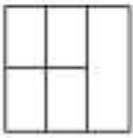
41652961211.



41652961212.

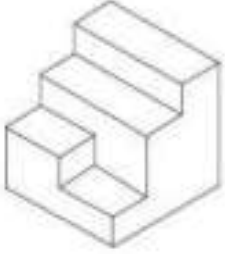


41652961213.



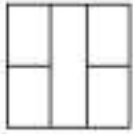
Question Number : 74 Question Id : 41652915660 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

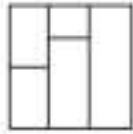
41652961214.



41652961215.



41652961216.

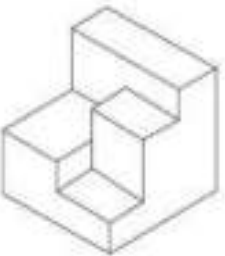


41652961217.



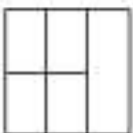
Question Number : 75 Question Id : 41652915661 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

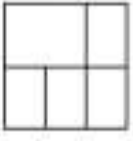
41652961218.



41652961219.



41652961220.



41652961221.



Question Id : 41652915656 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (71 to 75)

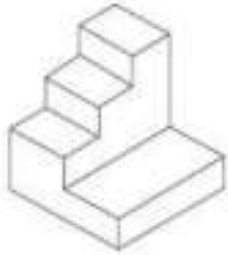
Question Label : Comprehension

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

Sub questions

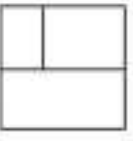
Question Number : 71 Question Id : 41652915657 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

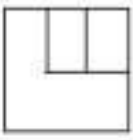


Options :

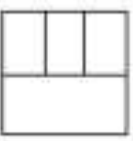
41652961202.



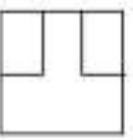
41652961203.



41652961204.

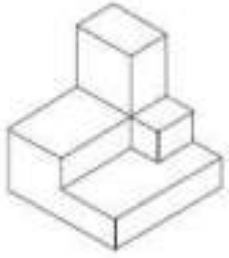


41652961205.

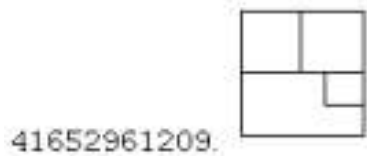
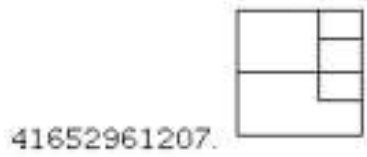
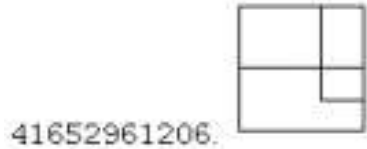


Question Number : 72 Question Id : 41652915658 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

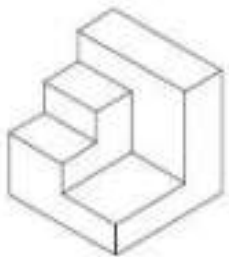


Options :

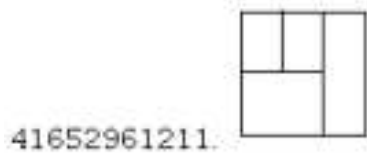
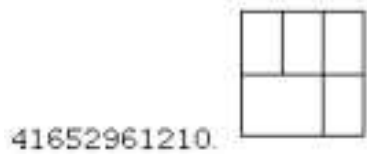


Question Number : 73 Question Id : 41652915659 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



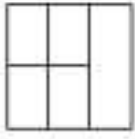
Options :



41652961212.

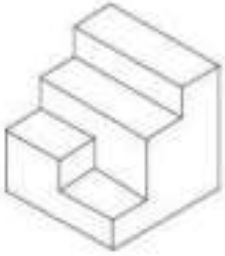


41652961213.



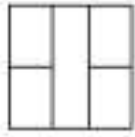
Question Number : 74 Question Id : 41652915660 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

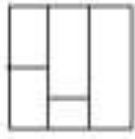


Options :

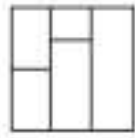
41652961214.



41652961215.



41652961216.

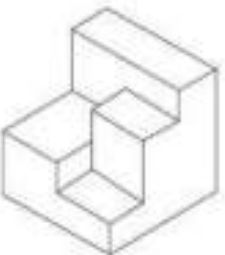


41652961217.



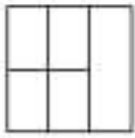
Question Number : 75 Question Id : 41652915661 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

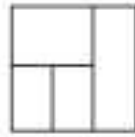


Options :

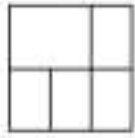
41652961218.



41652961219.



41652961220.



41652961221.



Sub-Section Number:

8

Sub-Section Id:

416529526

Question Shuffling Allowed :

Yes

Question Id : 41652915662 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (76 to 80)

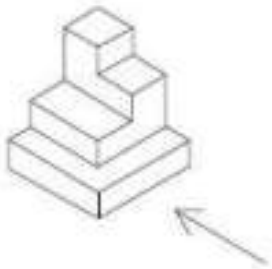
Question Label : Comprehension

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

Sub questions

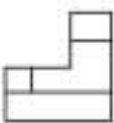
Question Number : 76 Question Id : 41652915663 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

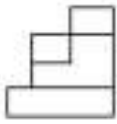


Options :

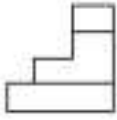
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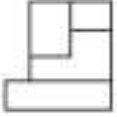
41652961223.



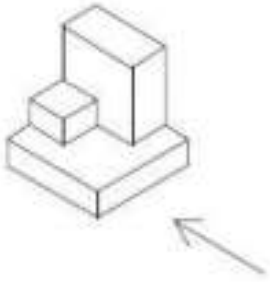
41652961224.



41652961225.

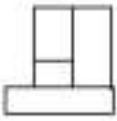


Question Number : 77 Question Id : 41652915664 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

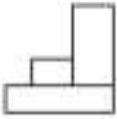


Options :

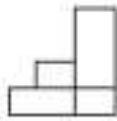
41652961226.



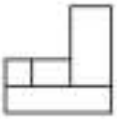
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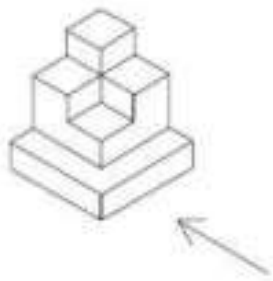
41652961228.



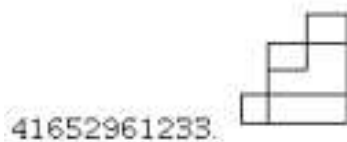
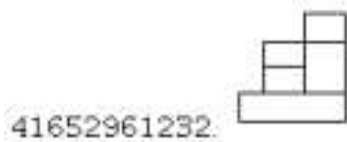
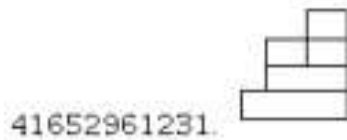
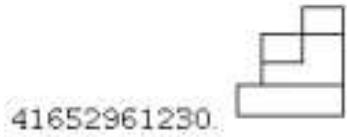
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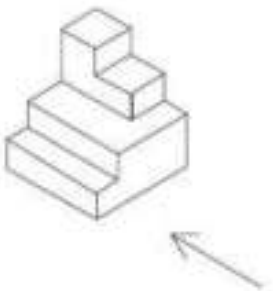
Question Number : 78 Question Id : 41652915665 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



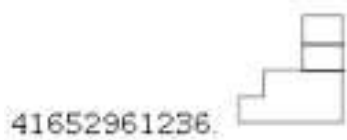
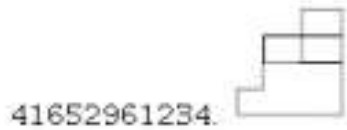
Options :



Question Number : 79 Question Id : 41652915666 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1



Options :

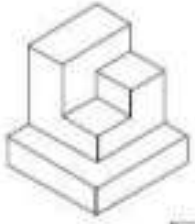


41652961237.



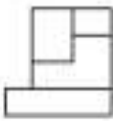
Question Number : 80 Question Id : 41652915667 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

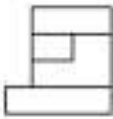


Options :

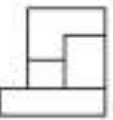
41652961238.



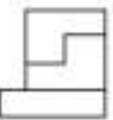
41652961239.



41652961240.



41652961241.



Question Id : 41652915662 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No

Question Numbers : (76 to 80)

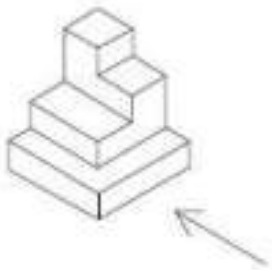
Question Label : Comprehension

निर्देश : 3D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके पार्श्व दृश्य को उत्तर आकृतियों में से पहचानिये।

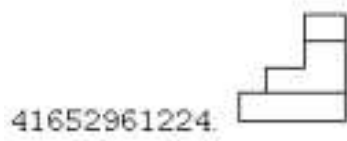
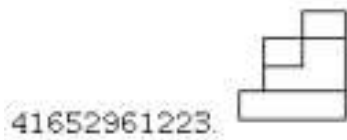
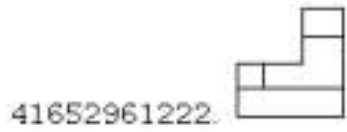
Sub questions

Question Number : 76 Question Id : 41652915663 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

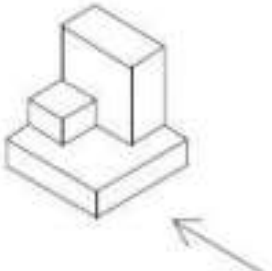
Correct Marks : 4 Wrong Marks : 1



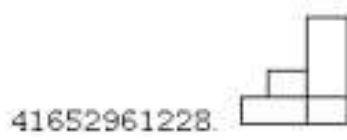
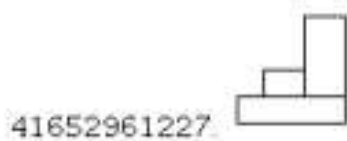
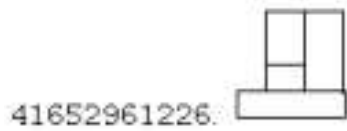
Options :



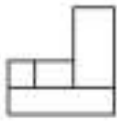
Question Number : 77 Question Id : 41652915664 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1



Options :

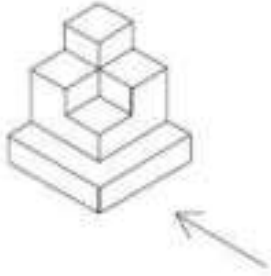


41652961229.



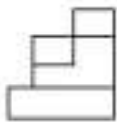
Question Number : 78 Question Id : 41652915665 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

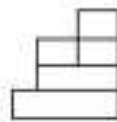


Options :

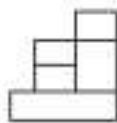
41652961230.



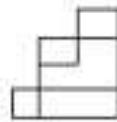
41652961231.



41652961232.

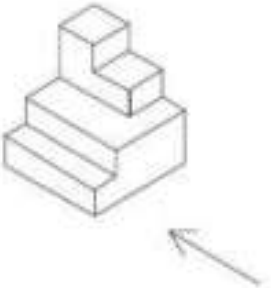


41652961233.



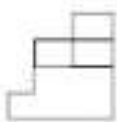
Question Number : 79 Question Id : 41652915666 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

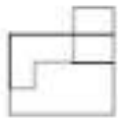


Options :

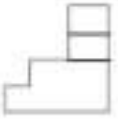
41652961234.



41652961235.



41652961236.

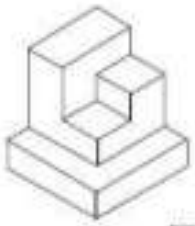


41652961237.



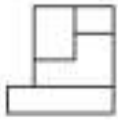
Question Number : 80 Question Id : 41652915667 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

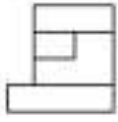


Options :

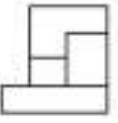
41652961238.



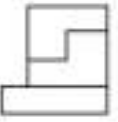
41652961239.



41652961240.



41652961241.



Drawing

Section Id :

416529348

Section Number :

3

Section type :

Offline

Mandatory or Optional:

Mandatory

Number of Questions:

3

Number of Questions to be attempted:

3

Section Marks:	70
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529527
Question Shuffling Allowed :	No

Question Number : 81 Question Id : 41652915668 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 20

In the space provided in the answer sheet for this question, draw margin lines to form a frame. In this frame create an aesthetic composition using only cubes. These can be of any size, and may be placed separate, overlapping or within each other. The idea is to produce an aesthetic and visually exciting composition of these shapes in the frame without making it represent any realistic form like house face etc. These shapes and the other spaces should be filled with some colors of your choice so that the visual quality of the composition is enhanced. 20 marks

Question Number : 81 Question Id : 41652915668 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 20

इस प्रश्न के लिए उत्तर पत्रक में प्रदान की गई जगह में, फ्रेम बनाने के लिए मार्जिन लाइनों को खींचें। इस फ्रेम में केवल घनक्षेत्रों का उपयोग कर एक सौंदर्य रचना बनाते हैं। ये घनक्षेत्र किसी भी आकार के हो सकते हैं, और इन्हें एक दूसरे के भीतर, अलग-अलग, या अतिव्यापी रखा जा सकता है। इस के पीछे विचार यह है कि फ्रेम में इन आकृतियों की एक सौंदर्य और नेत्र रोमांचक रचना का निर्माण करना है, बिना किसी यथार्थवादी रूप जैसे घर के चेहरे आदि का प्रतिनिधित्व करना। इन आकृतियों और अन्य स्थानों को आपकी पसंद के कुछ रंगों से भरा होना चाहिए ताकि रचना की गुणवत्ता को बढ़ाया जा सके। 20 अंक

Question Number : 82 Question Id : 41652915669 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 20

Copy the graphic image shown in the space provided for the answer of this question. Credit will be given to the exactness of your answer. 20 marks



Question Number : 82 Question Id : 41652915669 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

इस प्रश्न के उत्तर के लिए प्रदान की गई जगह में दिखाए गए ग्राफिक चित्र की प्रतिलिपि बनाएँ। आपके उत्तर की सटीकता को श्रेय दिया जाएगा। 20 अंक



Sub-Section Number: 2
Sub-Section Id: 416529528
Question Shuffling Allowed : No

Question Number : 83 Question Id : 41652915670 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 30

In the space provided for the answer of this question attempt any ONE of the following : 30 marks

Design and draw an appropriate pattern for a square table cloth. Color or shade it to enhance its visual quality.

OR

Draw a picture of a classroom looking towards the teacher from behind the students.

OR

Draw from imagination a picture of an officer sitting in his office.

Question Number : 83 Question Id : 41652915670 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 30

इस प्रश्न के उत्तर के लिए दिए गए स्थान में निम्नलिखित में से किसी एक का प्रयास करें : 30 अंक

एक मेज को ढकने का वर्ग कपड़े के लिए एक पैटर्न डिजाइन और चित्रित करें। इसकी दृश्य गुणवत्ता बढ़ाने के लिए इसे रंग या छाया दें।

अथवा

छात्रों के पीछे से शिक्षक की ओर देख रहे क्लासरूम की तस्वीर चित्रित करें।

अथवा

कल्पना से चित्रित करें अपने कार्यालय में बैठे एक अधिकारी की तस्वीर।

National Testing Agency

Question Paper Name:	Paper II EH 7th April 2019 S2
Subject Name:	Paper II EH
Creation Date:	2019-04-07 20:23:26
Duration:	180
Total Marks:	390
Display Marks:	Yes
Share Answer Key With Delivery Engine:	Yes
Actual Answer Key:	Yes

Paper II

Group Number :	1
Group Id :	416529182
Group Maximum Duration :	0
Group Minimum Duration :	180
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	390

Mathematics

Section Id :	416529340
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	30
Number of Questions to be attempted:	30
Section Marks:	120
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529496
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 41652915398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

The number of elements in the set,

$$A \cap B \cap C$$

where $A = \{(x, y) \in \mathbb{R} \times \mathbb{R} : |x| + |y| \geq 1\}$

$$B = \{(x, y) \in \mathbb{R} \times \mathbb{R} : x^2 + y^2 \leq 1\}$$

and $C = \{(x, y) \in \mathbb{R} \times \mathbb{R} : \max\{|x|, |y|\} = 1\}$,

is :

Options :

41652960282. 1

41652960285. 2

41652960284. 4

41652960285. infinitely many

Question Number : 1 Question Id : 41652915398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समुच्चय $A \cap B \cap C$, जहाँ
 $A = \{(x, y) \in \mathbb{R} \times \mathbb{R} : |x| + |y| \geq 1\}$
 $B = \{(x, y) \in \mathbb{R} \times \mathbb{R} : x^2 + y^2 \leq 1\}$
तथा $C = \{(x, y) \in \mathbb{R} \times \mathbb{R} : \max\{|x|, |y|\} = 1\}$,
में अवयवों की संख्या है :

Options :

41652960282. 1

41652960283. 2

41652960284. 4

41652960285. अनन्त

Question Number : 2 Question Id : 41652915399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $u = \frac{-1 + i\sqrt{3}}{2}$ and $z = u - u^2 - 2$. Then
the value of $z^4 + 3z^3 + 2z^2 - 11z - 6$ is :

Options :

41652960286. 1

41652960287. -1

41652960288. 2

41652960289. -2

Question Number : 2 Question Id : 41652915399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $u = \frac{-1 + i\sqrt{3}}{2}$ तथा $z = u - u^2 - 2$ है। तो

$z^4 + 3z^3 + 2z^2 - 11z - 6$ का मान है :

Options :

41652960288. 1

41652960287. -1

41652960289. 2

41652960288. -2

Question Number : 3 Question Id : 41652915400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let (a, b) be the solution of the system

$$[x \ y] \begin{bmatrix} 1 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}. \text{ If } \alpha \text{ and } \beta \text{ are the}$$

roots of the equation $ax^2 + 2bx - (a + b) = 0$, then the equation, whose roots are $\alpha\beta$ and

$$\frac{1}{\alpha} + \frac{1}{\beta}, \text{ is :}$$

Options :

41652960290. $12x^2 + 47x + 40 = 0$

41652960291. $12x^2 + 17x - 40 = 0$

41652960292. $12x^2 - 53x + 56 = 0$

41652960293. $9x^2 + 54x + 80 = 0$

Question Number : 3 Question Id : 41652915400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना निकाय

$$[x \ y] \begin{bmatrix} 1 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$$

का हल (a, b) है। यदि समीकरण $ax^2 + 2bx - (a+b) = 0$ के मूल α तथा β हैं, तो वह समीकरण, जिसके मूल $\alpha\beta$ तथा $\frac{1}{\alpha} + \frac{1}{\beta}$ हैं, है :

Options :

41652960290. $12x^2 + 47x + 40 = 0$

41652960291. $12x^2 + 17x - 40 = 0$

41652960292. $12x^2 - 53x + 56 = 0$

41652960293. $9x^2 + 54x + 80 = 0$

Question Number : 4 Question Id : 41652915401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If $A^{20} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$, where $A = \begin{bmatrix} 1 & 1 \\ 0 & 2 \end{bmatrix}$,

then $a + b + c + d$ is equal to :

Options :

41652960294. 2^{19}

41652960295. 2^{20}

41652960296. 2^{21}

41652960297. 2^{22}

Question Number : 4 Question Id : 41652915401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि $A^{20} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$, जहाँ $A = \begin{bmatrix} 1 & 1 \\ 0 & 2 \end{bmatrix}$ है, तो

$a + b + c + d$ बराबर है :

Options :

41652960294. 2^{19}

41652960295. 2^{20}

41652960296. 2^{21}

41652960297. 2^{22}

Question Number : 5 Question Id : 41652915402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The number of solutions of the equations

$$3x - y - z = 0$$

$$-3x + 2y + z = 0$$

$$-3x + z = 0$$

such that x, y, z are non-negative integers

and $x^2 + y^2 + z^2 \leq 81$ is :

Options :

41652960298. 3

41652960299. 7

41652960300. 1

41652960301. 2

Question Number : 5 Question Id : 41652915402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समीकरणों

$$3x - y - z = 0$$

$$-3x + 2y + z = 0$$

$$-3x + z = 0$$

के उन हलों की संख्या, जिनमें x, y, z ऋणैतर पूर्णांक हैं तथा $x^2 + y^2 + z^2 \leq 81$ है, है :

Options :

41652960298. 3

41652960299. 7

41652960300. 1

41652960301. 2

Question Number : 6 Question Id : 41652915403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The number of subsets of $\{1, 2, \dots, 99\}$
containing at least 50 elements is :

Options :

41652960302. $2^{99} - 2^{50}$

41652960303. $2^{99} - 2^{49}$

41652960304. 2^{97}

41652960305. 2^{98}

Question Number : 6 Question Id : 41652915403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$\{1, 2, \dots, 99\}$ के उन उपसमुच्चयों, जिनमें कम से
कम 50 अवयव हों, की संख्या है :

Options :

41652960302. $2^{99} - 2^{50}$

41652960303. $2^{99} - 2^{49}$

41652960304. 2^{97}

41652960305. 2^{98}

Question Number : 7 Question Id : 41652915404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The coefficient of x^5 in the expansion of

$(1-x) \left(\frac{x^3-6}{2x^2} \right)^{10}$ is :

Options :

41652960306. 405

41652960307. $\frac{405}{256}$

41652960308. $-\frac{1405}{256}$

41652960309. $-\frac{405}{256}$

Question Number : 7 Question Id : 41652915404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$(1-x) \left(\frac{x^3-6}{2x^2} \right)^{10}$ के प्रसार में x^5 का गुणांक है :

Options :

41652960306. 405

41652960307. $\frac{405}{256}$

41652960308. $-\frac{1405}{256}$

41652960309. $-\frac{405}{256}$

Question Number : 8 Question Id : 41652915405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An A.P. having an odd number of terms,
has its first, second and middle terms as
- 12, - 7 and 38 respectively, then the sum
of this A.P. is :

Options :

41652960310. 896

41652960311. 798

41652960312. 756

41652960313. 710

Question Number : 8 Question Id : 41652915405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक समान्तर श्रेणी, जिसके पदों की संख्या विषम है, के प्रथम, द्वितीय तथा मध्य पद क्रमशः -12 , -7 तथा 38 हैं, तो इस समान्तर श्रेणी का योगफल है :

Options :

41652960310. 896

41652960311. 798

41652960312. 756

41652960313. 710

Question Number : 9 Question Id : 41652915406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If $S_n = \sum_{r=1}^n T_r = n(n+1)(n+2)(n+3)$,

then $\sum_{r=1}^{10} \frac{1}{T_r}$ is equal to :

Options :

41652960314. $\frac{75}{1056}$

41652960315. $\frac{58}{528}$

41652960316. $\frac{65}{528}$

41652960317. $\frac{65}{1056}$

Question Number : 9 Question Id : 41652915406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि $S_n = \sum_{r=1}^n T_r = n(n+1)(n+2)(n+3)$,

तो $\sum_{r=1}^{10} \frac{1}{T_r}$ बराबर है :

Options :

41652960314. $\frac{75}{1056}$

41652960315. $\frac{58}{528}$

41652960316. $\frac{65}{528}$

41652960317. $\frac{65}{1056}$

Question Number : 10 Question Id : 41652915407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If $\lim_{x \rightarrow 4} \frac{x^{3/4} - 4^{3/4}}{x^{4/3} - 4^{4/3}} = 9^p$, then p is equal

to :

Options :

41652960318. $(2)^{-11/2}$

41652960319. $(2)^{-31/6}$

41652960320. $(2)^{-29/6}$

41652960321. $(2)^{-9/2}$

Question Number : 10 Question Id : 41652915407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि $\lim_{x \rightarrow 4} \frac{x^{3/4} - 4^{3/4}}{x^{4/3} - 4^{4/3}} = 9^p$, तो p बराबर है :

Options :

41652960318. $(2)^{-11/2}$

41652960319. $(2)^{-11/6}$

41652960320. $(2)^{-29/6}$

41652960321 $(2)^{-\frac{9}{2}}$

Question Number : 11 Question Id : 41652915408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a differentiable function such that $f(u+v) = f(u) + 2v^2 + 4uv$ for all $u, v \in \mathbb{R}$. If $f(1) = 3$, then the equation of the normal to the curve $y = f(x)$ at the point

$\left(\frac{1}{2}, f\left(\frac{1}{2}\right)\right)$ is :

Options :

41652960322 $3x + y = 3$

41652960323 $2x - 4y = -5$

41652960324 $2x + 4y = 7$

41652960325 $3x - y = 0$

Question Number : 11 Question Id : 41652915408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना एक अवकलनीय फलन $f: \mathbb{R} \rightarrow \mathbb{R}$ इस प्रकार है कि सभी $u, v \in \mathbb{R}$ के लिए $f(u+v) = f(u) + 2v^2 + 4uv$ है। यदि $f(1) = 3$ है,

तो बिन्दु $\left(\frac{1}{2}, f\left(\frac{1}{2}\right)\right)$ पर वक्र $y = f(x)$ के अभिलंब

का समीकरण है :

Options :

41652960322 $3x + y = 3$

41652960323 $2x - 4y = -5$

41652960324 $2x + 4y = 7$

41652960325 $3x - y = 0$

Question Number : 12 Question Id : 41652915409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $\lambda \in \mathbb{R}$ and

$$f(x) = \begin{cases} |\lambda| [x + 1], & x < -1 \\ -|\lambda|, & x = -1 \\ [\sin(\pi x)] + 2\lambda x, & x > -1 \end{cases}$$

where $[t]$ denotes the greatest integer function. If $f(x)$ is continuous at $x = -1$, then λ is equal to :

Options :

41652960328. -1

41652960327. $-\frac{1}{3}$

41652960328. 0

41652960329. $\frac{1}{3}$

Question Number : 12 Question Id : 41652915409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $\lambda \in \mathbb{R}$ तथा

$$f(x) = \begin{cases} |\lambda| [x + 1], & x < -1 \\ -|\lambda|, & x = -1 \\ [\sin(\pi x)] + 2\lambda x, & x > -1 \end{cases}$$

जहाँ $[t]$ महत्तम पूर्णांक फलन है। यदि $x = -1$ पर $f(x)$ संतत है, तो λ बराबर है :

Options :

41652960328. -1

41652960327. $-\frac{1}{3}$

41652960328. 0

41652960329. $\frac{1}{3}$

Question Number : 13 Question Id : 41652915410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If the tangent to the curve, $x^2y + \alpha y^2 = \beta$, ($\alpha, \beta \in \mathbb{R}$) at the point (1, 1) on it is $4x + 3y = 7$, then the normal to it at the point $(x_1, -5)$, $x_1 < 0$ on the curve, is :

Options :

41652960330. $3x + 4y + 26 = 0$

41652960331. $3x + 4y + 23 = 0$

41652960332. $3x + 20y + 103 = 0$

41652960333. $3x + 20y + 106 = 0$

Question Number : 13 Question Id : 41652915410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि वक्र $x^2y + \alpha y^2 = \beta$, ($\alpha, \beta \in \mathbb{R}$) के बिन्दु (1, 1) पर स्पर्शरेखा $4x + 3y = 7$ है, तो वक्र के बिन्दु $(x_1, -5)$, $x_1 < 0$ पर अभिलंब है :

Options :

41652960330. $3x + 4y + 26 = 0$

41652960331. $3x + 4y + 23 = 0$

41652960332. $3x + 20y + 103 = 0$

41652960333. $3x + 20y + 106 = 0$

Question Number : 14 Question Id : 41652915411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let AP and BQ be two vertical poles standing on the horizontal ground at two points A and B respectively. If AP = 16 m, BQ = 22 m and AB = 20 m, then the minimum value (in m^2) of $RP^2 + RQ^2$, where R is any point on AB, is :

Options :

41652960334. 840

41652960335. 940

41652960336. 1048

41652960337. 1148

Question Number : 14 Question Id : 41652915411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना क्षेत्रज धरातल के दो बिन्दुओं A तथा B पर क्रमशः दो खम्भे AP तथा BQ सीधे खड़े हैं। यदि $AP = 16$ मी, $BQ = 22$ मी तथा $AB = 20$ मी हैं, तो $RP^2 + RQ^2$, जहाँ R, AB पर कोई बिन्दु है, का न्यूनतम मान (वर्ग मी में) है :

Options :

41652960334. 840

41652960335. 940

41652960336. 1048

41652960337. 1148

Question Number : 15 Question Id : 41652915412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The integral $\int \frac{2}{e^{2x}-1} dx$ is equal to :

(Here C is a constant of integration).

Options :

41652960338. $x + \log_e |e^x - e^{-x}| + C$

41652960339. $-x + \log_e |e^x - e^{-x}| + C$

41652960340. $-x + \log_e |e^x + e^{-x}| + C$

41652960341. $x + \log_e |e^x + e^{-x}| + C$

Question Number : 15 Question Id : 41652915412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समाकल $\int \frac{2}{e^{2x}-1} dx$ बराबर है :

(यहाँ C एक समाकलन अचर है)

Options :

41652960338. $x + \log_e |e^x - e^{-x}| + C$

41652960339. $-x + \log_e |e^x - e^{-x}| + C$

41652960340. $-x + \log_e |e^x + e^{-x}| + C$

41652960341. $x + \log_e |e^x + e^{-x}| + C$

Question Number : 16 Question Id : 41652915413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The integral

$$\int_{-\frac{1}{2}}^{\frac{1}{2}} (\sin^{-1}(3x - 4x^3) - \cos^{-1}(4x^3 - 3x)) dx$$

is equal to :

Options :

41652960342. 0

41652960343. $-\frac{\pi}{2}$

41652960344. $\frac{3\pi}{2}$

41652960345. $\frac{\pi}{2}$

Question Number : 16 Question Id : 41652915413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समाकल

$$\int_{-\frac{1}{4}}^{\frac{1}{4}} (\sin^{-1}(3x - 4x^3) - \cos^{-1}(4x^3 - 3x)) dx$$

बराबर है :

Options :

41652960342. 0

41652960343. $-\frac{\pi}{2}$

41652960344. $\frac{3\pi}{2}$

41652960345. $\frac{\pi}{2}$

Question Number : 17 Question Id : 41652915414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) of the region

$$A = \{(x, y) : 0 \leq y \leq x \leq \sqrt{2-y}\} \text{ is:}$$

Options :

41652960346. $\frac{4\sqrt{2}}{3} - \frac{7}{6}$

41652960347. $\frac{4\sqrt{2}}{3} + \frac{7}{6}$

41652960348. $\frac{2\sqrt{2}}{3} + \frac{5}{6}$

41652960349. $\frac{2\sqrt{2}}{3} - \frac{1}{6}$

Question Number : 17 Question Id : 41652915414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

क्षेत्र $A = \{(x, y) : 0 \leq y \leq x \leq \sqrt{2-y}\}$ का

क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

41652960346. $\frac{4\sqrt{2}}{3} - \frac{7}{6}$

41652960347. $\frac{4\sqrt{2}}{3} + \frac{7}{6}$

41652960348. $\frac{2\sqrt{2}}{3} + \frac{5}{6}$

41652960349. $\frac{2\sqrt{2}}{3} - \frac{1}{6}$

Question Number : 18 Question Id : 41652915415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $y = y(x)$ be the solution of the differential equation $e^y dy = (1 + x + e^y + xe^y) dx$ and $y(1) = 0$. Then $y(-3)$ is equal to :

Options :

41652960350. 0

41652960351. $\frac{3}{2}$

41652960352. $\log_e(2)$

41652960353. $\log_e(2) - \frac{3}{2}$

Question Number : 18 Question Id : 41652915415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $y = y(x)$ अवकल समीकरण $e^y dy = (1 + x + e^y + xe^y) dx$ तथा $y(1) = 0$ का हल है। तो $y(-3)$ बराबर है :

Options :

41652960350. 0

41652960351. $\frac{3}{2}$

41652960352. $\log_e(2)$

41652960353. $\log_e(2) - \frac{3}{2}$

Question Number : 19 Question Id : 41652915416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If A_0, A_1, A_2, A_3, A_4 and A_5 are the vertices of a regular hexagon inscribed in a circle of unit radius, then the product of the lengths of the line segments A_0A_1, A_0A_2 and A_0A_3 is :

Options :

41652960354. $2\sqrt{2}$

41652960355. $3\sqrt{3}$

41652960356. 6

41652960357. $2\sqrt{3}$

Question Number : 19 Question Id : 41652915416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि इकाई त्रिज्या के एक वृत्त के अंतर्गत एक नियमित षटभुज के शीर्ष A_0, A_1, A_2, A_3, A_4 तथा A_5 हैं, तो रेखाखण्डों A_0A_1, A_0A_2 तथा A_0A_3 की लम्बाइयों का गुणनफल है :

Options :

41652960354. $2\sqrt{2}$

41652960355. $3\sqrt{3}$

41652960356. 6

41652960357. $2\sqrt{3}$

Question Number : 20 Question Id : 41652915417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A line is drawn from a point $P(-4, 3)$ to cut the circle, $x^2 + y^2 = 4$ at the points A and B. Then $PA \cdot PB$ is equal to :

Options :

41552960358. 29

41552960359. 27

41552960360. 21

41552960361. 17

Question Number : 20 Question Id : 41652915417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

बिन्दु $P(-4, 3)$ से एक रेखा खींची गई है जो वृत्त $x^2 + y^2 = 4$ को बिन्दुओं A तथा B पर काटती है। तो $PA \cdot PB$ बराबर है :

Options :

41552960358. 29

41552960359. 27

41552960360. 21

41552960361. 17

Question Number : 21 Question Id : 41652915418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The normal to the ellipse $\frac{x^2}{16} + \frac{y^2}{36} = 1$ at

a point P on the ellipse has slope $\frac{2}{3}$. If this normal intersects the major axis of the ellipse at a point A, then $(PA)^2$ is equal to :

Options :

41652960362. $\frac{104}{9}$

41652960363. $\frac{136}{9}$

41652960364. $\frac{88}{9}$

41652960365. $\frac{32}{3}$

Question Number : 21 Question Id : 41652915418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

दीर्घवृत्त $\frac{x^2}{16} + \frac{y^2}{36} = 1$ के एक बिन्दु P पर

अभिलम्ब की प्रवणता (slope) $\frac{2}{3}$ है। यदि यह
अभिलम्ब दीर्घवृत्त के दीर्घ अक्ष को एक बिन्दु A पर
काटता है, तो (PA)² बराबर है :

Options :

41652960362. $\frac{104}{9}$

41652960363. $\frac{136}{9}$

41652960364. $\frac{88}{9}$

41652960365. $\frac{32}{3}$

Question Number : 22 Question Id : 41652915419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

If tangents are drawn from the point
(4, 2) to the hyperbola, $16x^2 - 25y^2 = 400$,
then the sum of the reciprocals of the slopes
of these tangents is :

Options :

41652960366. $\frac{5}{2}$

41652960367. $-\frac{2}{5}$

41652960368. $-\frac{4}{5}$

41652960369. $\frac{4}{5}$

Question Number : 22 Question Id : 41652915419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि बिन्दु $(4, 2)$ से अतिपरवलय $16x^2 - 25y^2 = 400$ पर स्पर्शरेखायें खींची गई हैं, तो इन स्पर्शरेखाओं की प्रवणताओं (slopes) के व्युत्क्रमों का योगफल है :

Options :

41652960366. $\frac{5}{2}$

41652960367. $-\frac{2}{5}$

41652960368. $-\frac{4}{5}$

41652960369. $\frac{4}{5}$

Question Number : 23 Question Id : 41652915420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A plane passes through the points $(\alpha, 1, 0)$, $(\alpha, 2, 1)$, $(-2, 2, -1)$ and $(1, 1, 0)$ for some $\alpha \in \mathbb{R}$. Then the distance of the point $(1, 1, 1)$ from this plane is :

Options :

41652960370. $\frac{1}{\sqrt{22}}$

41652960371. $\frac{5}{\sqrt{11}}$

41652960372. $\frac{3}{\sqrt{22}}$

41652960373. $\frac{2}{\sqrt{11}}$

Question Number : 23 Question Id : 41652915420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

किसी $\alpha \in \mathbb{R}$ के लिए एक समतल बिन्दुओं $(\alpha, 1, 0)$, $(\alpha, 2, 1)$, $(-2, 2, -1)$ तथा $(1, 1, 0)$ से होकर जाता है। तो बिन्दु $(1, 1, 1)$ की इस समतल से दूरी है :

Options :

41652960370. $\frac{1}{\sqrt{22}}$

41652960371. $\frac{5}{\sqrt{11}}$

41652960372. $\frac{3}{\sqrt{22}}$

41652960373. $\frac{2}{\sqrt{11}}$

Question Number : 24 Question Id : 41652915421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $\vec{OA} = \vec{a} = \frac{1}{2}(\hat{i} + \hat{j} - 2\hat{k})$,

$\vec{OC} = \vec{b} = \hat{i} - 2\hat{j} + \hat{k}$ and

$\vec{OB} = 10\vec{a} + 2\vec{b}$. Let p (in sq. units) be the area of the quadrilateral OABC and q (in sq. units) be the area of the

parallelogram with \vec{OA} and \vec{OC} as

adjacent sides, then $\frac{p}{q}$ is equal to :

Options :

41652960374. 3

41552960375. 4

41552960376. 6

41552960377. 8

Question Number : 24 Question Id : 41652915421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$$\text{माना } \vec{OA} = \vec{a} = \frac{1}{2}(\hat{i} + \hat{j} - 2\hat{k}),$$

$$\vec{OC} = \vec{b} = \hat{i} - 2\hat{j} + \hat{k} \text{ तथा}$$

$\vec{OB} = 10\vec{a} + 2\vec{b}$ है। माना चतुर्भुज OABC का क्षेत्रफल (वर्ग इकाइयों में) p है तथा समांतर चतुर्भुज जिसकी संलग्न भुजाएं \vec{OA} तथा \vec{OC} हैं, का क्षेत्रफल (वर्ग इकाइयों में) q है, तो $\frac{p}{q}$ बराबर है :

Options :

41552960374. 3

41552960375. 4

41552960376. 6

41552960377. 8

Question Number : 25 Question Id : 41652915422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A bag contains 8 white and 6 black balls. A ball is drawn at random from the bag, its colour is observed and kept aside (i.e., not returned in the bag). Three additional balls of the same colour as observed are put in the bag. If now two balls are drawn simultaneously at random from the bag, then the probability that these two balls are of different colours, is :

Options :

41652960378. $\frac{2}{5}$

41652960379. $\frac{4}{15}$

41652960380. $\frac{7}{25}$

41652960381. $\frac{18}{35}$

Question Number : 25 Question Id : 41652915422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

एक थैले में 8 सफेद तथा 6 काली गेंदें हैं। थैले में से एक गेंद यादृच्छया निकाली जाती है, इसका रंग देखकर इसे अलग रख दिया जाता है (अर्थात् वापस थैले में नहीं रखा जाता)। देखे गये रंग की तीन अतिरिक्त गेंदें थैले में रख दी जाती हैं। यदि अब थैले में से दो गेंदें यादृच्छया एक साथ निकाली जाती हैं, तो इन दो गेंदों के भिन्न रंग की होने की प्रायिकता है :

Options :

41652960378. $\frac{2}{5}$

41652960379. $\frac{4}{15}$

41652960380. $\frac{7}{25}$

41652960381. $\frac{18}{35}$

Question Number : 26 Question Id : 41652915423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

A factory has two machines A and B. The machine A produces 60% of the items manufactured while the machine B produces 40% of the items. Further 2% of the items produced by the machine A are defective and 1% of that produced by the machine B are defective. If an item is drawn at random from the manufactured items, then the probability of its being defective is :

Options :

41652960382. 0.160

41652960383. 0.052

41652960384. 0.016

41652960385. 0.014

Question Number : 26 Question Id : 41652915423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक कारखाने में दो मशीनें A तथा B हैं। कुल बनायी गई वस्तुओं में से 60% मशीन A बनाती है, जबकि मशीन B, 40% बनाती है। पुनः मशीन A द्वारा बनायी गई वस्तुओं का 2% त्रुटिपूर्ण है तथा मशीन B द्वारा बनायी गई वस्तुओं का 1% त्रुटिपूर्ण है। यदि बनायी गई वस्तुओं में से एक वस्तु यादृच्छया निकाली जाती है, तो इसके त्रुटिपूर्ण होने की प्रायिकता है :

Options :

41652960382. 0.160

41652960383. 0.052

41652960384. 0.016

41652960385. 0.014

Question Number : 27 Question Id : 41652915424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The mean deviation about the mean of the data in the following frequency distribution :

x	0	1	2	3
frequency	2	5	4	1

is :

Options :

41652960386. $\frac{4}{3}$

41652960387. $\frac{13}{18}$

41652960388. $\frac{5}{6}$

41652960389. $\frac{5}{9}$

Question Number : 27 Question Id : 41652915424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

बारंबारता बंटन

x	0	1	2	3
बारंबारता	2	5	4	1

में आँकड़ों का माध्य के सापेक्ष माध्य विचलन है :

Options :

41652960386. $\frac{4}{3}$

41652960387. $\frac{13}{18}$

41652960388. $\frac{5}{6}$

41652960389. $\frac{5}{9}$

Question Number : 28 Question Id : 41652915425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $S = \{\theta \in (0, 2\pi) : 2 \sin\theta(4 \sin\theta - \sin 3\theta) = 3\}$.

Then $\sum_{\theta \in S} \tan^2 3\theta$ is equal to :

Options :

41652960390. 12

41652960391. 6

41652960392. 1

41652960393. 2

Question Number : 28 Question Id : 41652915425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $S = \{\theta \in (0, 2\pi) : 2 \sin\theta(4 \sin\theta - \sin 3\theta) = 3\}$

है, तो $\sum_{\theta \in S} \tan^2 3\theta$ बराबर है :

Options :

41652960390. 12

41652960391. 6

41652960392. 1

41652960393. 2

Question Number : 29 Question Id : 41652915426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Two towers AB and CD are standing on a horizontal plane with points A and C on the plane. If $AB = 10$ m and the angles of elevation of D from A and B are 60° and 15° respectively, then which of the following (in meters) is not true ?

Options :

41652960394. $AC = \frac{5}{2}(\sqrt{3} + 1)$

$$CD = \frac{5}{2}(3 + \sqrt{3})$$

41652960395.

$$BD = 5\sqrt{3}$$

41652960396.

$$AD = 5(\sqrt{3} + 1)$$

41652960397.

Question Number : 29 Question Id : 41652915426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

क्षैतिज समतल के बिंदुओं A तथा C पर दो मीनारों AB तथा CD खड़ी हैं। यदि AB = 10 मी तथा D के A तथा B से उन्नयन कोण क्रमशः 60° तथा 15° हैं, तो निम्न में से कौन सा (मी में) सत्य नहीं है?

Options :

$$AC = \frac{5}{2}(\sqrt{3} + 1)$$

41652960394.

$$CD = \frac{5}{2}(3 + \sqrt{3})$$

41652960395.

$$BD = 5\sqrt{3}$$

41652960396.

$$AD = 5(\sqrt{3} + 1)$$

41652960397.

Question Number : 30 Question Id : 41652915427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is a tautology?

Options :

$$p \wedge (\sim(p \wedge q))$$

41652960398.

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

41652960399.

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

41652960400.

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

41652960401.

Question Number : 30 Question Id : 41652915427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा कथन एक पुनरुक्ति है ?

Options :

41652960398. $p \wedge (\sim(p \wedge q))$

41652960399. $(p \wedge q) \vee (\sim(p \vee q))$

41652960400. $(p \vee q) \wedge (\sim(p \wedge q))$

41652960401. $q \vee (\sim(p \wedge q))$

Aptitude Test

Section Id :	416529341
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	8
Number of Questions to be attempted:	8
Section Marks:	200
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529497
Question Shuffling Allowed :	Yes

Question Id : 41652915428 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No

Question Numbers : (31 to 45)

Question Label : Comprehension

Sub questions

Question Number : 31 Question Id : 41652915429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following was usually constructed in a chaitya in a Buddhist Monastery ?

Options :

41652960402. Linga

41652960403. Nandi

41652960404. Stupa

41652960405. Cross

Question Number : 32 Question Id : 41652915430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The famous Sun Temple is located in which of the following State ?

Options :

41652960406. Bihar

41652960407. Odisha

41652960408. Jharkhand

41652960409. Chattisgarh

Question Number : 33 Question Id : 41652915431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The horizontal part of a staircase is known as which of the following ?

Options :

41652960410. Riser

41652960411. Tread

41652960412. Rail

41652960413. Baluster

Question Number : 34 Question Id : 41652915432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Where amongst the following are the famous rock cut caves found in India ?

Options :

41652960414. Bhopal

41652960415. Allahabad

41652960416. Ellora

41652960417. Bijnor

Question Number : 35 Question Id : 41652915433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following colors is considered to be the happiest of colors ?

Options :

41652960418. Blue

41652960419. Black

41652960420. Yellow

41652960421. Red

Question Number : 36 Question Id : 41652915434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Who amongst the following designed the Madhya Pradesh Assembly building ?

Options :

41652960422. B.V. Doshi

41652960423. Raj Rewal

41652960424. Charles Correa

41652960425. Prem Nath

Question Number : 37 Question Id : 41652915435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following is the tallest building in Kolkata ?

Options :

41652960426. The 48

41652960427. The 42

41652960428. The 45

41652960429. The 46

Question Number : 38 Question Id : 41652915436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Capitol Complex of Chandigarh is designed by which one of the following architect ?

Options :

41652960430. Raj Rewal

41652960431. Charles Correa

41652960432. Le Corbusier

41652960433. B.V. Doshi

Question Number : 39 Question Id : 41652915437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The texture of a baby's skin is which one of the following ?

Options :

41652960434. Rough

41652960435. Smooth

41652960436. Corrugated

41652960437. Bumpy

Question Number : 40 Question Id : 41652915438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A gondola is a boat found mainly in the canals of which one of the following cities ?

Options :

41652960438. London

41652960439. Paris

41652960440. Venice

41652960441. Frankfurt

Question Number : 41 Question Id : 41652915439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The best shadow less light is found from
which of the following direction ?

Options :

41652960442. North

41652960443. South

41652960444. East

41652960445. West

Question Number : 42 Question Id : 41652915440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the Indian product market Ebco is known
for the manufacture of which one of the
following ?

Options :

41652960446. Plywood

41652960447. Glass

41652960448. Architectural hardware

41652960449. Tiles

Question Number : 43 Question Id : 41652915441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the thickness of a normal one brick
thick wall ?

Options :

41652960450. 300 mm

41652960451. 330 mm

41652960452. 230 mm

41652960453. 400 mm

Question Number : 44 Question Id : 41652915442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following colors is made when red and yellow colors are mixed ?

Options :

41652960454. Green

41652960455. Purple

41652960456. Orange

41652960457. Black

Question Number : 45 Question Id : 41652915443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A gutter with a sloping roof is meant for which of the following ?

Options :

41652960458. Holding the roof

41652960459. Draining rain water

41652960460. Decoration

41652960461. Protecting windows

Question Id : 41652915428 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (31 to 45)

Question Label : Comprehension

Sub questions

Question Number : 31 Question Id : 41652915429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से किसका निर्माण आमतौर पर बौद्ध मठ में चैत्य में किया गया था ?

Options :

41652960402. लिंग

41652960403. नंदी

41652960404. स्तूप

41652960405. क्रॉस

Question Number : 32 Question Id : 41652915430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

प्रसिद्ध सूर्य मंदिर निम्नलिखित में से किस राज्य में स्थित है ?

Options :

41652960406. बिहार

41652960407. ओडिशा

41652960408. झारखंड

41652960409. छत्तीसगढ़

Question Number : 33 Question Id : 41652915431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

सोढ़ी के क्षैतिज भाग को निम्नलिखित में से किसके रूप में जाना जाता है ?

Options :

41652960410. उठने वाला

41652960411. कदम रखना (ट्रेड)

41652960412. रेल

41652960413. छोटा खंभा (बैलुस्टर)

Question Number : 34 Question Id : 41652915432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

भारत में निम्नलिखित में से कौन सी जगह पर प्रसिद्ध
रॉक कट गुफाएँ हैं ?

Options :

41652960414. भोपाल

41652960415. इलाहाबाद

41652960416. एलोरा

41652960417. बिजनौर

Question Number : 35 Question Id : 41652915433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्न में से किस रंग को सबसे अधिक खुरशी देने वाले
रंगों में से एक माना जाता है ?

Options :

41652960418. नीला

41652960419. काला

41652960420. पीला

41652960421. लाल

Question Number : 36 Question Id : 41652915434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

मध्य प्रदेश विधानसभा भवन का डिजाइन निम्नलिखित
में से किसने डिजाइन किया है ?

Options :

41652960422. बी.वी. दोशी

41652960423. राज रेवाल

41652960424. चार्ल्स कोरीया

प्रेम नाथ

41652960425.

Question Number : 37 Question Id : 41652915435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सी कोलकाता की सबसे ऊँची इमारत है?

Options :

41652960426. 48

41652960427. 42

41652960428. 45

41652960429. 46

Question Number : 38 Question Id : 41652915436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

चंडीगढ़ का कैपिटल कॉम्प्लेक्स निम्नलिखित में से किस वास्तुकार द्वारा डिज़ाइन किया गया है?

Options :

41652960430. राज रेवाल

41652960431. चार्ल्स कोरीया

41652960432. ले कोबुर्सीयर

41652960433. बी.वी. दोशी

Question Number : 39 Question Id : 41652915437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

बच्चे की त्वचा की बनावट निम्नलिखित में से कौन सी है?

Options :

41652960434. रुखा

41652960435. चिकना

41652960436. नालीदार

41652960437. ऊबड़

Question Number : 40 Question Id : 41652915438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

गोंडोला नाव मुख्य रूप से निम्नलिखित में से किस
शहर की नहरों में पाई जाने वाली नाव है?

Options :

41652960438. लंदन

41652960439. पेरिस

41652960440. वेनिस

41652960441. फ्रैंकफर्ट

Question Number : 41 Question Id : 41652915439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से किस दिशा से सबसे अच्छा छाया
बिन प्रकाश पाया जाता है?

Options :

41652960442. उत्तर

41652960443. दक्षिण

41652960444. पूर्व

41652960445. पश्चिम

Question Number : 42 Question Id : 41652915440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

भारतीय उत्पाद बाजार में एबको (EbcO) निम्नलिखित
में से किस एक के निर्माण के लिए जाना जाता है?

Options :

41652960446. फ्लाइंगुड

41652960447. ग्लास (काँच)

41652960448. स्थापत्य हार्डवेयर

41652960449. टाइलें

Question Number : 43 Question Id : 41652915441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक ईट की सामान्य दीवार की मोटाई कितनी होती है ?

Options :

41652960450. 300 मि.मी.

41652960451. 330 मि.मी.

41652960452. 230 मि.मी.

41652960453. 400 मि.मी.

Question Number : 44 Question Id : 41652915442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

लाल और पीला रंग मिश्रित होने पर निम्नलिखित में से
कौन सा रंग बनता है ?

Options :

41652960454. हरा

41652960455. बैंगनी

41652960456. नारंगी

41652960457. काला

Question Number : 45 Question Id : 41652915443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

बलान वाली छत के साथ एक नाली का निर्माण
निम्नलिखित में से किसके लिए होता है ?

Options :

41652960458. छत को पकड़ना

41652960459. बरसाती पानी गिराना

41652960460.

सजावट

41652960461.

खिड़कियों की सुरक्षा करना

Sub-Section Number: 2
 Sub-Section Id: 416529498
 Question Shuffling Allowed : Yes

Question Id : 41652915444 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 50)

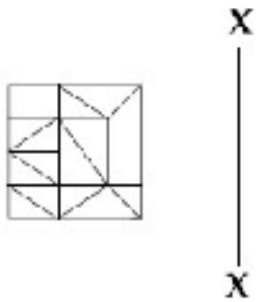
Question Label : Comprehension

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

Sub questions

Question Number : 46 Question Id : 41652915445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960462.



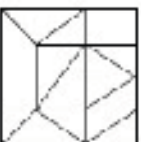
41652960463.



41652960464.

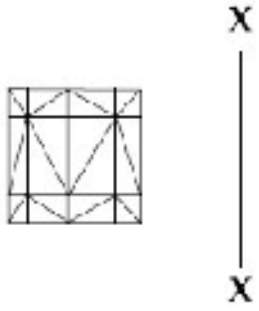


41652960465.



Question Number : 47 Question Id : 41652915446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

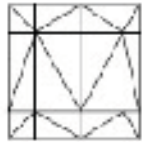
Correct Marks : 4 Wrong Marks : 1



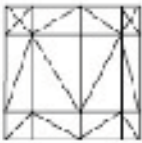
Options :



41652960166.



41652960167.



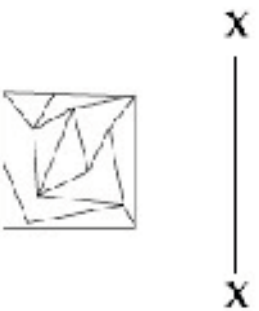
41652960468.



41652960469.

Question Number : 48 Question Id : 41652915447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652960170.

41652960471



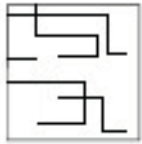
41652960472



41652960473

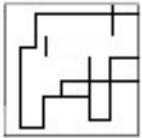


Question Number : 49 Question Id : 41652915448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

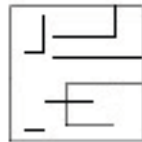
41652960474



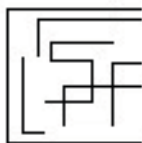
41652960475



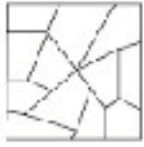
41652960476



41652960477



Question Number : 50 Question Id : 41652915449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



X
|
X

Options :

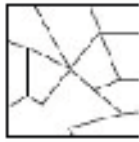
41652960478.



41652960479.



41652960480.



41652960481.



Question Id : 41652915444 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 50)

Question Label : Comprehension

निर्देश : उत्तर आकृतियों में से कौनसी आकृति दी गयी प्रश्न आकृति का X - X से संबंधित सही दर्पण प्रतिबिम्ब है?

Sub questions

Question Number : 46 Question Id : 41652915445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

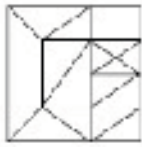
Correct Marks : 4 Wrong Marks : 1



X
|
X

Options :

41852960462.



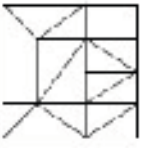
41852960463.



41852960464.



41852960465.



Question Number : 47 Question Id : 41652915446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

X

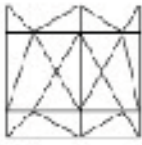


X

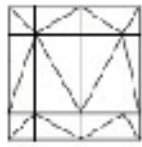


Options :

41852960466.

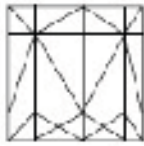


41852960467.



41852960468.





41652960169.

Question Number : 48 Question Id : 41652915447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652960470.



41652960471.



41652960472.



41652960473.

Question Number : 49 Question Id : 41652915448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

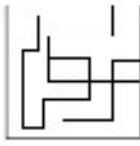


Options :

41652960474.



41652960475.



41652960476.



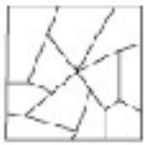
41652960477.



Question Number : 50 Question Id : 41652915449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

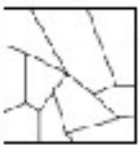
Correct Marks : 4 Wrong Marks : 1

X
|
X



Options :

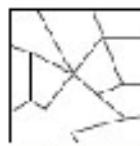
41652960478.



41652960479.



41652960480.



41852960481.



Sub-Section Number: 3
Sub-Section Id: 416529499
Question Shuffling Allowed : Yes

Question Id : 41652915450 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (51 to 55)

Question Label : Comprehension

Directions : Which one of the answer figure will complete the sequence of the three problem figures ?

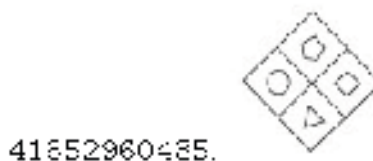
Sub questions

Question Number : 51 Question Id : 41652915451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



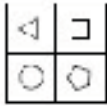
Question Number : 52 Question Id : 41652915452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960466



41652960467



41652960468



41652960469



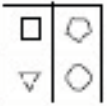
Question Number : 53 Question Id : 41652915453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960490



41652960491



41652960492



41652960493

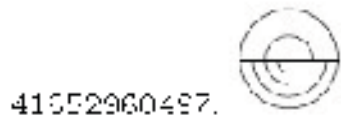
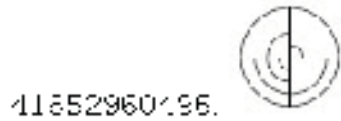
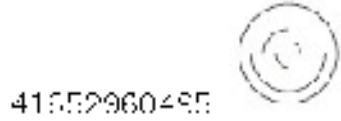
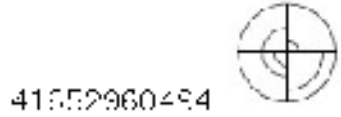


Question Number : 54 Question Id : 41652915454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

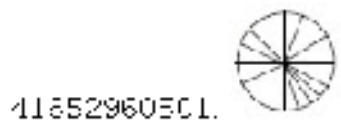
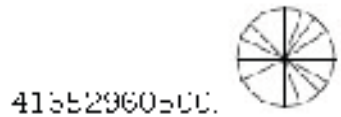
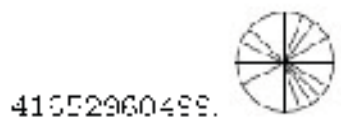
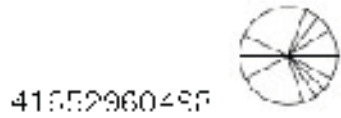


Question Number : 55 Question Id : 41652915455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



Question Id : 41652915450 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No

Question Numbers : (51 to 55)

Question Label : Comprehension

निर्देश : उच्च आकृतियों में से कौन सी आकृति को तीन प्रश्न आकृतियों में लगाने से अनुक्रम (sequence) पूरा हो जायेगा ?

Sub questions

Question Number : 51 Question Id : 41652915451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960482.



41652960483.



41652960484.



41652960485.



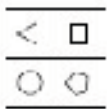
Question Number : 52 Question Id : 41652915452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

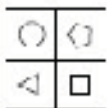


Options :

41652960486.

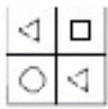


41652960487.



41652960488.





41652960489.

Question Number : 53 Question Id : 41652915453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652960490.



41652960491.



41652960492.



41652960493.

Question Number : 54 Question Id : 41652915454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652960494.



41652960495.



41652960496.



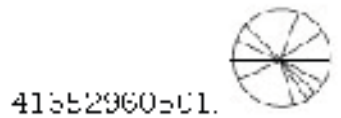
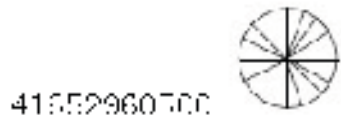
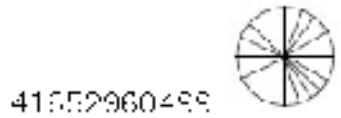
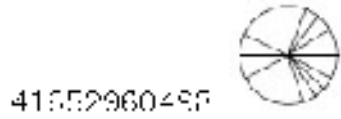
41652960497.

Question Number : 55 Question Id : 41652915455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



Sub-Section Number: 4
Sub-Section Id: 416529500
Question Shuffling Allowed : Yes

Question Id : 41652915456 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension
Questions : No

Question Numbers : (56 to 60)

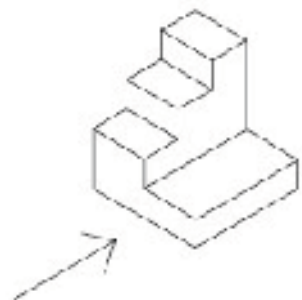
Question Label : Comprehension

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

Sub questions

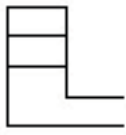
Question Number : 56 Question Id : 41652915457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960502.



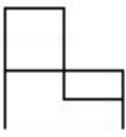
41652960503.



41652960704.

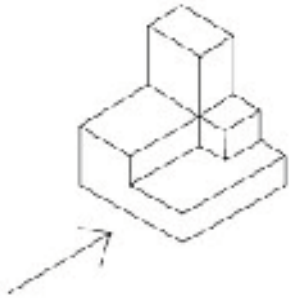


41652960505.



Question Number : 57 Question Id : 41652915458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

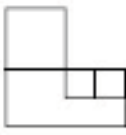
41652960506.



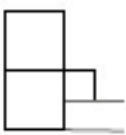
41652960507.



41652960508.

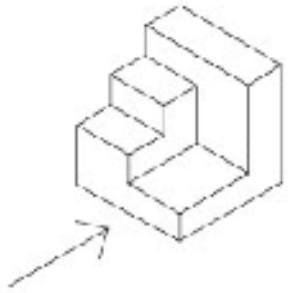


41652960509.

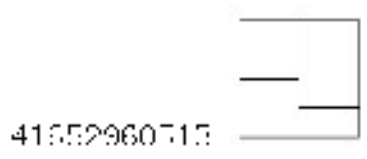
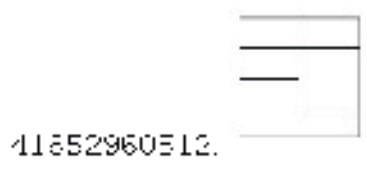
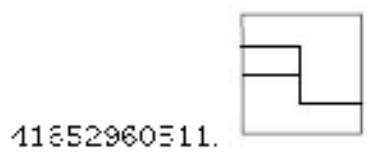
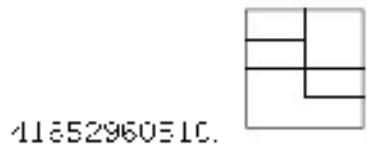


Question Number : 58 Question Id : 41652915459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

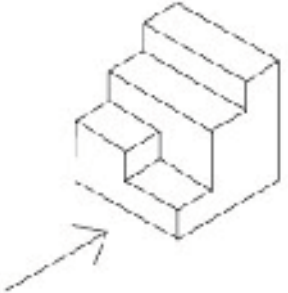


Options :



Question Number : 59 Question Id : 41652915460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

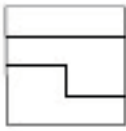
Correct Marks : 4 Wrong Marks : 1



Options :



41652960516.

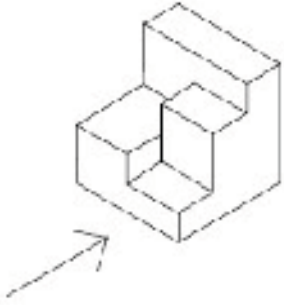


41652960517.



Question Number : 60 Question Id : 41652915461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

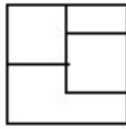


Options :

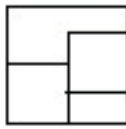
41652960518.



41652960519.



41652960790.



41652960521.



Question Id : 41652915456 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

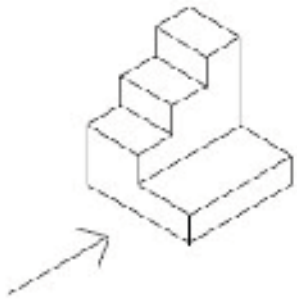
Question Label : Comprehension

निर्देश : 3D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।

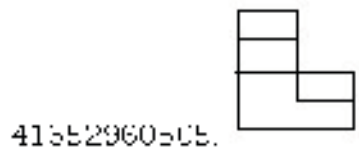
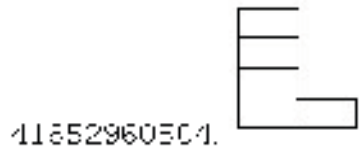
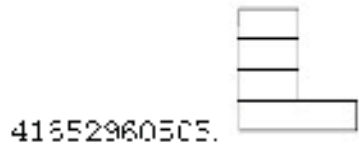
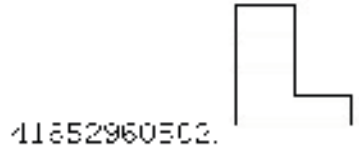
Sub questions

Question Number : 56 Question Id : 41652915457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

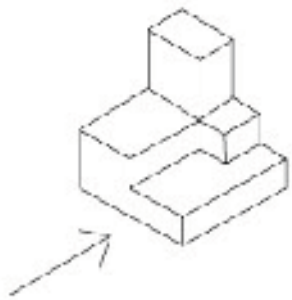


Options :

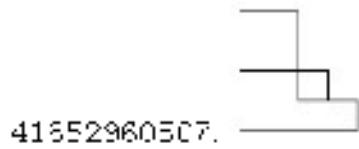
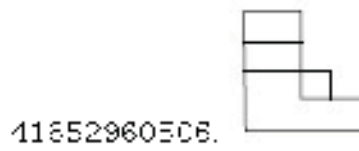


Question Number : 57 Question Id : 41652915458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652960709

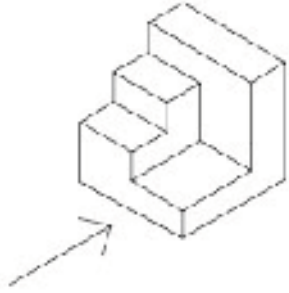


41652960509



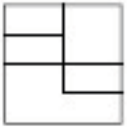
Question Number : 58 Question Id : 41652915459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960710



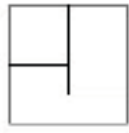
41652960511



41652960512

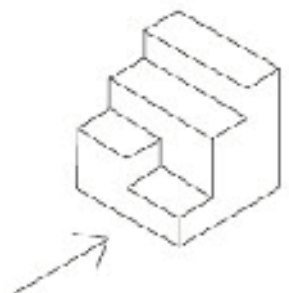


41652960513



Question Number : 59 Question Id : 41652915460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

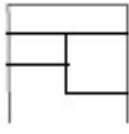


Options :

41652960514.



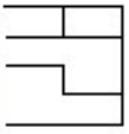
41652960515.



41652960516.

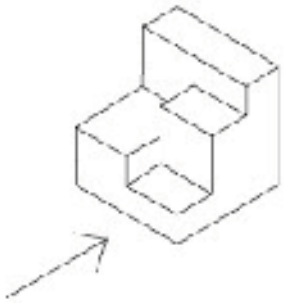


41652960717.



Question Number : 60 Question Id : 41652915461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

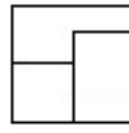
41652960518.



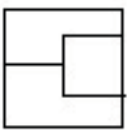
41652960519.



41652960520.



41652960521.



Sub-Section Number: 5
Sub-Section Id: 416529501
Question Shuffling Allowed : Yes

Question Id : 41652915462 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (61 to 65)

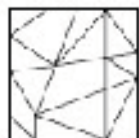
Question Label : Comprehension

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

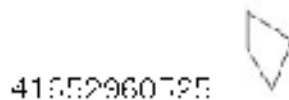
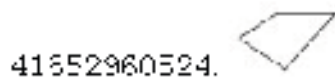
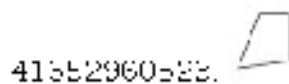
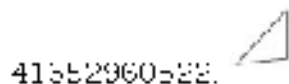
Sub questions

Question Number : 61 Question Id : 41652915463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

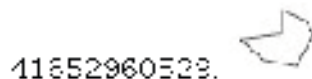
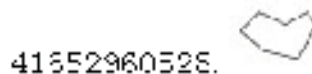
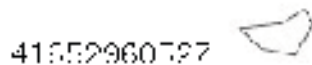
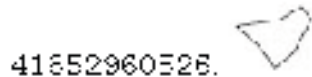


Question Number : 62 Question Id : 41652915464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

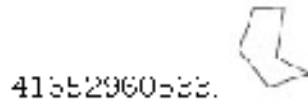
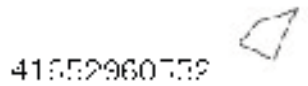
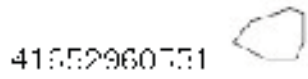
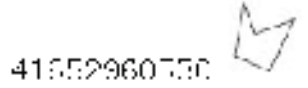


Question Number : 63 Question Id : 41652915465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

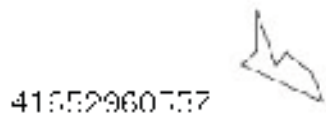
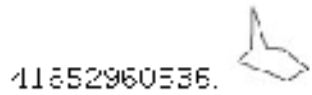
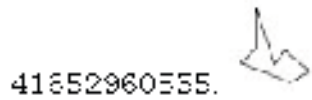
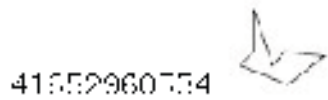


Question Number : 64 Question Id : 41652915466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :





Question Number : 65 Question Id : 41652915467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical


Correct Marks : 4 Wrong Marks : 1




Options :

41552960528. 

41552960529. 

41552960540. 

41552960541. 

Question Id : 41652915462 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (61 to 65)

Question Label : Comprehension

निर्देश : नीचे दी गयी उत्तर आकृतियों में से एक आकृति माप और दिशा में समान रूप से प्रश्न आकृति में छुपी है। कौन सी सही है, चुनिए।


Sub questions


Question Number : 61 Question Id : 41652915463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical


Correct Marks : 4 Wrong Marks : 1




Options :

41552960522. 

41552960523. 

41552960524. 


41552960725. 


Question Number : 62 Question Id : 41652915464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical


Correct Marks : 4 Wrong Marks : 1




Options :

41652960528. 

41652960797. 

41652960528. 


41652960529. 


Question Number : 63 Question Id : 41652915465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical


Correct Marks : 4 Wrong Marks : 1




Options :

41652960530. 

41652960791. 

41652960532. 


41652960533. 


Question Number : 64 Question Id : 41652915466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical


Correct Marks : 4 Wrong Marks : 1



Options :

41652960534. 

41652960535. 

41652960536. 

41852960337.



Question Number : 65 Question Id : 41652915467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41852960338.

41852960339.

41852960340.

41852960341.

Sub-Section Number: 6
Sub-Section Id: 416529502
Question Shuffling Allowed : Yes

Question Id : 41652915468 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (66 to 70)

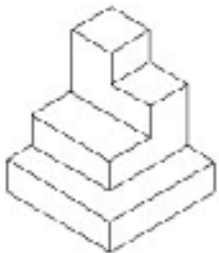
Question Label : Comprehension

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

Sub questions

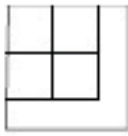
Question Number : 66 Question Id : 41652915469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

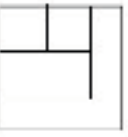


Options :

41652960542.



41652960543.



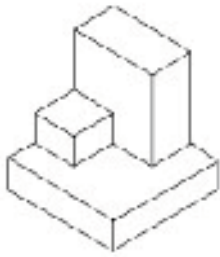
41652960544.



41652960545.

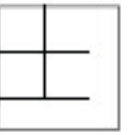


Question Number : 67 Question Id : 41652915470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :

41652960546.



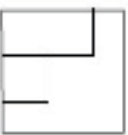
41652960547.



41652960548.

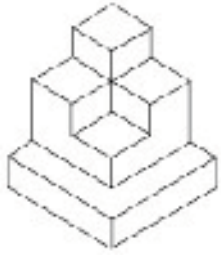


41652960549.



Question Number : 68 Question Id : 41652915471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41552960550.



41552960551.



41552960552.

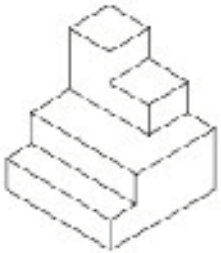


41552960553.



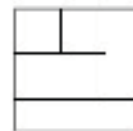
Question Number : 69 Question Id : 41652915472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41552960554.



41552960555.



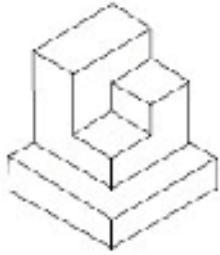
41652960558.



41652960557.



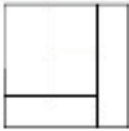
Question Number : 70 Question Id : 41652915473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1



Options :



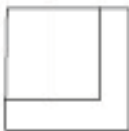
41652960558.



41652960559.



41652960560.



41652960561.

Question Id : 41652915468 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (66 to 70)

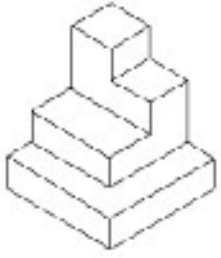
Question Label : Comprehension

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

Sub questions

Question Number : 66 Question Id : 41652915469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

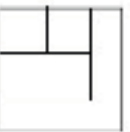
Correct Marks : 4 Wrong Marks : 1



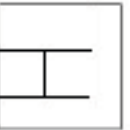
Options :



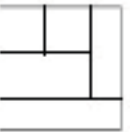
41652960542.



41652960543.



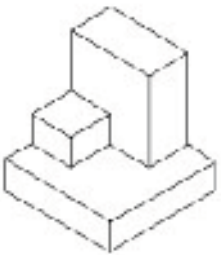
41652960544.



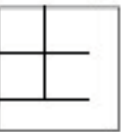
41652960545.

Question Number : 67 Question Id : 41652915470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



41652960546.

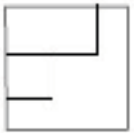


41652960547.

41552960542.

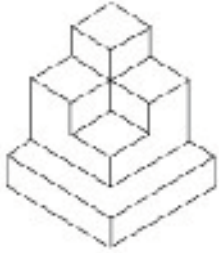


41552960543.



Question Number : 68 Question Id : 41652915471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

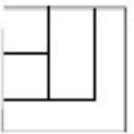


Options :

41552960550.



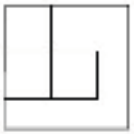
41552960551.



41552960552.

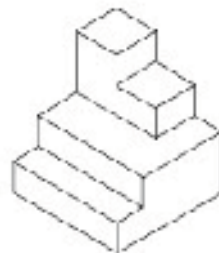


41552960553.



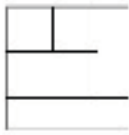
Question Number : 69 Question Id : 41652915472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41852960554.



41852960555.



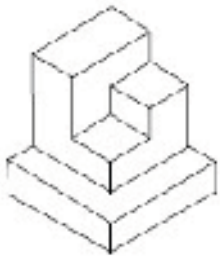
41852960556.



41852960557.



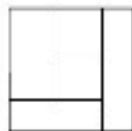
Question Number : 70 Question Id : 41652915473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



Options :



41852960558.

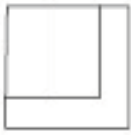


41852960559.



41852960560.

41652960761



Sub-Section Number: 7
 Sub-Section Id: 416529503
 Question Shuffling Allowed : Yes

Question Id : 41652915474 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (71 to 75)

Question Label : Comprehension

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

Sub questions

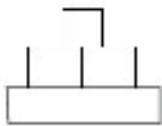
Question Number : 71 Question Id : 41652915475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

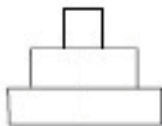
41652960562.



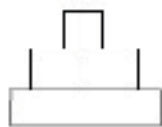
41652960563.



41652960564.



41652960565.



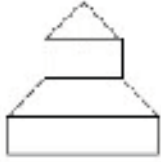
Question Number : 72 Question Id : 41652915476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

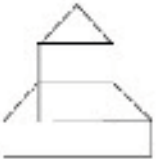


Options :

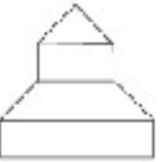
41552960565.



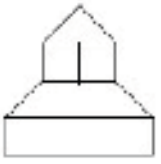
41552960567.



41552960568.



41552960769.



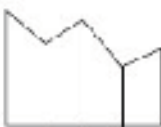
Question Number : 73 Question Id : 41652915477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

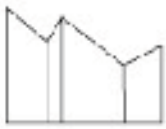
41552960770.



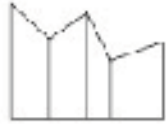
41552960771.



41652960572.

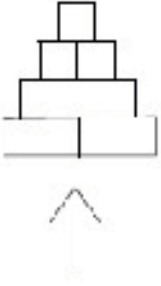


41652960575.



Question Number : 74 Question Id : 41652915478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

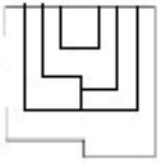


Options :

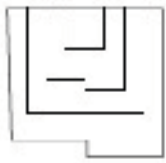
41652960574.



41652960575.



41652960576.

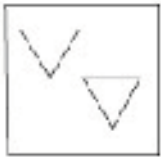


41652960577.



Question Number : 75 Question Id : 41652915479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

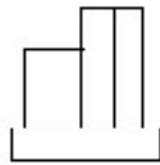


Options :

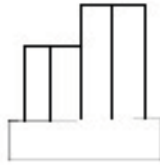
41652960578.



41652960579.



41652960790.



41652960581.



Question Id : 41652915474 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (71 to 75)

Question Label : Comprehension

निर्देश : प्रश्न आकृति में किसी वस्तु का ऊपरी दृश्य दिखाया गया है। तीर की दिशा में देखते हुए उत्तर आकृतियों में से इसका सही सम्मुख दृश्य पहचानिये।

Sub questions

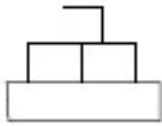
Question Number : 71 Question Id : 41652915475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

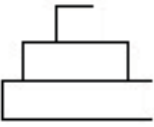


Options :

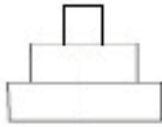
41552960562.



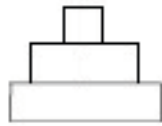
41552960765



41552960564.



41552960565.



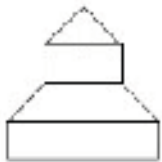
Question Number : 72 Question Id : 41652915476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

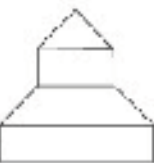
41552960566.



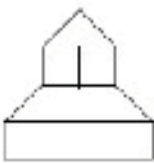
41552960567.



41552960568.



41552960769



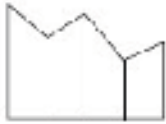
Question Number : 73 Question Id : 41652915477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

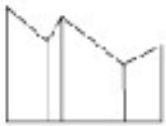
41652960770.



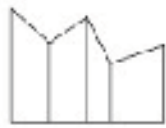
41652960771.



41652960772.

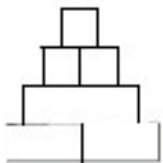


41652960773.



Question Number : 74 Question Id : 41652915478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

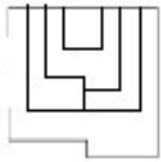


Options :

41652960774.



41552960575.



41552960576.

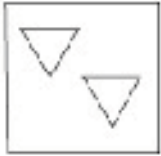


41552960577.



Question Number : 75 Question Id : 41652915479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

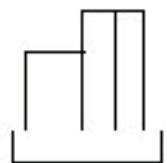


Options :

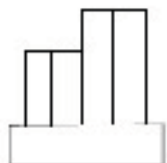
41552960778.



41552960779.



41552960780.



41552960581.



Sub-Section Number: 8
Sub-Section Id: 416529504
Question Shuffling Allowed : Yes

Question Id : 41652915480 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (76 to 80)

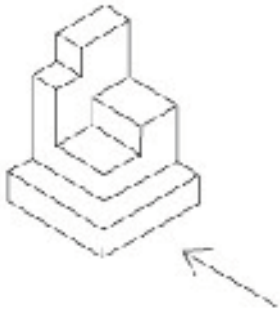
Question Label : Comprehension

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

Sub questions

Question Number : 76 Question Id : 41652915481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960582.



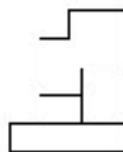
41652960583.



41652960584.

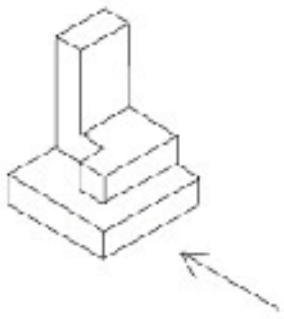


41652960585.

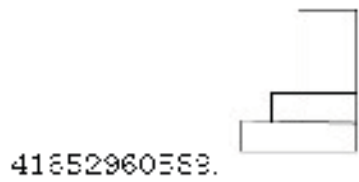
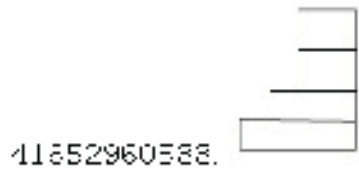
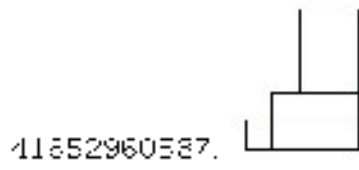
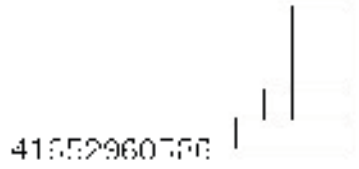


Question Number : 77 Question Id : 41652915482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

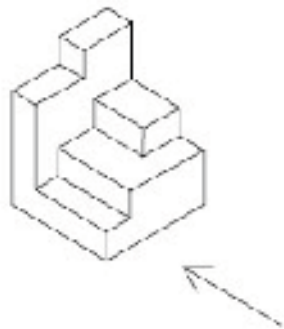
Correct Marks : 4 Wrong Marks : 1



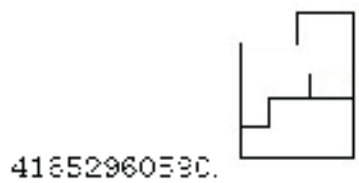
Options :



Question Number : 78 Question Id : 41652915483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1



Options :



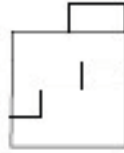
41652960591.



41652960592.

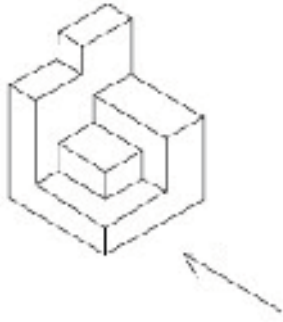


41652960795.



Question Number : 79 Question Id : 41652915484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960594.



41652960595.



41652960596.

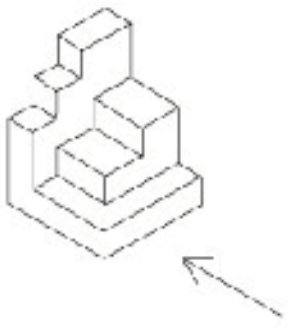


41652960797.



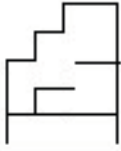
Question Number : 80 Question Id : 41652915485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

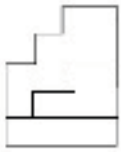


Options :

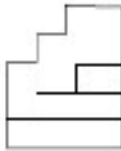
41552960538.



41552960599.



41552960500.



41552960501.



Question Id : 41652915480 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (76 to 80)

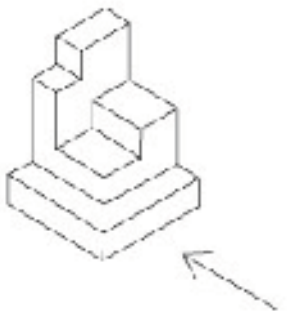
Question Label : Comprehension

निर्देश : 3D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके पार्श्व दृश्य को उत्तर आकृतियों में से पहचानिये।

Sub questions

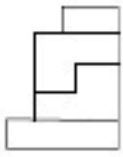
Question Number : 76 Question Id : 41652915481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

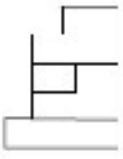


Options :

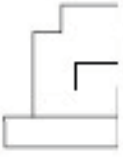
41652960583.



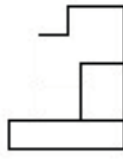
41652960582.



41652960584.

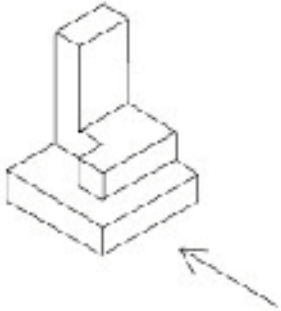


41652960785.



Question Number : 77 Question Id : 41652915482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960786.



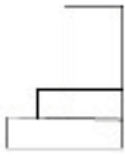
41652960587.



41652960588.

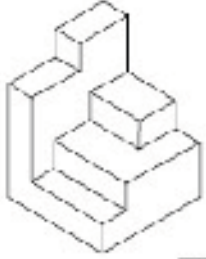


41852960589.



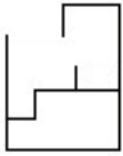
Question Number : 78 Question Id : 41652915483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41852960590.



41852960591.



41852960592.

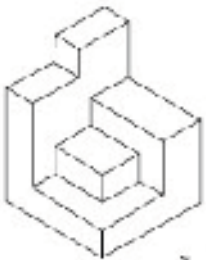


41852960785.



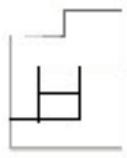
Question Number : 79 Question Id : 41652915484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960594.



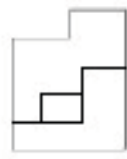
41652960595.



41652960596.

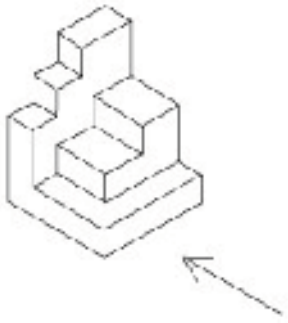


41652960797.



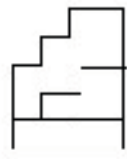
Question Number : 80 Question Id : 41652915485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

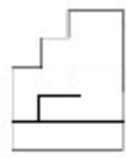


Options :

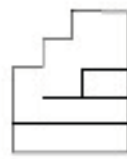
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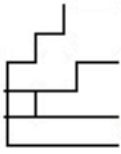
41652960599.



41652960600.



41652960501



Section Id :	Drawing
Section Number :	416529342
Section type :	3
Mandatory or Optional:	Offline
Number of Questions:	Mandatory
Number of Questions to be attempted:	3
Section Marks:	3
Display Number Panel:	70
Group All Questions:	Yes
	No

Sub-Section Number:	1
Sub-Section Id:	416529505
Question Shuffling Allowed :	No

Question Number : 81 Question Id : 41652915486 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 20

In the space provided in the answer sheet for this question, draw margin lines to form a frame. In this frame create an aesthetic composition using only cylinders and cubes. These can be of any size and may be placed separate, overlapping or within each other. The idea is to produce an aesthetic and visually exciting composition of these shapes in the frame without making it represent any realistic form like house face etc. These shapes and the other spaces should be filled with some colors of your choice so that the visual quality of the composition is enhanced. 20 marks

Question Number : 81 Question Id : 41652915486 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 20

इस प्रश्न के लिए उत्तर पत्रक में प्रदान की गई जगह में, फ्रेम बनाने के लिए मार्जिन लाइनों को खींचें। इस फ्रेम में केवल सिलेंडर और घनक्षेत्रों (क्यूब्स) का उपयोग कर एक सौंदर्य रचना बनानी है। ये आकार किसी भी आकार के हो सकते हैं और इन्हें एक दूसरे के भीतर, अलग-अलग, अतिव्यापी रखा जा सकता है। इसके पीछे विचार यह है कि फ्रेम में इन आकृतियों की एक सौंदर्य और नेत्र रोमांचक रचना का निर्माण करना है, बिना किसी यथार्थवादी रूप जैसे घर चेहरे आदि का प्रतिनिधित्व करना। इन आकृतियों और अन्य स्थानों को अपनी पसंद के कुछ रंगों से भरा होना चाहिए ताकि रचना की गुणवत्ता को बढ़ाया जा सके। 20 अंक

Question Number : 82 Question Id : 41652915487 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

Copy the graphic image shown in the space provided for the answer of this question. Credit will be given to the exactness of your answer. 20 marks



Question Number : 82 Question Id : 41652915487 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

इस प्रश्न के उत्तर के लिए प्रदान की गई जगह में दिखाए गए ग्राफिक चित्र की प्रतिलिपि बनाएँ। आपके उत्तर की सटीकता को श्रेय दिया जाएगा। 20 अंक



Sub-Section Number:

2

Sub-Section Id:

416529506

Question Shuffling Allowed :

No

Question Number : 83 Question Id : 41652915488 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 30

In the space provided for the answer of this question attempt any ONE of the following : 30 marks

Design and draw an appropriate pattern for a bed cover for a girls room. Color or shade it to enhance its visual quality.

OR

Draw an imaginary picture of a restaurant.

OR

Draw from imagination a picture of an Indian leader.

Question Number : 83 Question Id : 41652915488 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 30

इस प्रश्न के उत्तर के लिए दिए गए स्थान में निम्नलिखित में से किसी एक का प्रयास करें : 30 अंक
लड़कियों के कमरे के लिए बेड कवर के लिए एक उपयुक्त पैटर्न डिजाइन और चित्रित करें। इसकी दृश्य गुणवत्ता बढ़ाने के लिए इसे रंग या छाया दें।

या

एक रेस्तरां की एक काल्पनिक तस्वीर चित्रित करें।

या

भारतीय नेता की तस्वीर कल्पना से चित्रित करें।