

National Testing Agency

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B ARCH

Group Number :	1
Group Id :	405036112
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Mathematics

Section Id :	405036376
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	25

Number of Questions to be attempted :	25
Section Marks :	100
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	405036723
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 40503610402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Let $A = \{1, 2, 3\}$. Define a relation R on A as :

$$aRb \Leftrightarrow |a^2 - b^2| \leq 5.$$

Then which of the following is not true ?

Options :

40503637911. $R^{-1} = R$, where R^{-1} is the inverse of R .
40503637912. Range of R is A .
40503637913. R is reflexive and symmetric.
40503637914. R is symmetric and transitive.

Question Number : 1 Question Id : 40503610402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

माना $A = \{1, 2, 3\}$ है। A पर एक सम्बन्ध R निम्न द्वारा परिभाषित है :

$$aRb \Leftrightarrow |a^2 - b^2| \leq 5$$

तो निम्न में से कौन सा सत्य नहीं है?

Options :

40503637911. $R^{-1} = R$, जहाँ R^{-1} , R का प्रतिलोम (inverse) है।

40503637912. R का परिसर A है।

40503637913. R स्वतुल्य तथा सममित है।

40503637914. R सममित तथा संक्रामक है।

Question Number : 2 Question Id : 40503610403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The locus of the point

$$z = x + iy \quad (x, y \in \mathbb{R}, i = \sqrt{-1}) \text{ satisfying}$$

$$\arg \left(\frac{z-3}{z+3} \right) = \frac{\pi}{3}, \text{ is :}$$

Options :

40503637915. a circle with radius $= 2\sqrt{3}$

40503637916. a circle with centre at $(\sqrt{3}, 0)$

a circle with centre at $(0, 2\sqrt{3})$ and
 40503637917. radius 3

an ellipse with length of its minor axis
 40503637918. = 3

Question Number : 2 Question Id : 40503610403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

बिन्दु $z = x + iy$ ($x, y \in \mathbb{R}, i = \sqrt{-1}$), जो

$\arg\left(\frac{z-3}{z+3}\right) = \frac{\pi}{3}$ को संतुष्ट करता है, का बिन्दु

पथ है :

Options :

40503637915. एक वृत्त जिसकी त्रिज्या $2\sqrt{3}$ है।

40503637916. एक वृत्त जिसका केन्द्र $(\sqrt{3}, 0)$ है।

40503637917. एक वृत्त जिसका केन्द्र $(0, 2\sqrt{3})$ तथा त्रिज्या 3 है।

40503637918. एक दीर्घवृत्त जिसके लघु अक्ष की लम्बाई 3 है।

Question Number : 3 Question Id : 40503610404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

If both the roots of the equation,
 $x^2 - 2ax + a^2 - 1 = 0$ ($a \in \mathbb{R}$) lie in the interval
 $(-2, 2)$, then the equation,
 $x^2 - (a^2 + 1)x - (a^2 + 2) = 0$ has

Options :

40503637919. both roots in $(-3, 0)$
40503637920. one root in $(0, 2)$ and another root in $(-2, 0)$
40503637921. one root in $[2, 3)$ and another root in $(-2, 0)$
40503637922. one root in $(-3, -2)$ and another root in $(0, 2]$

Question Number : 3 Question Id : 40503610404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

यदि समीकरण, $x^2 - 2ax + a^2 - 1 = 0$ ($a \in \mathbb{R}$) के
दोनों मूल, अन्तराल $(-2, 2)$ में हैं, तो समीकरण,
 $x^2 - (a^2 + 1)x - (a^2 + 2) = 0$:

Options :

40503637919. के दोनों मूल $(-3, 0)$ में हैं।

40503637920. का एक मूल $(0, 2)$ में तथा दूसरा मूल $(-2, 0)$ में है।

40503637921. का एक मूल $[2, 3)$ में तथा दूसरा मूल $(-2, 0)$ में है।

40503637922. का एक मूल $(-3, -2)$ में तथा दूसरा मूल $(0, 2]$ में है।

Question Number : 4 Question Id : 40503610405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

If the system of equations

$$2x + y + pz = -1$$

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

$$5x - 8y + 9z = 5$$

has more than one solution, then $q - p$ is equal to :

Options :

40503637923. 2

40503637924. -2

40503637925. 4

40503637926. -4

Question Number : 4 Question Id : 40503610405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

यदि समीकरण निकाय

$$2x + y + pz = -1$$

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

$$5x - 8y + 9z = 5$$

के एक से अधिक हल हैं, तो $q - p$ बराबर है :

Options :

40503637923. 2

40503637924. -2

40503637925. 4

40503637926. -4

Question Number : 5 Question Id : 40503610406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

All the words (with or without meaning) formed using all the five letters of the word GOING are arranged as in dictionary. Then the word OGGIN occurs at the place which is :

Options :

40503637927. (48)th

40503637928. (49)th

40503637929. (50)th

40503637930. (51)th

Question Number : 5 Question Id : 40503610406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

शब्द GOING के सभी 5 अक्षरों का प्रयोग करते हुए बनाए गए सभी शब्द (चाहे वे अर्थहीन हों या अर्थ वाले हों), शब्दकोश के अनुसार व्यवस्थित किए गए हैं, तो शब्द OGGIN निम्न में से किस स्थान पर आएगा ?

Options :

40503637927. (48) वां

40503637928. (49) वां

40503637929. (50) वां

40503637930. (51) वां

Question Number : 6 Question Id : 40503610407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The sum

$$-\frac{2}{3} + \frac{2}{9^2} + \frac{10}{9^3} + \frac{18}{9^4} + \frac{26}{9^5} + \dots \text{upto}$$

infinity, is equal to :

Options :

40503637931. $-\frac{5}{8}$

40503637932. $\frac{17}{24}$

40503637933. $-\frac{11}{24}$

40503637934. $\frac{5}{8}$

Question Number : 6 Question Id : 40503610407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

योगफल

$$-\frac{2}{3} + \frac{2}{9^2} + \frac{10}{9^3} + \frac{18}{9^4} + \frac{26}{9^5} + \dots \infty$$

बराबर है :

Options :

40503637931. $-\frac{5}{8}$

40503637932. $\frac{17}{24}$

40503637933. $-\frac{11}{24}$

40503637934. $\frac{5}{8}$

Question Number : 7 Question Id : 40503610408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Let r and s be respectively the remainders when $(12)^{23}$ and $(23)^{12}$ are divided by 5, then $r + s$ is equal to :

Options :

40503637935. 5

40503637936. 4

40503637937. 3

40503637938. 2

Question Number : 7 Question Id : 40503610408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

जब $(12)^{23}$ तथा $(23)^{12}$ को 5 से विभाजित किया जाता है तो क्रमशः शेषफल r तथा s हैं, तो $r + s$ बराबर है :

Options :

40503637935. 5

40503637936. 4

40503637937. 3

40503637938. 2

Question Number : 8 Question Id : 40503610409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

Let f be a differentiable function satisfying

$f(x + y) = f(x) + f(y) - xy$ for all $x, y \in \mathbb{R}$. If

$\lim_{h \rightarrow 0} \frac{f(h)}{h} = 3$, then $\sum_{n=1}^{10} f(n)$ is equal to :

Options :

40503637939. $-\frac{55}{2}$

40503637940. $\frac{275}{2}$

40503637941. $-\frac{55}{4}$

40503637942. $\frac{225}{4}$

Question Number : 8 Question Id : 40503610409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

माना f एक अवकलनीय फलन है जो प्रत्येक $x, y \in \mathbb{R}$ के लिए, $f(x+y) = f(x) + f(y) - xy$ को संतुष्ट करता

है। यदि $\lim_{h \rightarrow 0} \frac{f(h)}{h} = 3$ है, तो $\sum_{n=1}^{10} f(n)$ बराबर है :

Options :

40503637939. $-\frac{55}{2}$

40503637940. $\frac{275}{2}$

40503637941. $-\frac{55}{4}$

40503637942. $\frac{225}{4}$

Question Number : 9 Question Id : 40503610410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For non-zero real numbers a, b , if

$$y(x) = \frac{a + bx^{3/2}}{x^{5/4}}, x > 0 \text{ and } y''(5) = 0, \text{ then}$$

the ratio $a : b$ is :

Options :

40503637943. $\sqrt{5} : 3$

40503637944. $3 : \sqrt{5}$

40503637945. $\sqrt{5} : \sqrt{3}$

40503637946. $3 : 1$

Question Number : 9 Question Id : 40503610410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

शून्येतर वास्तविक संख्याओं a तथा b के लिए यदि

$$y(x) = \frac{a + bx^{3/2}}{x^{5/4}}, x > 0 \text{ तथा } y''(5) = 0 \text{ हैं, तो}$$

अनुपात $a : b$ बराबर है :

Options :

40503637943. $\sqrt{5} : 3$

40503637944. $3 : \sqrt{5}$

40503637945. $\sqrt{5} : \sqrt{3}$

40503637946. $3 : 1$

Question Number : 10 Question Id : 40503610411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The function $f(x) = \sin 2x + 2\cos x$,

$x \in \left(-\frac{3\pi}{4}, \frac{3\pi}{4}\right)$ has :

Options :

40503637947. no critical point.

40503637948. a point of local maxima and a point of local minima.

40503637949. a point of local maxima and a point of inflection.

40503637950. a point of local minima and a point of inflection.

Question Number : 10 Question Id : 40503610411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

फलन $f(x) = \sin 2x + 2\cos x$, $x \in \left(-\frac{3\pi}{4}, \frac{3\pi}{4}\right)$

का :

Options :

40503637947. कोई क्रान्तिक बिन्दु नहीं है।

40503637948. एक बिन्दु स्थानीय उच्चिष्ठ है तथा एक बिन्दु स्थानीय निम्निष्ठ है।

40503637949. एक बिन्दु स्थानीय उच्चिष्ठ है तथा एक नतिपरिवर्तन बिन्दु है।

40503637950. एक बिन्दु स्थानीय निम्निष्ठ है तथा एक नतिपरिवर्तन बिन्दु है।

Question Number : 11 Question Id : 40503610412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

The integral $\int \frac{\cos^5 \theta}{\sin \theta (4 - 3 \sin^2 2\theta)} d\theta$ is

equal to :

(where C is a constant of integration)

Options :

40503637951. $\frac{1}{5} \log_e \left| \frac{\cos^5 \theta}{\sin^5 \theta + \cos^5 \theta} \right| + C$

40503637952. $\frac{1}{24} \log_e \left(\frac{\sin^6 \theta}{\sin^6 \theta + \cos^6 \theta} \right) + C$

40503637953. $\frac{1}{20} \log_e \left| \frac{\sin^5 \theta}{\sin^5 \theta + \cos^5 \theta} \right| + C$

40503637954. $\frac{1}{6} \log_e \left(\frac{\cos^6 \theta}{\sin^6 \theta + \cos^6 \theta} \right) + C$

Question Number : 11 Question Id : 40503610412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

समाकल $\int \frac{\cos^5 \theta}{\sin \theta (4 - 3 \sin^2 2\theta)} d\theta$ बराबर है :

(जहाँ C एक समाकलन अचर है।)

Options :

40503637951. $\frac{1}{5} \log_e \left| \frac{\cos^5 \theta}{\sin^5 \theta + \cos^5 \theta} \right| + C$

40503637952. $\frac{1}{24} \log_e \left(\frac{\sin^6 \theta}{\sin^6 \theta + \cos^6 \theta} \right) + C$

40503637953. $\frac{1}{20} \log_e \left| \frac{\sin^5 \theta}{\sin^5 \theta + \cos^5 \theta} \right| + C$

40503637954. $\frac{1}{6} \log_e \left(\frac{\cos^6 \theta}{\sin^6 \theta + \cos^6 \theta} \right) + C$

Question Number : 12 Question Id : 40503610413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) of the region bounded by the parabola $x = 2y^2$ and the line $x + y = 1$ is :

Options :

40503637955. $\frac{11}{12}$

40503637956. $\frac{13}{24}$

40503637957. $\frac{9}{8}$

40503637958. $\frac{5}{4}$

Question Number : 12 Question Id : 40503610413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

परवलय, $x = 2y^2$ तथा रेखा, $x + y = 1$ द्वारा परिबद्ध क्षेत्र का क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

40503637955. $\frac{11}{12}$

40503637956. $\frac{13}{24}$

40503637957. $\frac{9}{8}$

40503637958. $\frac{5}{4}$

Question Number : 13 Question Id : 40503610414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
 Question Mandatory : No 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 $x \log_e x \frac{dy}{dx} + 2y = 2x$ ($x > 1$). If

$\lim_{x \rightarrow 1^+} y(x) = 1$, then $y(e^2)$ is equal to :

Options :

40503637959. $\frac{e^2 - 1}{2}$

40503637960. $\frac{e^2 + 1}{2}$

40503637961. $e^2 - 1$

40503637962. $e^2 + 1$

Question Number : 13 Question Id : 40503610414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

माना $y = y(x)$, अवकल समीकरण,

$x \log_e x \frac{dy}{dx} + 2y = 2x$ ($x > 1$) का हल है। यदि

$\lim_{x \rightarrow 1+} y(x) = 1$ है, तो $y(e^2)$ बराबर है :

Options :

40503637959. $\frac{e^2 - 1}{2}$

40503637960. $\frac{e^2 + 1}{2}$

40503637961. $e^2 - 1$

40503637962. $e^2 + 1$ **Question Number : 14 Question Id : 40503610415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is****Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****Correct Marks : 4 Wrong Marks : 1**

If (x_i, y_i) , $i=1, 2, 3$ are the vertices of an equilateral triangle such that

$$(x_1 + 3)^2 + (y_1 - 4)^2 = (x_2 + 3)^2 + (y_2 - 4)^2 = (x_3 + 3)^2 + (y_3 - 4)^2,$$
 then the value of

$$\frac{y_1 + y_2 + y_3}{x_1 + x_2 + x_3} \text{ is :}$$

Options :

40503637963. $\frac{4}{3}$

40503637964. $-\frac{4}{3}$

40503637965. $\frac{3}{4}$

40503637966. $-\frac{3}{4}$

Question Number : 14 Question Id : 40503610415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****Correct Marks : 4 Wrong Marks : 1**

यदि एक समबाहु त्रिभुज के शीर्ष बिन्दु $(x_i, y_i), i = 1, 2, 3$ हैं जिनके लिए

$$(x_1 + 3)^2 + (y_1 - 4)^2 = (x_2 + 3)^2 + (y_2 - 4)^2 =$$

$$(x_3 + 3)^2 + (y_3 - 4)^2 \text{ है, तो } \frac{y_1 + y_2 + y_3}{x_1 + x_2 + x_3} \text{ का}$$

मान है :

Options :

40503637963. $\frac{4}{3}$

40503637964. $-\frac{4}{3}$

40503637965. $\frac{3}{4}$

40503637966. $-\frac{3}{4}$

Question Number : 15 Question Id : 40503610416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

If tangent at $\left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ to the circle

$x^2 + y^2 = 1$ is also a tangent to the circle

$(x - a)^2 + (y - b)^2 = 1$, then the ordered pair

(a, b) can be :

Options :

40503637967. $(-2, \sqrt{2})$

40503637968. $(-\sqrt{2}, 2\sqrt{2})$

40503637969. $(2, -2\sqrt{2})$

40503637970. $(-\sqrt{2}, \sqrt{2})$

Question Number : 15 Question Id : 40503610416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

यदि वृत्त $x^2 + y^2 = 1$ के बिन्दु $\left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ पर स्पर्श

रेखा वृत्त, $(x - a)^2 + (y - b)^2 = 1$ को भी स्पर्श करती है, तो क्रमित युग्म (a, b) हो सकता है :

Options :

40503637967. $(-2, \sqrt{2})$

40503637968. $(-\sqrt{2}, 2\sqrt{2})$

40503637969. $(2, -2\sqrt{2})$

40503637970. $(-\sqrt{2}, \sqrt{2})$

Question Number : 16 Question Id : 40503610417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The foci of a hyperbola coincide with the foci of the ellipse, $\frac{x^2}{16} + \frac{y^2}{9} = 1$. If the eccentricity of the hyperbola is 4, then its equation is :

Options :

40503637971. $\frac{x^2}{7} - \frac{4y^2}{105} = \frac{1}{4}$

40503637972. $\frac{x^2}{7} - \frac{y^2}{105} = \frac{1}{16}$

40503637973. $\frac{x^2}{20} - \frac{y^2}{75} = \frac{1}{16}$

40503637974. $\frac{x^2}{5} - \frac{y^2}{75} = \frac{1}{16}$

Question Number : 16 Question Id : 40503610417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक अतिपरवलय के नाभि केन्द्र, दीर्घवृत्त,

$\frac{x^2}{16} + \frac{y^2}{9} = 1$ के नाभिकेन्द्रों के समान हैं। यदि

अतिपरवलय की उत्केन्द्रता 4 है, तो इसका समीकरण है :

Options :

40503637971. $\frac{x^2}{7} - \frac{4y^2}{105} = \frac{1}{4}$

40503637972. $\frac{x^2}{7} - \frac{y^2}{105} = \frac{1}{16}$

40503637973. $\frac{x^2}{20} - \frac{y^2}{75} = \frac{1}{16}$

40503637974. $\frac{x^2}{5} - \frac{y^2}{75} = \frac{1}{16}$

Question Number : 17 Question Id : 40503610418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If the plane $P : 2x - y + 3z + 5 = 0$ is rotated through 90° about its line of intersection with the plane $5x - 4y - 2z + 1 = 0$, then the equation of the plane P in the new position is :

Options :

40503637975. $27x - 24y - 26z + 13 = 0$

40503637976. $27x - 24y - 26z - 13 = 0$

40503637977. $31x + 2y - 20z - 13 = 0$

40503637978. $31x - 25y + 29z + 13 = 0$

Question Number : 17 Question Id : 40503610418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

यदि समतल $P : 2x - y + 3z + 5 = 0$ को समतल $5x - 4y - 2z + 1 = 0$ तथा समतल P की प्रतिच्छेदन रेखा के सापेक्ष 90° के कोण पर घुमाया जाता है, तो नयी स्थिति में समतल P का समीकरण है :

Options :

40503637975. $27x - 24y - 26z + 13 = 0$

40503637976. $27x - 24y - 26z - 13 = 0$

40503637977. $31x + 2y - 20z - 13 = 0$

40503637978. $31x - 25y + 29z + 13 = 0$

Question Number : 18 Question Id : 40503610419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The top of two poles, standing 4 m apart on a horizontal plane, are connected by a cable. If the angles of depression from the top of one pole to the bottom of another pole are 30° and 45° , then the minimum length (in m) of the cable is :

Options :

40503637979. $\sqrt{\frac{32\sqrt{3} - 16}{3}}$

40503637980. $\sqrt{\frac{128 - 32\sqrt{3}}{3}}$

40503637981. $\sqrt{\frac{122 - 32\sqrt{3}}{3}}$

40503637982. $\sqrt{\frac{112 - 32\sqrt{3}}{3}}$

Question Number : 18 Question Id : 40503610419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

क्षैतिज तल पर दो खम्बे 4 मीटर की दूरी पर सीधे खड़े हैं जिनके शिखरों को एक केबल (cable) द्वारा जोड़ा गया है। यदि एक खम्बे के शिखर का दूसरे खम्बे के पाद से अवनमन कोण 30° तथा 45° हैं तो केबल की न्यूनतम लम्बाई (मी. में) है :

Options :

40503637979. $\sqrt{\frac{32\sqrt{3} - 16}{3}}$

40503637980. $\sqrt{\frac{128 - 32\sqrt{3}}{3}}$

40503637981. $\sqrt{\frac{122 - 32\sqrt{3}}{3}}$

40503637982. $\sqrt{\frac{112 - 32\sqrt{3}}{3}}$

Question Number : 19 Question Id : 40503610420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Let A, B and C be three events such that the probability of occurrence of exactly one of A and B is $\frac{1}{2}$, the probability of occurrence of exactly one of B and C is $\frac{3}{4}$ and the probability of occurrence of exactly one of C and A is $\frac{1}{4}$. If the probability of occurrence of all the three events simultaneously is $\frac{1}{16}$, then the probability that at least one of the three events will occur is :

Options :

40503637983. $\frac{7}{16}$

40503637984. $\frac{13}{16}$

40503637985. $\frac{7}{8}$

40503637986. $\frac{15}{16}$

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना तीन घटनायें A, B तथा C इस प्रकार हैं कि

A तथा B में से मात्र एक के होने की प्रायिकता $\frac{1}{2}$ है,

B तथा C में से मात्र एक के होने की प्रायिकता $\frac{3}{4}$ है,

और C तथा A में से मात्र एक के होने की प्रायिकता $\frac{1}{4}$

है। यदि तीनों घटनाओं के एक साथ होने की प्रायिकता

$\frac{1}{16}$ है, तो इन तीनों घटनाओं में से कम से कम एक के

होने की प्रायिकता है :

Options :

40503637983. $\frac{7}{16}$

40503637984. $\frac{13}{16}$

40503637985. $\frac{7}{8}$

40503637986. $\frac{15}{16}$

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let

p : I have passed JEE (Main),

q : My JEE (Main) rank is 100, and

r : I will appear in JEE (Advanced)

be three statements with truth values
T, F and T respectively. Then which one of
the following has the truth value, F ?

Options :

40503637987. $(\sim p \vee \sim q) \wedge r$

40503637988. $(p \wedge \sim q) \vee (\sim r)$

40503637989. $(\sim p \vee q) \wedge (\sim r)$

40503637990. $(\sim p \wedge q) \vee r$

Question Number : 20 Question Id : 40503610421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना

p : मैंने JEE (Main) पास कर लिया है,

q : मेरा JEE (Main) में रैंक (Rank) 100 है तथा

r : मैं JEE (Advanced) की परीक्षा दूंगा

तीन कथन हैं, जिनके सत्यमान क्रमशः T, F तथा T हैं।

तो निम्न में से किसका सत्यमान F है?

Options :

40503637987. $(\sim p \vee \sim q) \wedge r$

40503637988. $(p \wedge \sim q) \vee (\sim r)$

40503637989. $(\sim p \vee q) \wedge (\sim r)$

40503637990. $(\sim p \wedge q) \vee r$

Sub-Section Number :

2

Sub-Section Id :

405036724

Question Shuffling Allowed :

Yes

Question Number : 21 Question Id : 40503610422 Question Type : SA Display Question Number : Yes

Correct Marks : 4 Wrong Marks : 0

Let $B = \begin{bmatrix} 22 & -26 \\ -6 & 10 \end{bmatrix}$ be the matrix obtained

by applying the elementary row operations

$R_2 \rightarrow R_2 - R_1$, $R_1 \rightarrow 2R_1$ and

$R_1 \rightarrow R_1 - 2R_2$ (in this order only) on a matrix A. Then the sum of all entries of A is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 21 **Question Id :** 40503610422 **Question Type :** SA **Display Question Number :** Yes

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

यदि आव्यूह A पर प्रारम्भिक पंक्ति संक्रियाओं

$R_2 \rightarrow R_2 - R_1$, $R_1 \rightarrow 2R_1$ तथा

$R_1 \rightarrow R_1 - 2R_2$ (केवल इसी क्रम में) के प्रयोग से

आव्यूह $B = \begin{bmatrix} 22 & -26 \\ -6 & 10 \end{bmatrix}$ प्राप्त होता है, तो A के

सभी अवयवों (entries) का योगफल है _____ ।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 22 Question Id : 40503610423 Question Type : SA Display Question Number : Yes

Correct Marks : 4 Wrong Marks : 0

For $b \in \mathbb{N}$, if the limit of the function

$$f(x) = \begin{cases} [5x - 4], & x < 4 \\ \frac{[x + b]}{2}, & x > 4 \end{cases}$$

when $x \rightarrow 4$, exists and $[t]$ denotes the greatest integer $\leq t$, then b is equal to

_____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 22 Question Id : 40503610423 Question Type : SA Display Question Number : Yes

Correct Marks : 4 Wrong Marks : 0

$$b \in \mathbb{N} \text{ के लिये, फलन } f(x) = \begin{cases} [5x - 4], & x < 4 \\ \frac{[x + b]}{2}, & x > 4 \end{cases}$$

की सीमा जबकि $x \rightarrow 4$ है का अस्तित्व है और $[t]$ महत्तम पूर्णांक $\leq t$ को दर्शाता है, तो b बराबर है

_____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 23 **Question Id :** 40503610424 **Question Type :** SA Display **Question Number :** Yes

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

If $S = \{x \in [0, 4\pi] : \sin 2x - \cos x = 0\}$ and the sum of the elements of S is $k\pi$, then k is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 23 **Question Id :** 40503610424 **Question Type :** SA Display **Question Number :** Yes

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

यदि $S = \{x \in [0, 4\pi] : \sin 2x - \cos x = 0\}$ है तथा समुच्चय S के सभी अवयवों का योगफल $k\pi$ है, तो k बराबर है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 24 Question Id : 40503610425 Question Type : SA Display Question Number : Yes

Correct Marks : 4 Wrong Marks : 0

If the mean of the numbers

$-7, -5, -2, x, 5$ is -1 , then the variance
of the numbers $x-3, 4x, x+3$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 24 Question Id : 40503610425 Question Type : SA Display Question Number : Yes

Correct Marks : 4 Wrong Marks : 0

यदि संख्याओं $-7, -5, -2, x, 5$ का माध्य -1 है,
तो संख्याओं $x-3, 4x, x+3$ का प्रसरण है
_____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 25 Question Id : 40503610426 Question Type : SA Display Question Number : Yes
 Correct Marks : 4 Wrong Marks : 0

If the equation of a plane P passing through

the point $\hat{i} + \hat{j} + \hat{k}$ is

$\vec{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 3$, then the length of

the perpendicular from the point

$4\hat{i} - \hat{j} + 3\hat{k}$ on the plane P is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Question Number : 25 Question Id : 40503610426 Question Type : SA Display Question Number : Yes
 Correct Marks : 4 Wrong Marks : 0

यदि एक समतल P, जो बिन्दु $\hat{i} + \hat{j} + \hat{k}$ से होकर

जाता है का समीकरण $\vec{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 3$ है,

तो बिन्दु $4\hat{i} - \hat{j} + 3\hat{k}$ से समतल P पर डाले गए

लम्ब की लम्बाई है _____ ।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

5 to 5.002

Aptitude Test

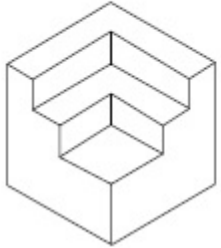
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Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	405036725
Question Shuffling Allowed :	Yes

Question Number : 26 Question Id : 40503610427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

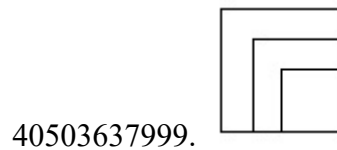
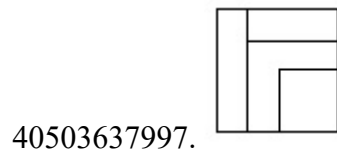
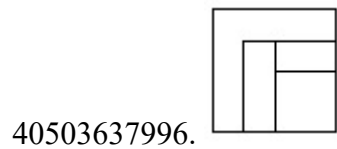
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

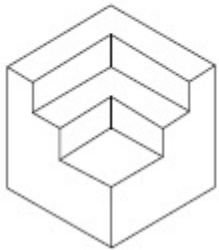


Options :

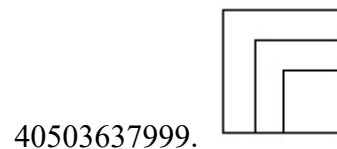
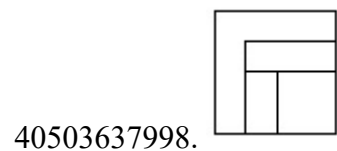
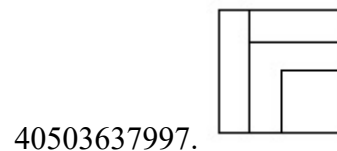
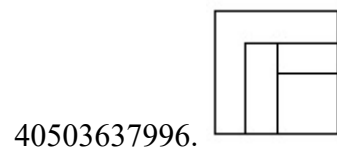


Question Number : 26 Question Id : 40503610427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

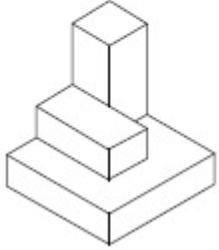


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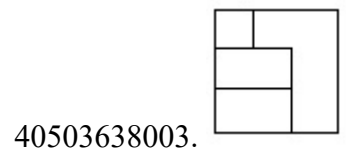
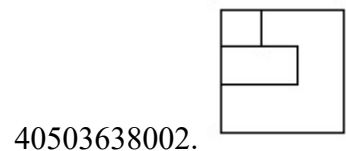
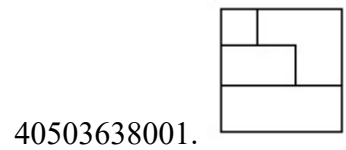
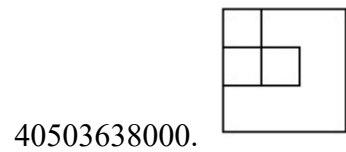


Question Number : 27 Question Id : 40503610428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

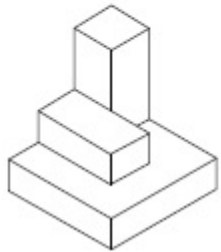


Options :

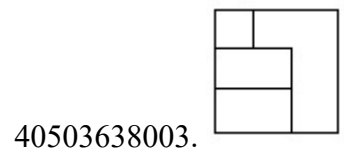
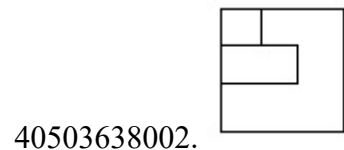
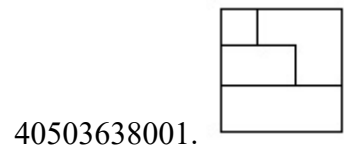
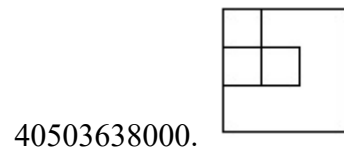


Question Number : 27 Question Id : 40503610428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

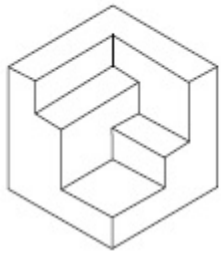


Options :

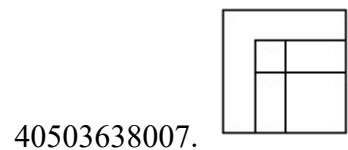
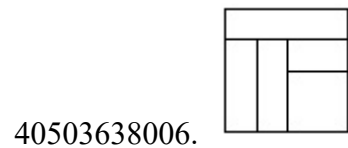
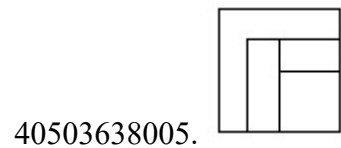
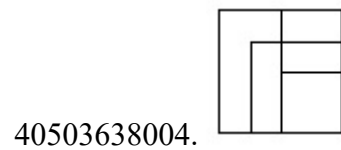


Question Number : 28 Question Id : 40503610429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

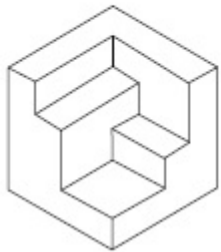


Options :

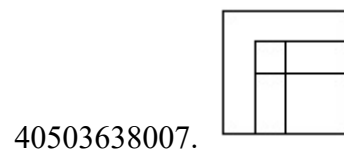
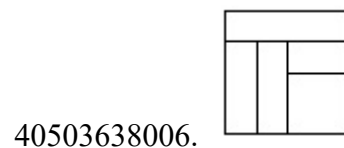
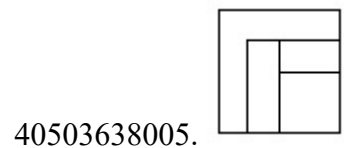
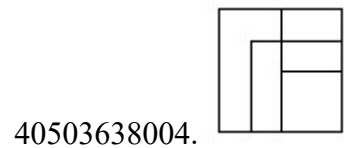


Question Number : 28 Question Id : 40503610429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

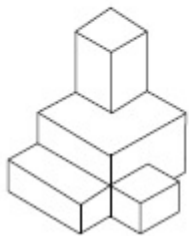


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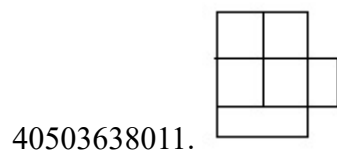
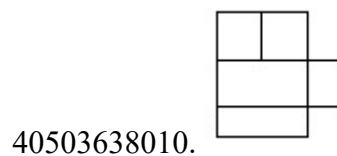
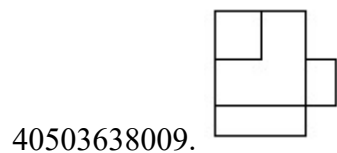
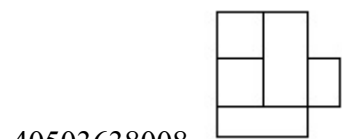


Question Number : 29 Question Id : 40503610430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

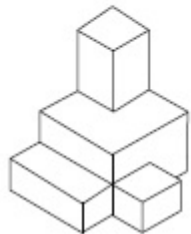


Options :

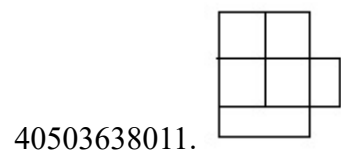
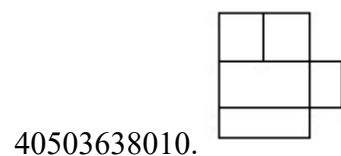
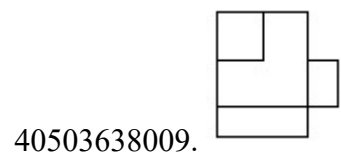
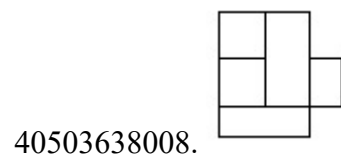


Question Number : 29 Question Id : 40503610430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

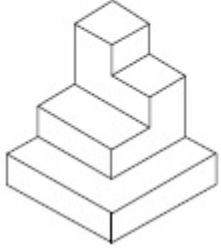


Options :

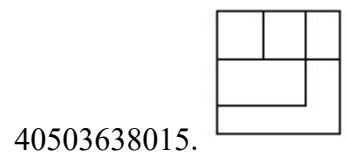
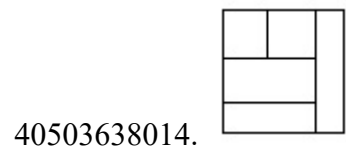
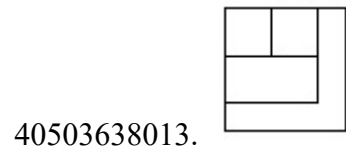
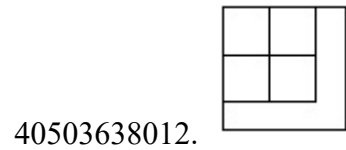


Question Number : 30 Question Id : 40503610431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

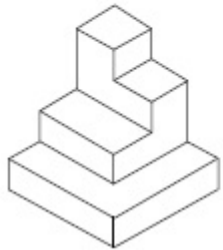


Options :

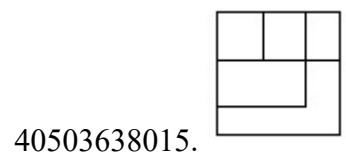
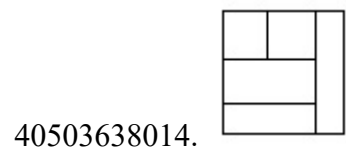
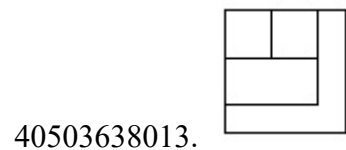
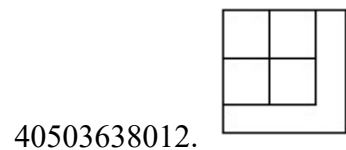


Question Number : 30 Question Id : 40503610431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

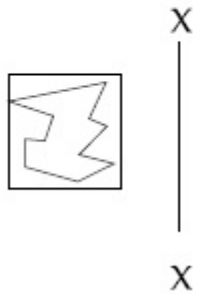


Options :

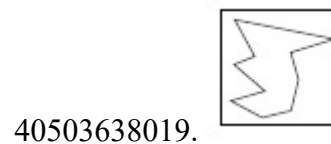
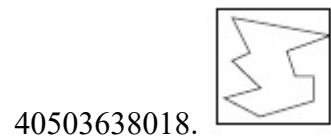
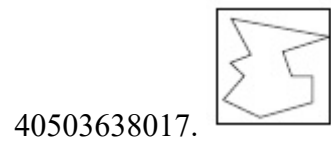
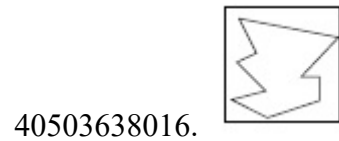


Question Number : 31 Question Id : 40503610432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

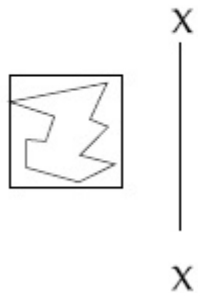


Options :

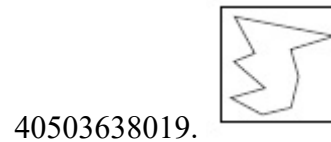
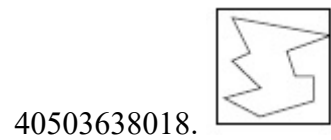
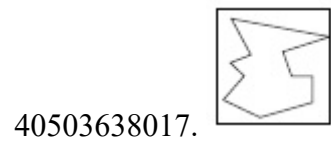
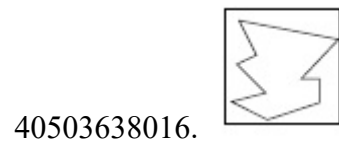


Question Number : 31 Question Id : 40503610432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?

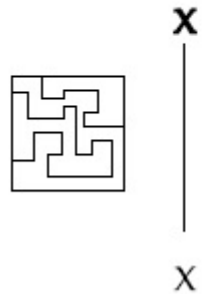


Options :

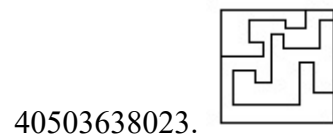
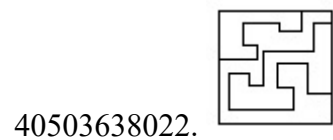
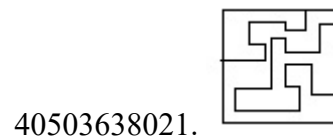
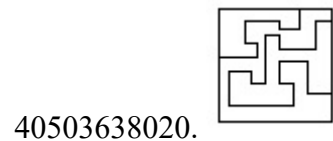


Question Number : 32 Question Id : 40503610433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

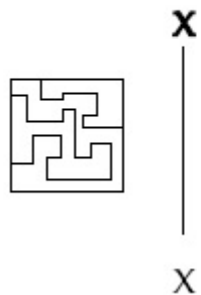


Options :

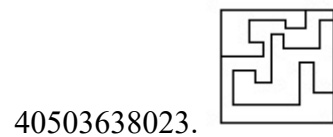
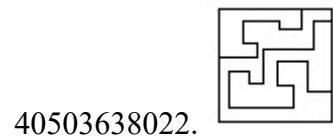
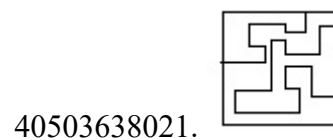
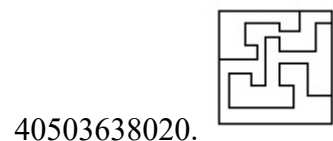


Question Number : 32 Question Id : 40503610433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?

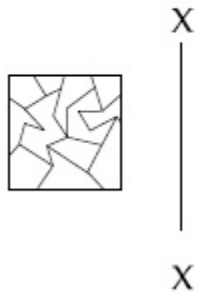


Options :

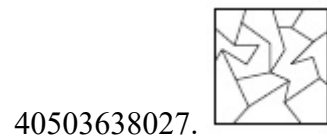
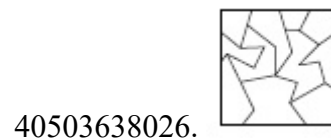
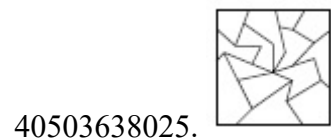
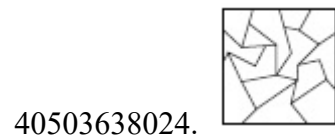


Question Number : 33 Question Id : 40503610434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

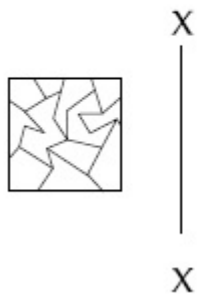


Options :

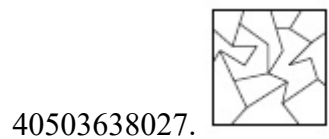
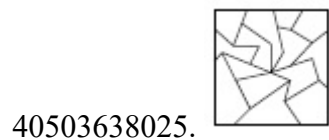
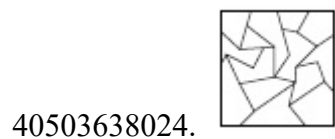


Question Number : 33 Question Id : 40503610434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?



Options :

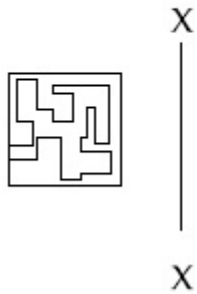


Question Number : 34 Question Id : 40503610435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

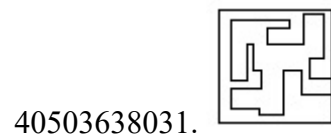
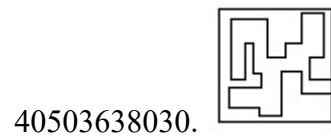
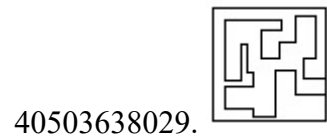
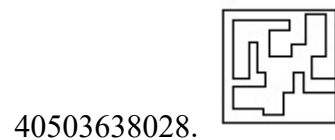
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

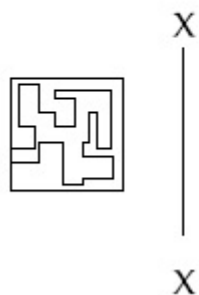


Options :

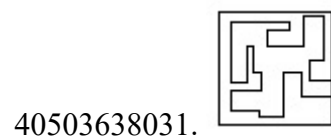
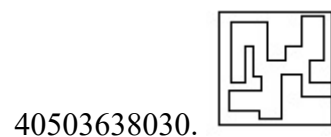
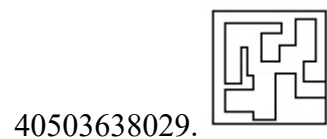
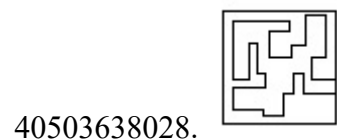


Question Number : 34 Question Id : 40503610435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?

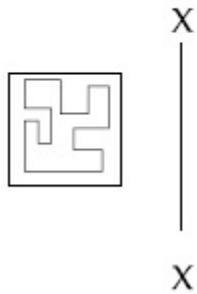


Options :

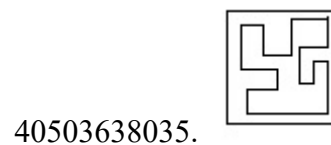
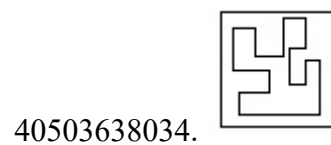
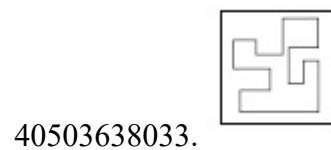
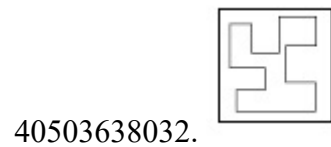


Question Number : 35 Question Id : 40503610436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

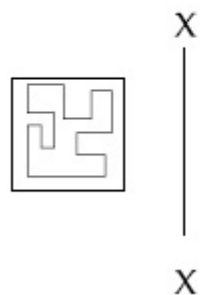


Options :

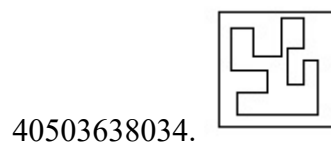
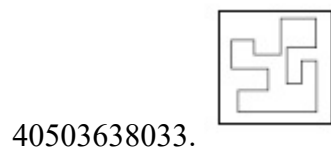
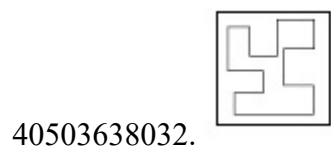


Question Number : 35 Question Id : 40503610436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से कौन सी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?



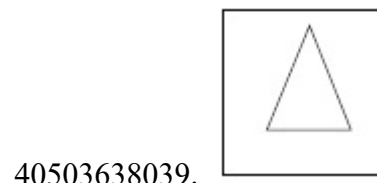
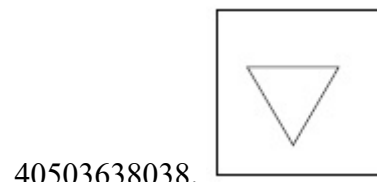
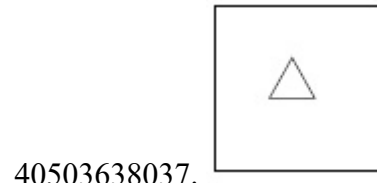
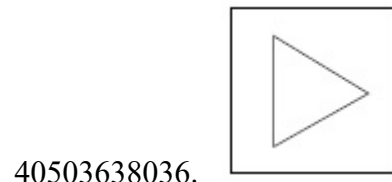
Options :



Question Number : 36 Question Id : 40503610437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Find the odd figure out of the problem figures given below.

Options :



Question Number : 36 Question Id : 40503610437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

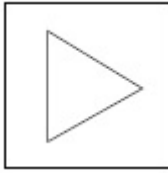
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

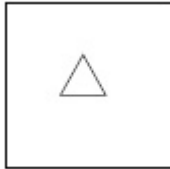
नीचे दी गयी प्रश्न आकृतियों में से विषम आकृति पहचानिये।

Options :

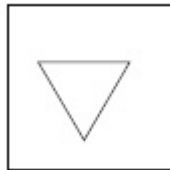
40503638036.



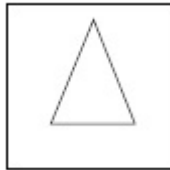
40503638037.



40503638038.



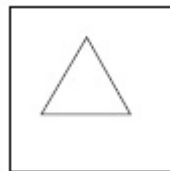
40503638039.



Question Number : 37 Question Id : 40503610438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

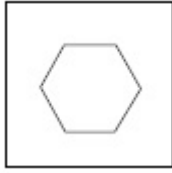
Find the odd figure out of the problem figures given below.

Options :

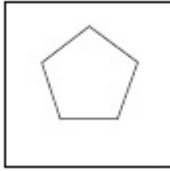


40503638040.

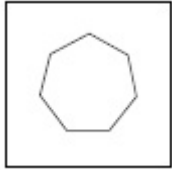
40503638041.



40503638042.



40503638043.



Question Number : 37 Question Id : 40503610438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

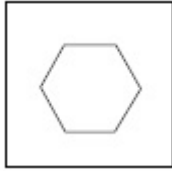
नीचे दी गयी प्रश्न आकृतियों में से विषम आकृति पहचानिये।

Options :

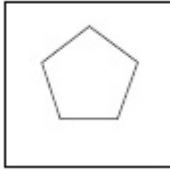
40503638040.



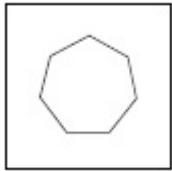
40503638041.



40503638042.



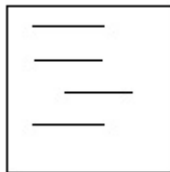
40503638043.



Question Number : 38 Question Id : 40503610439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

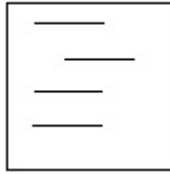
Find the odd figure out of the problem figures given below.

Options :

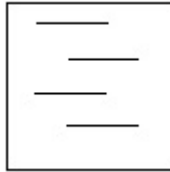


40503638044.

40503638045.



40503638046.



40503638047.

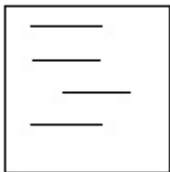


Question Number : 38 Question Id : 40503610439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

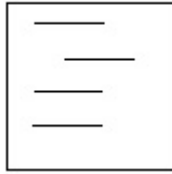
नीचे दी गयी प्रश्न आकृतियों में से विषम आकृति पहचानिये।

Options :

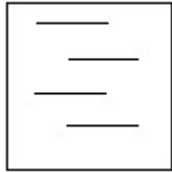
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40503638045.



40503638046.



40503638047.

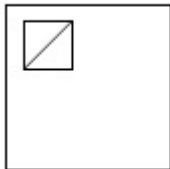


Question Number : 39 Question Id : 40503610440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

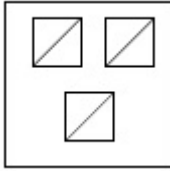
Find the odd figure out of the problem figures given below.

Options :

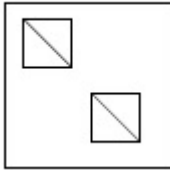
40503638048.



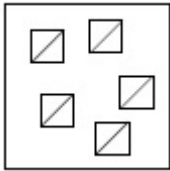
40503638049.



40503638050.



40503638051.

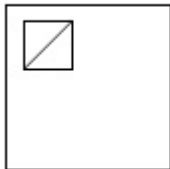


Question Number : 39 Question Id : 40503610440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

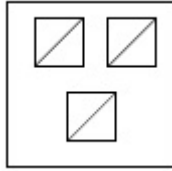
नीचे दी गयी प्रश्न आकृतियों में से विषम आकृति पहचानिये।

Options :

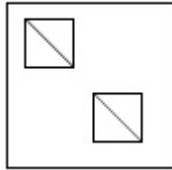
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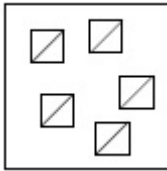
40503638049.



40503638050.



40503638051.

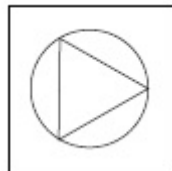


Question Number : 40 Question Id : 40503610441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

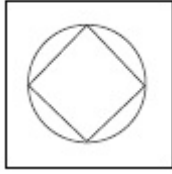
Find the odd figure out of the problem figures given below.

Options :

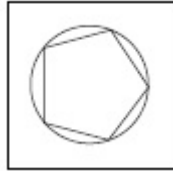
40503638052.



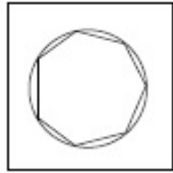
40503638053.



40503638054.



40503638055.

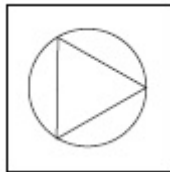


Question Number : 40 Question Id : 40503610441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

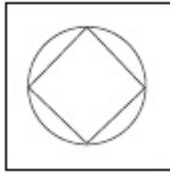
नीचे दी गयी प्रश्न आकृतियों में से विषम आकृति पहचानिये।

Options :

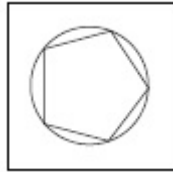
40503638052.



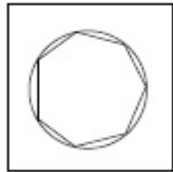
40503638053.



40503638054.

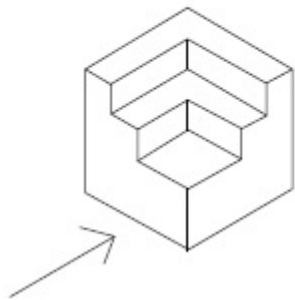


40503638055.



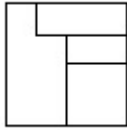
Question Number : 41 Question Id : 40503610442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

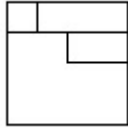


Options :

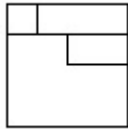
40503638056.



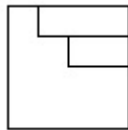
40503638057.



40503638058.

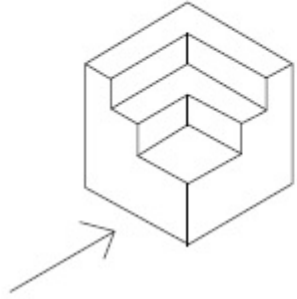


40503638059.

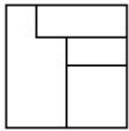


Question Number : 41 Question Id : 40503610442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

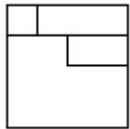
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।



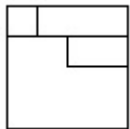
Options :



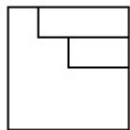
40503638056.



40503638057.



40503638058.



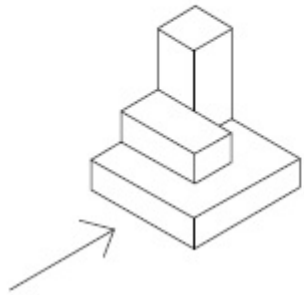
40503638059.

Question Number : 42 Question Id : 40503610443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

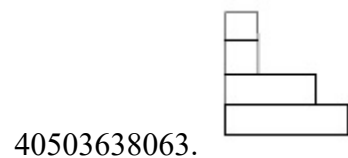
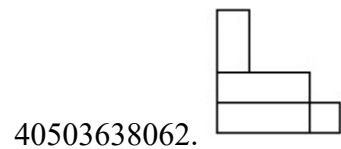
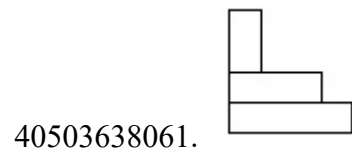
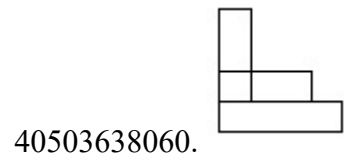
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

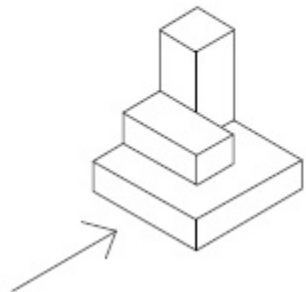


Options :

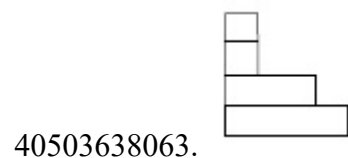
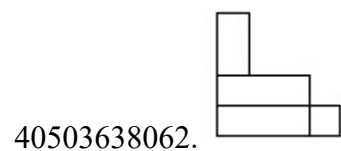
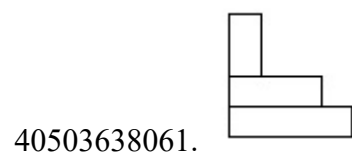
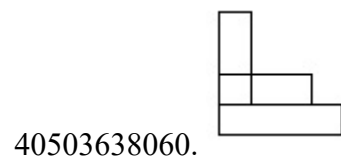


Question Number : 42 Question Id : 40503610443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 4 Wrong Marks : 1

3 - D 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।

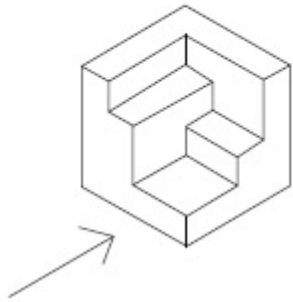


Options :

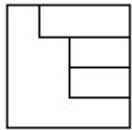


Question Number : 43 Question Id : 40503610444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

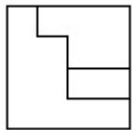
The 3 - D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.



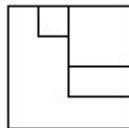
Options :



40503638064.

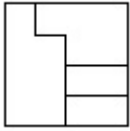


40503638065.



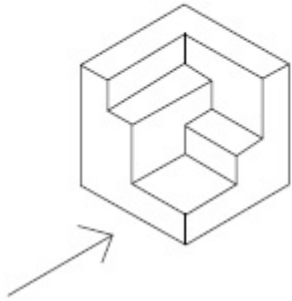
40503638066.

40503638067.

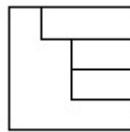


Question Number : 43 Question Id : 40503610444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

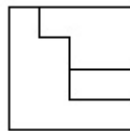
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।



Options :

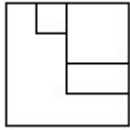


40503638064.

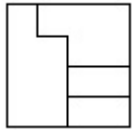


40503638065.

40503638066.

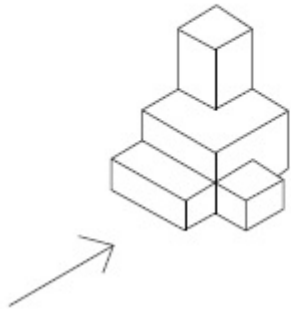


40503638067.

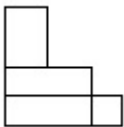


Question Number : 44 Question Id : 40503610445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

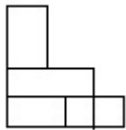


Options :

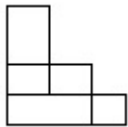


40503638068.

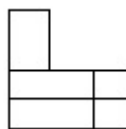
40503638069.



40503638070.

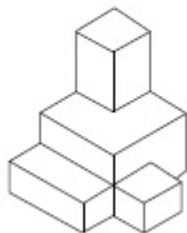


40503638071.



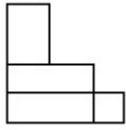
Question Number : 44 Question Id : 40503610445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

3 - D 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।

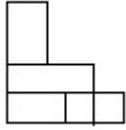


Options :

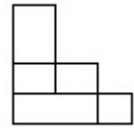
40503638068.



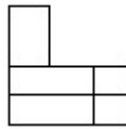
40503638069.



40503638070.

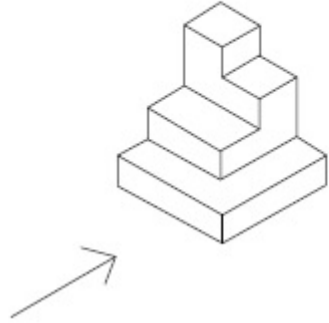


40503638071.

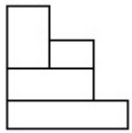


Question Number : 45 Question Id : 40503610446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

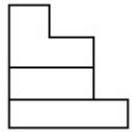
The 3 - D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.



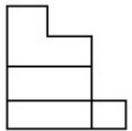
Options :



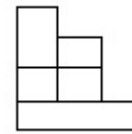
40503638072.



40503638073.



40503638074.



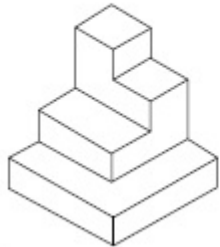
40503638075.

Question Number : 45 Question Id : 40503610446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

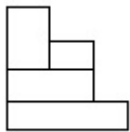
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

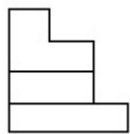
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।



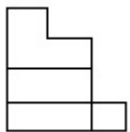
Options :



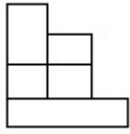
40503638072.



40503638073.



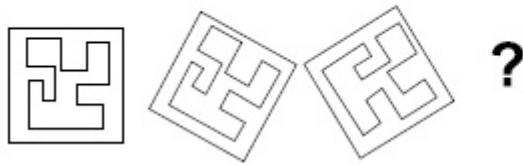
40503638074.



40503638075.

Question Number : 46 Question Id : 40503610447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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

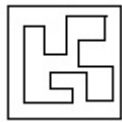


Options :

40503638076.



40503638077.



40503638078.



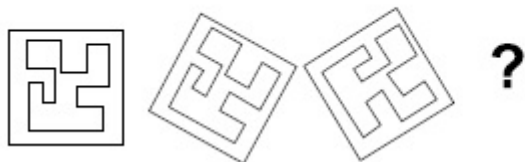
40503638079.



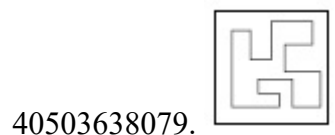
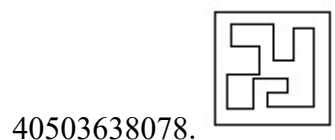
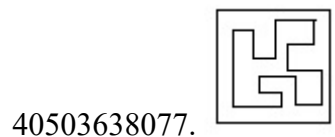
Question Number : 46 Question Id : 40503610447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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



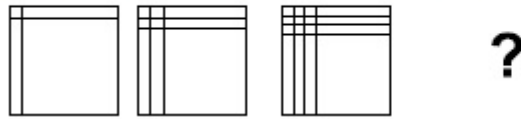
Options :



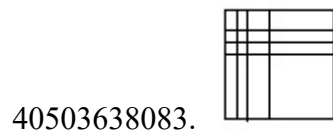
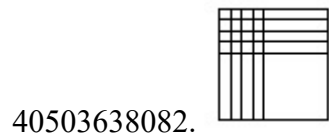
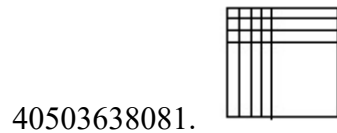
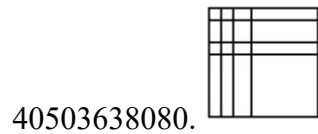
Question Number : 47 Question Id : 40503610448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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



Options :

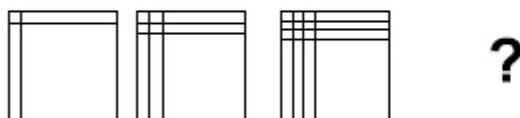


Question Number : 47 Question Id : 40503610448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

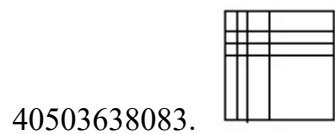
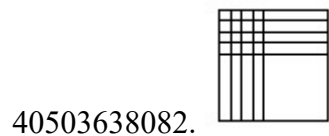
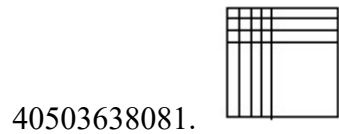
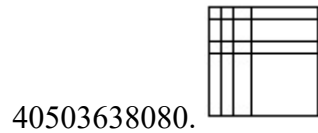
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

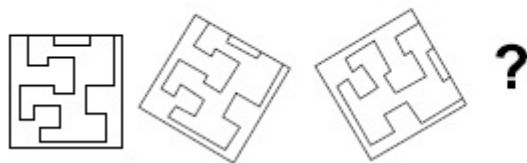


Options :

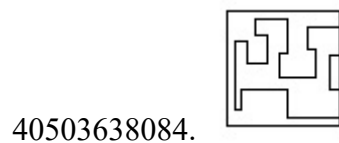


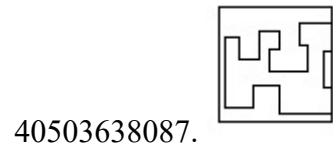
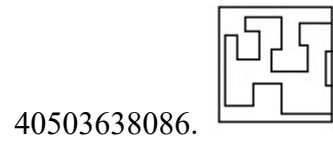
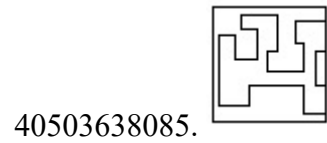
Question Number : 48 Question Id : 40503610449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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



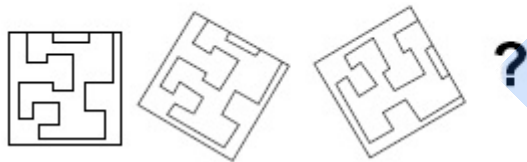
Options :



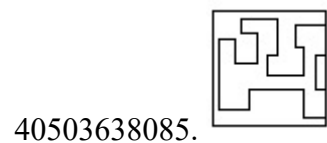
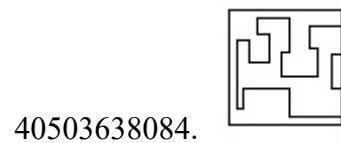


Question Number : 48 Question Id : 40503610449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

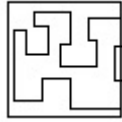
उत्तर आकृतियों में से कौन सी आकृति को तीन प्रश्न आकृतियों में लगाने से अनुक्रम (sequence) पूरा हो जायेगा ?



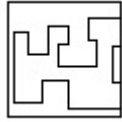
Options :



40503638086.



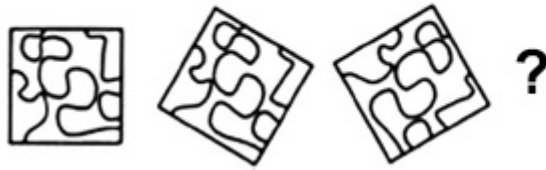
40503638087.



Question Number : 49 Question Id : 40503610450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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



Options :

40503638088.



40503638089.



40503638090.

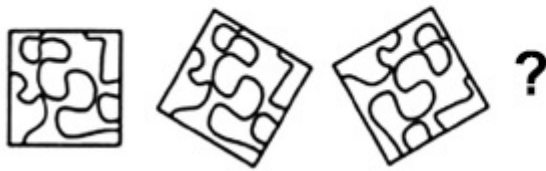




40503638091.

Question Number : 49 Question Id : 40503610450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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



Options :



40503638088.



40503638089.



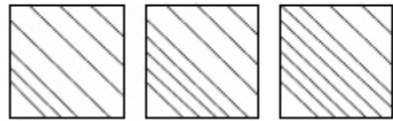
40503638090.



40503638091.

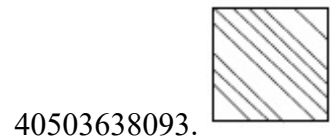
Question Number : 50 Question Id : 40503610451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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



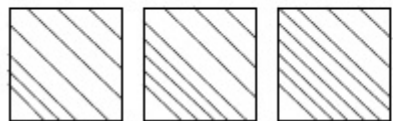
?

Options :



Question Number : 50 Question Id : 40503610451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

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



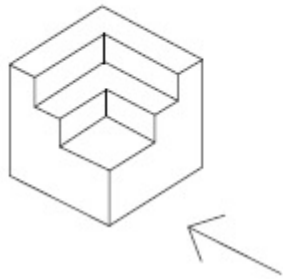
?

Options :

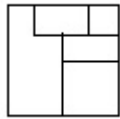


Question Number : 51 Question Id : 40503610452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

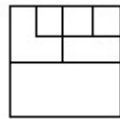
The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



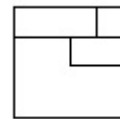
Options :



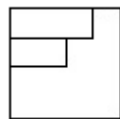
40503638096.



40503638097.



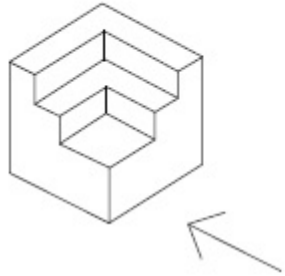
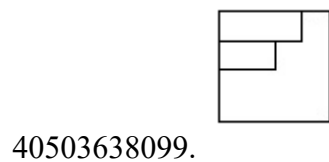
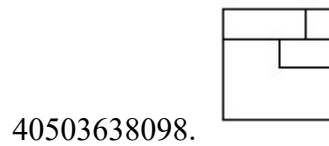
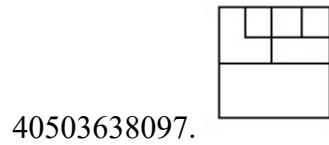
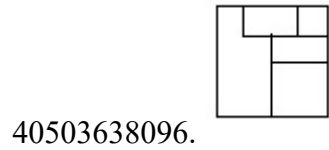
40503638098.



40503638099.

Correct Marks : 4 Wrong Marks : 1

3 - D 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।

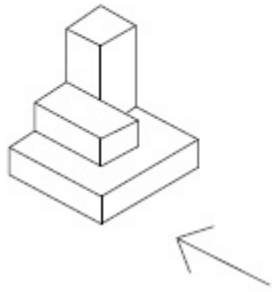
**Options :**

Question Number : 52 Question Id : 40503610453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

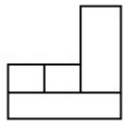
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

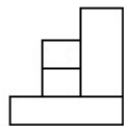
The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



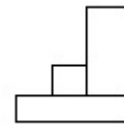
Options :



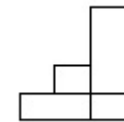
40503638100.



40503638101.



40503638102.

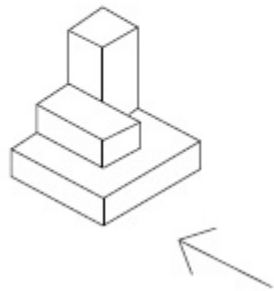


40503638103.

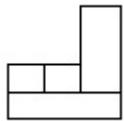
Question Number : 52 Question Id : 40503610453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

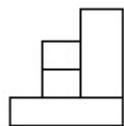
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।



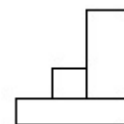
Options :



40503638100.

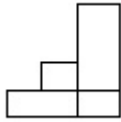


40503638101.



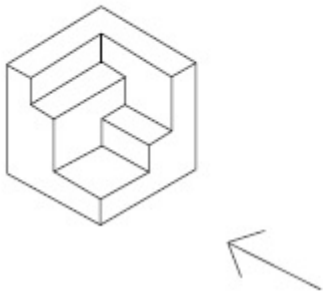
40503638102.

40503638103.



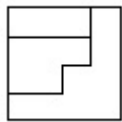
Question Number : 53 Question Id : 40503610454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

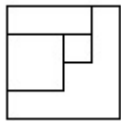


Options :

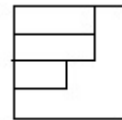
40503638104.



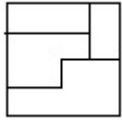
40503638105.



40503638106.

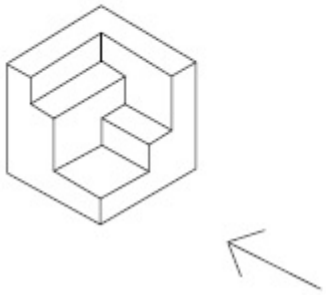


40503638107.



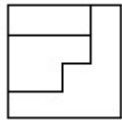
Question Number : 53 Question Id : 40503610454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

3 - D 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।

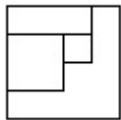


Options :

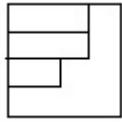
40503638104.



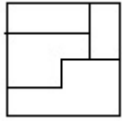
40503638105.



40503638106.

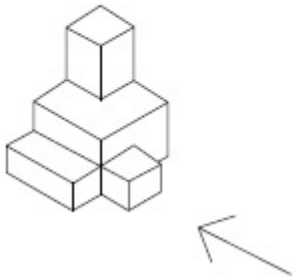


40503638107.



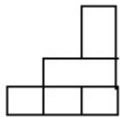
Question Number : 54 Question Id : 40503610455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

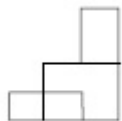


Options :

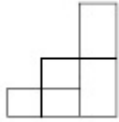
40503638108.



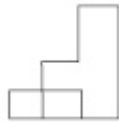
40503638109.



40503638110.

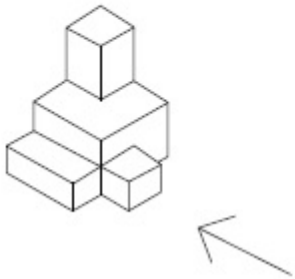


40503638111.



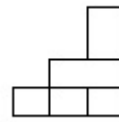
Question Number : 54 Question Id : 40503610455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

3 - D 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।

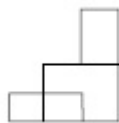


Options :

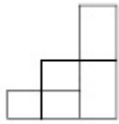
40503638108.



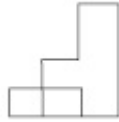
40503638109.



40503638110.

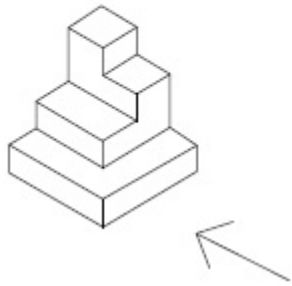


40503638111.



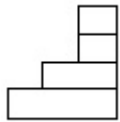
Question Number : 55 Question Id : 40503610456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

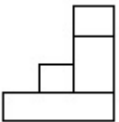


Options :

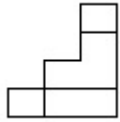
40503638112.



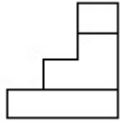
40503638113.



40503638114.

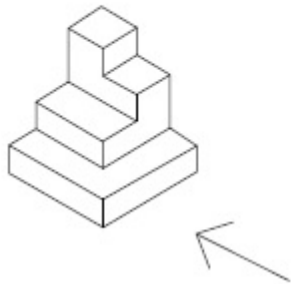


40503638115.



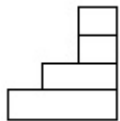
Question Number : 55 Question Id : 40503610456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

3 - D 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।

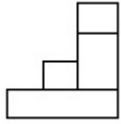


Options :

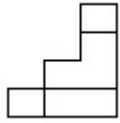
40503638112.



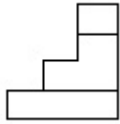
40503638113.



40503638114.

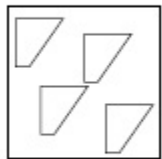


40503638115.

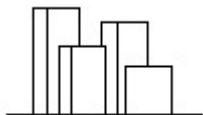


Question Number : 56 Question Id : 40503610457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.



Options :

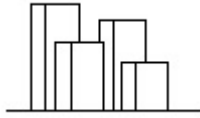


40503638116.

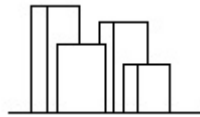
40503638117.



40503638118.



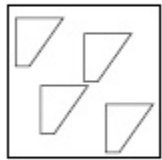
40503638119.



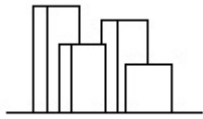
Question Number : 56 Question Id : 40503610457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में वस्तुओं का ऊपरी दृश्य दिखाया गया है। तीर की सह में देखते हुए उत्तर आकृतियों में से सही सम्मुख दृश्य पहचानिये।



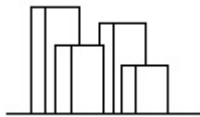
Options :



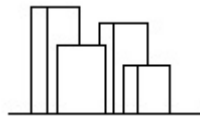
40503638116.



40503638117.



40503638118.

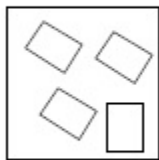


40503638119.

Question Number : 57 Question Id : 40503610458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

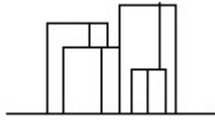
Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

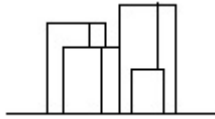


Options :

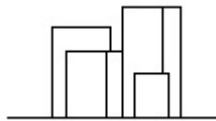
40503638120.



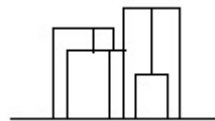
40503638121.



40503638122.

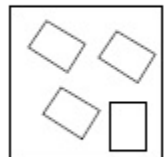


40503638123.



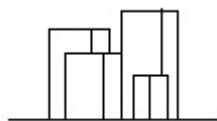
Question Number : 57 Question Id : 40503610458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में वस्तुओं का ऊपरी दृश्य दिखाया गया है। तीर की सिंह में देखते हुए उत्तर आकृतियों में से सही सम्मुख दृश्य पहचानिये।

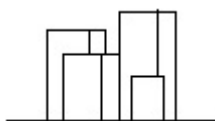


Options :

40503638120.



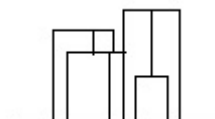
40503638121.



40503638122.

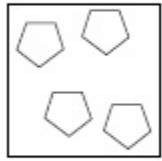


40503638123.

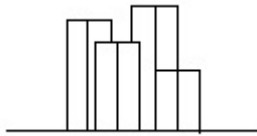


Correct Marks : 4 Wrong Marks : 1

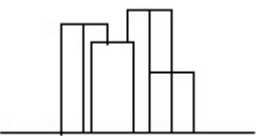
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

**Options :**

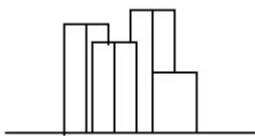
40503638124.



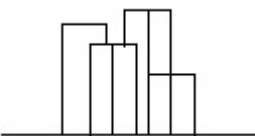
40503638125.



40503638126.



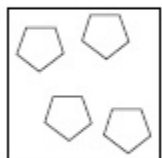
40503638127.



Question Number : 58 Question Id : 40503610459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

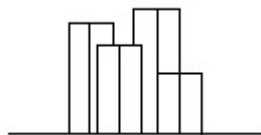
Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में वस्तुओं का ऊपरी दृश्य दिखाया गया है। तीर की सिंह में देखते हुए उत्तर आकृतियों में से सही सम्मुख दृश्य पहचानिये।

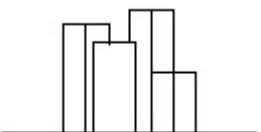


Options :

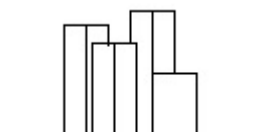
40503638124.



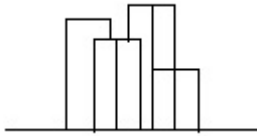
40503638125.



40503638126.



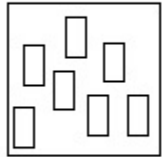
40503638127.



Question Number : 59 Question Id : 40503610460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

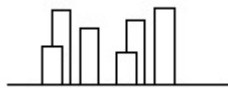
Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

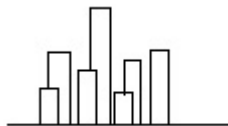


Options :

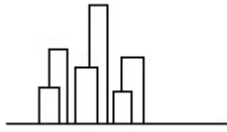
40503638128.



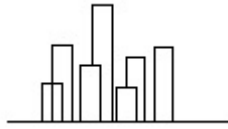
40503638129.



40503638130.

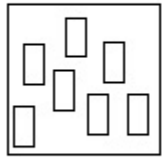


40503638131.



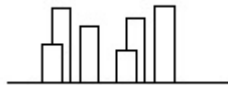
Question Number : 59 Question Id : 40503610460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

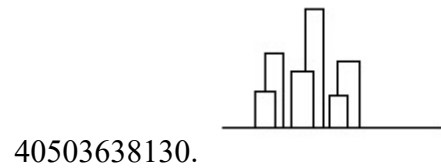
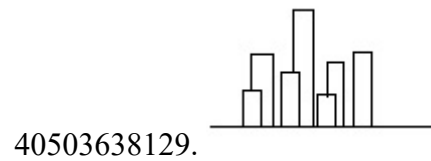
प्रश्न आकृति में वस्तुओं का ऊपरी दृश्य दिखाया गया है। तीर की सिंह में देखते हुए उत्तर आकृतियों में से सही सम्मुख दृश्य पहचानिये।



Options :

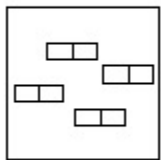
40503638128.



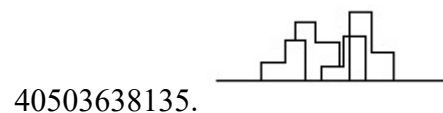
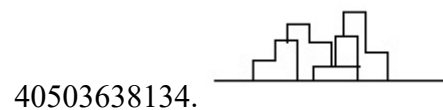
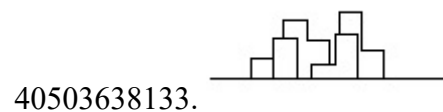
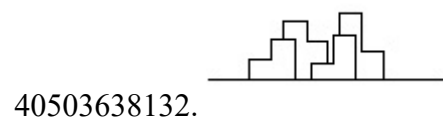


Question Number : 60 Question Id : 40503610461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.



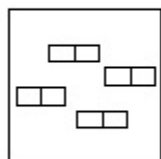
Options :



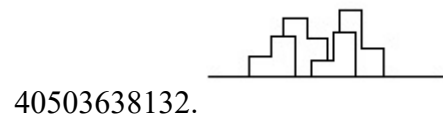
Question Number : 60 Question Id : 40503610461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

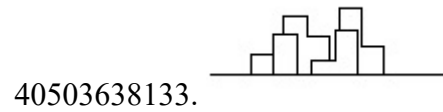
प्रश्न आकृति में वस्तुओं का ऊपरी दृश्य दिखाया गया है। तीर की सहायता में देखते हुए उत्तर आकृतियों में से सही सम्मुख दृश्य पहचानिये।



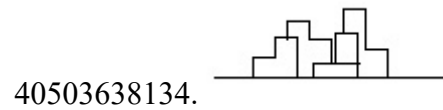
Options :



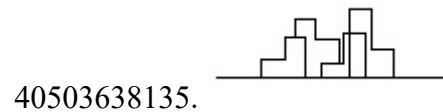
40503638132.



40503638133.



40503638134.



40503638135.

Question Number : 61 Question Id : 40503610462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The White House is which one of the following ?

Options :

40503638136. Residence of Prime Minister of Germany

40503638137. Residence of Prime Minister of France

40503638138. Residence of Prime Minister of Spain

40503638139. Residence of President of USA

Question Number : 61 Question Id : 40503610462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

व्हाइट हाउस निम्नलिखित में से कौन सा है?

Options :

40503638136. जर्मनी के प्रधानमंत्री का निवास

40503638137. फ्रांस के प्रधानमंत्री का निवास

40503638138. स्पेन के प्रधानमंत्री का निवास

40503638139. संयुक्त राज्य अमेरिका के राष्ट्रपति का निवास

Question Number : 62 Question Id : 40503610463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the Northern Hemisphere the summer sun rises from which one of the following directions ?

Options :

40503638140. North East

40503638141. North West

40503638142. South East

Question Number : 62 Question Id : 40503610463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

उत्तरी गोलार्ध में गर्मियों में सूरज निम्न दिशाओं में से
किस एक दिशा से उगता है ?

Options :

40503638140. उत्तर पूर्व

40503638141. उत्तर पश्चिम

40503638142. दक्षिण पूर्व

40503638143. दक्षिण पश्चिम

Question Number : 63 Question Id : 40503610464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which of the following States is the
Golden Temple located ?

Options :

40503638144. Haryana

40503638145. Punjab

40503638146. Assam

40503638147. Nagaland

Question Number : 63 Question Id : 40503610464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन से प्रदेश में स्वर्ण मंदिर स्थित है?

Options :

40503638144. हरियाणा

40503638145. पंजाब

40503638146. असम

40503638147. नागालैंड

Question Number : 64 Question Id : 40503610465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

What is the thickness of a one and a half brick thick wall ?

Options :

40503638148. 9"

40503638149. 12"

40503638150. 18"

40503638151. 13.5"

Question Number : 64 Question Id : 40503610465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

डेढ़ ईंट की मोटी दीवार की मोटाई कितनी होती है?

Options :

40503638148. 9"

40503638149. 12"

40503638150. 18"

40503638151. 13.5"

Question Number : 65 Question Id : 40503610466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one amongst the following supports the masonry above doors and windows ?

Options :

40503638152. Foundation

40503638153. Lintel

40503638154. Slab

40503638155. Wooden frame

Question Number : 65 Question Id : 40503610466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा दरवाजे और खिड़कियों के ऊपर चिनाई का समर्थन करता है?

Options :

40503638152. नींव

40503638153. लिंटल

40503638154. स्लैब

40503638155. लकड़ी का फ्रेम

Question Number : 66 Question Id : 40503610467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The Leaning Tower in Italy is located in which one of the following cities ?

Options :

40503638156. Florence

40503638157. Venice

40503638158. Pisa

40503638159. Rome

Question Number : 66 Question Id : 40503610467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

इटली का लीनिंग टावर निम्न में से किस शहर में स्थित है?

Options :

40503638156. फ्लोरेंस

40503638157. वेनिस

40503638158. पिसा

40503638159. रोम

Question Number : 67 Question Id : 40503610468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the garden of the following is a terraced garden in Srinagar ?

Options :

40503638160. Nishat

40503638161. Vrindaban

40503638162. Buddha

40503638163. Nehru

Question Number : 67 Question Id : 40503610468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा बहुस्तरोँ वाला एक बगीचा
श्रीनगर में स्थित है?

Options :

40503638160. निशात

40503638161. वृंदावन

40503638162. बुद्ध

40503638163. नेहरू

Question Number : 68 Question Id : 40503610469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

What amongst the following is the name
of the famous museum in Hyderabad ?

Options :

40503638164. Falaknuma

40503638165. Salarjung

40503638166. Gandhi

40503638167. Nizam

Question Number : 68 Question Id : 40503610469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा हैदराबाद के प्रसिद्ध संग्रहालय का नाम है?

Options :

40503638164. फलाकनुमा

40503638165. सलारजंग

40503638166. गांधी

40503638167. निजाम

Question Number : 69 Question Id : 40503610470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the color is made when blue and yellow are mixed ?

Options :

40503638168. Violet

40503638169. Orange

40503638170. Green

40503638171. White

Question Number : 69 Question Id : 40503610470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

नीले और पीले रंग के मिश्रण से कौन सा रंग बनता है?

Options :

40503638168. बैंगनी

40503638169. नारंगी

40503638170. हरा

40503638171. सफ़ेद

Question Number : 70 Question Id : 40503610471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following color suggests love and romance ?

Options :

40503638172. Blue

40503638173. Green

40503638174. Pink

40503638175. Brown

Question Number : 70 Question Id : 40503610471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

निम्न रंग में से कौन सा एक प्यार और रोमांस पता चलता है?

Options :

40503638172. नीला

40503638173. हरा

40503638174. गुलाबी

40503638175. भूरा

Question Number : 71 Question Id : 40503610472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following suggests the texture of the skin of the elderly persons ?

Options :

40503638176. Glossy

40503638177. Wrinkled

40503638178. Smooth

40503638179. Soft

Question Number : 71 Question Id : 40503610472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा बुजुर्ग व्यक्तियों की त्वचा की बनावट का सुझाव देता है?

Options :

40503638176. चमकदार

40503638177. झुर्रीदार

40503638178. चिकना

40503638179. नरम

Question Number : 72 Question Id : 40503610473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is fixed to drain water from a sloping roof ?

Options :

40503638180. Ridge

40503638181. Eave

40503638182. J. Bolt

40503638183. Gutter

Question Number : 72 Question Id : 40503610473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन-सा एक जल को छत से निकालने के लिए नियत किया गया है?

Options :

40503638180. रिज

40503638181. एव

40503638182. जे. बोल्ट

40503638183. गटर

Question Number : 73 Question Id : 40503610474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is ideal flooring for a cinema hall ?

Options :

40503638184. Granite

40503638185. Brick

40503638186. Marble

40503638187. Carpet

Question Number : 73 Question Id : 40503610474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन सा सिनेमा हॉल के लिए आदर्श फर्श है ?

Options :

40503638184. ग्रेनाइट

40503638185. ईंट

40503638186. संगमरमर

40503638187. कालीन

Question Number : 74 Question Id : 40503610475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Who among the following is the architect of the Punjab Haryana High Court Building?

Options :

40503638188. Maxwell Fry

40503638189. Le Corbusier

40503638190. Louis Kahn

40503638191. Geoffrey Bawa

Question Number : 74 Question Id : 40503610475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

पंजाब हरियाणा उच्च न्यायालय भवन का वास्तुकार निम्न में से कौन है?

Options :

40503638188. मैक्सवेल फ्राई

40503638189. ले कोर्बुसीर

40503638190. लूइस काह्न

40503638191. जेफ्री बावा

Question Number : 75 Question Id : 40503610476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one among the following is used for water conservation ?

Options :

40503638192. Water drainage

40503638193. Water evaporation

40503638194. Water harvesting

40503638195. Water flowing

Question Number : 75 Question Id : 40503610476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

जल संरक्षण के लिए निम्नलिखित में से कौन सा प्रयोग किया जाता है ?

Options :

40503638192. जल निकासी

40503638193. जल वाष्पीकरण

40503638194. जल संचयन

40503638195. जल प्रवाह

Drawing

Section Id :	405036378
Section Number :	3
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	405036726
Question Shuffling Allowed :	No

Question Number : 76 Question Id : 40503610477 Question Type : SUBJECTIVE Display Question Number : Yes

Correct Marks : 50

In the space provided for the answer of this question, draw an aesthetic composition appropriate to this space using triangles and rectangles. There is no restriction to numbers, sizes, placement and directions of these shapes. Color this composition so that it becomes visually exciting.

Question Number : 76 Question Id : 40503610477 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 50

इस प्रश्न के उत्तर के लिए प्रदान की गई जगह में, त्रिकोणों एवं आयतों का उपयोग करके इस स्थान के लिए उपयुक्त एक सौंदर्य संरचना तैयार करें। इन आकृतियों की संख्या, आकार, प्लेसमेंट और दिशानिर्देशों पर कोई प्रतिबंध नहीं है। इस रचना को रंग दें ताकि यह दृष्टि से रोमांचक हो जाए।

Question Number : 77 Question Id : 40503610478 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 50

Draw from imagination a gardener working in the garden.

OR

Draw from imagination a scene of a place for praying.

OR

Draw from memory your best friends face.

Question Number : 77 Question Id : 40503610478 Question Type : SUBJECTIVE Display Question Number : Yes
Correct Marks : 50

बगीचे में काम करते हुए एक माली की कल्पना से एक चित्र बनायें।

अथवा

कल्पना से प्रार्थना के लिए एक जगह का दृश्य बनाएं।

अथवा

स्मृति से अपने सबसे अच्छे दोस्त का चित्र बनायें।