



Question Paper Name: B ARCH 6th Jan 2020 Shift 1 Set 2
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B ARCH

Group Number : 1
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Mathematics

Section Id : 40503627
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 25
Number of Questions to be attempted: 25
Section Marks: 100

Sub-Section Number: 1
Sub-Section Id: 40503637
Question Shuffling Allowed : Yes

Question Number : 1 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

in a town, 25% families own a phone, 15% families own a car, 65% families own neither a phone nor a car and 2000 families own both a car and a phone.

Consider the following Statements (S) :

- (S₁) : 35% families own at least one of a car or a phone.
(S₂) : 40,000 families live in the town.

Then :

Options :

1. (S₁) is true and (S₂) is false.
2. (S₁) is false and (S₂) is true.
3. Both (S₁) and (S₂) are true.
4. Both (S₁) and (S₂) are false.

Question Number : 1 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

किसी शहर में, 25% परिवारों के पास एक फोन है, 15% परिवारों के पास एक कार है, 65% परिवारों के पास न तो फोन है न ही कार है तथा 2000 परिवारों के पास कार तथा फोन दोनों हैं। निम्न कथनों (S) पर विचार कीजिए :

- (S₁) : 35% परिवारों के पास एक कार या एक फोन में से कम से कम एक है।
(S₂) : शहर में 40,000 परिवार रहते हैं।
तो :

Options :

1. (S₁) सत्य है तथा (S₂) असत्य है।
2. (S₁) असत्य है तथा (S₂) सत्य है।

4. (S_1) तथा (S_2) दोनों असत्य हैं।

Question Number : 1 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

એક નગરમાં 25% કુટુંબો ફોન ધરાવે છે, 15% કુટુંબો કાર ધરાવે છે, 65% કુટુંબો પાસે કાર અને ફોન બંને નથી અને 2000 કુટુંબો પાસે કાર અને ફોન બંને છે. નીચેના વિધાનો (S) ધ્યાને લઈએ :

(S_1) : 35% કુટુંબો પાસે એછામાં ઓછી એક કાર અથવા ફોન છે.

(S_2) : 40,000 કુટુંબો આ નગરમાં રહે છે.

તો

Options :

1. (S_1) સાચું છે અને (S_2) ખોટું છે.

2. (S_1) ખોટું છે અને (S_2) સાચું છે.

3. (S_1) અને (S_2) બંને સાચાં છે.

4. (S_1) અને (S_2) બંને ખોટાં છે.

Question Number : 2 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

If the roots α and β of the equation,

$x^2 - \sqrt{2}x + c = 0$ are complex for some

real number $c \neq 1$ and $\left| \frac{\alpha - \beta}{1 - \alpha\beta} \right| = 1$, then a

value of c is :

1. $-2 + \sqrt{6}$

2. $4 - \sqrt{6}$

3. $3 - \sqrt{6}$

4. $-1 + \sqrt{6}$

Question Number : 2 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

यदि किसी वास्तविक संख्या $c \neq 1$ के लिए समीकरण $x^2 - \sqrt{2}x + c = 0$ के मूल α तथा β सम्मिश्र हैंतथा $\left| \frac{\alpha - \beta}{1 - \alpha\beta} \right| = 1$ है, तो c का एक मान है :

Options :

1. $-2 + \sqrt{6}$

2. $4 - \sqrt{6}$

3. $3 - \sqrt{6}$

4. $-1 + \sqrt{6}$

Question Number : 2 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

નિ બીજા α અને β સંકર સંખ્યા થાય અને

$$\left| \frac{\alpha - \beta}{1 - \alpha\beta} \right| = 1$$
 થતું હોય તો $c =$

Options :

1. $-2 + \sqrt{6}$

2. $4 - \sqrt{6}$

3. $3 - \sqrt{6}$

4. $-1 + \sqrt{6}$

Question Number : 3 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

Let A be a 2×2 matrix such that
 $3A^2 + 6A - 4I = 0$. Then a value of $|A + I|$
is :

Options :

1. $\sqrt{\frac{7}{3}}$

2. $-\frac{7}{3}$

3. $-\frac{7}{\sqrt{3}}$

Question Number : 3 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

माना A एक 2×2 का आव्यूह है जिसके लिए
 $3A^2 + 6A - 4I = 0$ है। तो $|A + I|$ का एक मान है :

Options :

1. $\sqrt{\frac{7}{3}}$

2. $-\frac{7}{3}$

3. $-\frac{7}{\sqrt{3}}$

4. $\frac{3}{7}$

Question Number : 3 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

ધારો કે 2×2 શ્રેણીક A એવો છે કે જેથી
 $3A^2 + 6A - 4I = 0$, તો $|A + I| =$

Options :

1. $\sqrt{\frac{7}{3}}$

2. $-\frac{7}{3}$

3. $\sqrt{3}$

 4. $\frac{3}{7}$

Question Number : 4 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

If $f(x) = \begin{vmatrix} \sin x & \cos x & \tan x \\ x^3 & x^2 & x \\ 2x & 1 & x \end{vmatrix},$

$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right),$ then $\lim_{x \rightarrow 0} \frac{f(x)}{x^2}$ is equal

to :

Options :

1. 0

2. 1

3. 2

4. 3

Question Number : 4 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

यदि $f(x) = \begin{vmatrix} \sin x & \cos x & \tan x \\ x^3 & x^2 & x \\ 2x & 1 & x \end{vmatrix},$

$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$ है, तो $\lim_{x \rightarrow 0} \frac{f(x)}{x^2}$ बराबर है :

Options :

2. 1

3. 2

4. 3

Question Number : 4 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

$$\text{Let } f(x) = \begin{vmatrix} \sin x & \cos x & \tan x \\ x^3 & x^2 & x \\ 2x & 1 & x \end{vmatrix},$$

$$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \text{ then } \lim_{x \rightarrow 0} \frac{f(x)}{x^2} =$$

Options :

1. 0

2. 1

3. 2

4. 3

Question Number : 5 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

respectively, in the expansion of

$$\left(x^4 + 2 + \frac{1}{x^4}\right)^{10} \text{ in powers of } x, \text{ then } \frac{\alpha}{\beta} \text{ is}$$

equal to :

Options :

1. $\frac{13}{2}$

2. 26

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

4. 39

Question Number : 5 Question Type : MCQ Option Shuffling : Yes
 Correct Marks : 4 Wrong Marks : 1

यदि $\left(x^4 + 2 + \frac{1}{x^4}\right)^{10}$ के x की घातों में प्रसार में

x^8 तथा x^{-24} के गुणांक क्रमशः α तथा β हैं, तो $\frac{\alpha}{\beta}$

बराबर है :

Options :

1. $\frac{13}{2}$

2. 26

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

Question Number : 5 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

જો $\left(x^4 + 2 + \frac{1}{x^4}\right)^{10}$ ની x ની ઘાતોમાં વિસ્તરણમાં

x^8 અને x^{-24} ની સહગુણકો અનુક્રમે α અને β હોય

$$\frac{\alpha}{\beta} =$$

Options :

1. $\frac{13}{2}$

2. 26

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

4. 39

Question Number : 6 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

Let $S = 3 + 55 + 333 + 5555 + 33333 + \dots$ upto 22 terms. If $9S + 88 = A(10^{22} - 1)$, then A is equal to :

Options :

1. $\frac{530}{99}$



2. $\frac{88}{88}$

3. $\frac{450}{99}$

4. $\frac{630}{88}$

Question Number : 6 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

माना $S = 3 + 55 + 333 + 5555 + 33333 + \dots$

22 पदों तक, है। यदि $9S + 88 = A(10^{22} - 1)$ है, तो

A बराबर है :

Options :

1. $\frac{530}{99}$

2. $\frac{350}{88}$

3. $\frac{450}{99}$

4. $\frac{630}{88}$

Question Number : 6 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

धारोके $S = 3 + 55 + 333 + 5555 + 33333 + \dots$

22 पदों सुधी. जे $9S + 88 = A(10^{22} - 1)$, तो $A =$

Options :

1. 99

2. $\frac{350}{88}$ 3. $\frac{450}{99}$ 4. $\frac{630}{88}$

Question Number : 7 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

If $x = e^t \sin t$ and $y = e^t \cos t$, t is a parameter,then the value of $\frac{d^2x}{dy^2} + \frac{d^2y}{dx^2}$ at $t = 0$, is :

Options :

1. 0

2. -2

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

4. 2

Question Number : 7 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

(parameter) है, तो $t=0$ पर $\frac{d^2x}{dy^2} + \frac{d^2y}{dx^2}$ का

मान है :

Options :

1. 0

2. -2

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

4. 2

Question Number : 7 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

જો $x = e^t \sin t$ અને $y = e^t \cos t$, t પ્રત્યક્ષ, તો $t=0$

આગળ $\frac{d^2x}{dy^2} + \frac{d^2y}{dx^2}$ ની કિંમત =

Options :

1. 0

2. -2

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

Question Number : 8 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

For non-zero real numbers l, m, n and a , let $f(x) = lx^3 + mx + n$ and $f(a) = f(4a)$. Then the value $x \in [a, 4a]$, at which the tangent to the curve $y = f(x)$ is parallel to the x -axis, is :

Options :

1. $2a$
2. $3a$
3. $\sqrt{5} a$
4. $\sqrt{7} a$

Question Number : 8 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

अशून्य वास्तविक संख्याओं l, m, n तथा a के लिए, माना $f(x) = lx^3 + mx + n$ तथा $f(a) = f(4a)$ हैं। तो $x \in [a, 4a]$ का वह मान, जिस पर वक्र $y = f(x)$ की स्पर्श रेखा x -अक्ष के समान्तर है, है :

Options :

1. $2a$
2. $3a$
3. $\sqrt{5} a$

Question Number : 8 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

શૂન્યેતર વાસ્તવિક સંખ્યાઓ l, m, n અને a માટે ધારો કે

$f(x) = lx^3 + mx + n$ અને $f(a) = f(4a)$. વક્ર

$y = f(x)$ નો સ્પર્શક x -અક્ષને સમાંતર થાય તેવી

$x \in [a, 4a]$ ની કિંમત _____ છે.

Options :

1. $2a$

2. $3a$

3. $\sqrt{5} a$

4. $\sqrt{7} a$

Question Number : 9 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

The set of all positive real values of k , for

which the equation $x^3 - 9x^2 + 24x - k = 0$

has three distinct real roots, is the interval :

Options :

1. $(18, 21)$

2. $(16, 20)$

3. $(12, 16)$

Question Number : 9 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

k के सभी धनात्मक वास्तविक मानों, जिनके लिए
समीकरण $x^3 - 9x^2 + 24x - k = 0$ के तीन विभिन्न
वास्तविक मूल हैं, का समुच्चय निम्न में से कौन सा
अन्तराल है?

Options :

1. (18, 21)
2. (16, 20)
3. (12, 16)
4. (14, 18)

Question Number : 9 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

સમીકરણ $x^3 - 9x^2 + 24x - k = 0$ ને ત્રણ ભિન્ન
વાસ્તવિક બીજ હોય તેવી તમામ ધન વાસ્તવિક સંખ્યાઓ
k નો ગણ નીચેનામાંથી કયો અંતરાલ છે?

Options :

1. (18, 21)
2. (16, 20)
3. (12, 16)

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

Correct Marks : 4 Wrong Marks : 1

The integral $\int \frac{(2 \sin \theta - 1) \cos \theta}{5 - \cos^2 \theta - 4 \sin \theta} d\theta$ is
equal to :
(where C is a constant of integration)

Options :

1. $3 \log_e(2 + \cos \theta) + \frac{2}{2 - \cos \theta} + C$

2. $3 \log_e(2 - \cos \theta) + \frac{2}{2 - \sin \theta} + C$

3. $2 \log_e(2 - \sin \theta) + \frac{3}{2 - \sin \theta} + C$

4. $2 \log_e(2 + \sin \theta) + \frac{3}{2 - \cos \theta} + C$

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

Correct Marks : 4 Wrong Marks : 1

समाकल $\int \frac{(2 \sin \theta - 1) \cos \theta}{5 - \cos^2 \theta - 4 \sin \theta} d\theta$ बराबर
है :
(जहाँ C एक समाकलन अचर है)

Options :

1. $3 \log_e(2 + \cos \theta) + \frac{2}{2 - \cos \theta} + C$

2.

$$3 \log_e(2 + \cos\theta) + \frac{2}{2 - \sin\theta} + C$$

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3.

$$2 \log_e(2 - \sin\theta) + \frac{3}{2 - \sin\theta} + C$$

4.

$$2 \log_e(2 + \sin\theta) + \frac{3}{2 - \cos\theta} + C$$

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

Correct Marks : 4 Wrong Marks : 1

સંકલન $\int \frac{(2 \sin\theta - 1) \cos\theta}{5 - \cos^2\theta - 4 \sin\theta} d\theta =$

(જ્યાં C એ સંકલનનો અચળાંક છે)

Options :

1.

$$3 \log_e(2 + \cos\theta) + \frac{2}{2 - \cos\theta} + C$$

2.

$$3 \log_e(2 - \cos\theta) + \frac{2}{2 - \sin\theta} + C$$

3.

$$2 \log_e(2 - \sin\theta) + \frac{3}{2 - \sin\theta} + C$$

4.

$$2 \log_e(2 + \sin\theta) + \frac{3}{2 - \cos\theta} + C$$

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

Correct Marks : 4 Wrong Marks : 1

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$R = \{(x, y) : y \leq x^2, y \leq 2x + 3, x \leq 1 \text{ and } y + 1 \geq 0\}$ is :

Options :

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

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

3. $\frac{11}{3}$

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

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

Correct Marks : 4 Wrong Marks : 1

क्षेत्र $R = \{(x, y) : y \leq x^2, y \leq 2x + 3, x \leq 1 \text{ तथा } y + 1 \geq 0\}$ का क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

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

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

3. $\frac{11}{3}$

4. 3

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

Correct Marks : 4 Wrong Marks : 1

પ્રદેશ $R = \{(x, y) : y \leq x^2, y \leq 2x + 3, x \leq 1 \text{ અને } y + 1 \geq 0\}$ નું ક્ષેત્રફળ (ચો. એકસમાં) નીચેનામાંથી કેટલું થાય?

Options :

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

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

3. $\frac{11}{3}$

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

W

Question Number : 12 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

Let C be the circle concentric with the circle, $2x^2 + 2y^2 - 6x - 10y = 183$ and having area

$\left(\frac{1}{10}\right)^{\text{th}}$ of the area of this circle. Then a

tangent to C, parallel to the line, $3x + y = 0$ makes an intercept on the y -axis, which is equal to :

Options :

2. 17

3. -4

4. -10

Question Number : 12 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

माना C वह वृत्त है जो वृत्त $2x^2 + 2y^2 - 6x - 10y = 183$ के संकेन्द्री है तथा

जिसका क्षेत्रफल इस वृत्त के क्षेत्रफल का $\left(\frac{1}{10}\right)$ वां

हिस्सा है। तो रेखा $3x + y = 0$ के समान्तर C की एक स्पर्श रेखा y -अक्ष से जो अंतःखंड काटती है, वह है :

Options :

1. 14

2. 17

3. -4

4. -10

Question Number : 12 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

નું ક્ષેત્રફળ આ વર્તુળના ક્ષેત્રફળના $\left(\frac{1}{10}\right)$ મા ભાગનું છે.

તો રેખા $3x + y = 0$ ને સમાંતર એવા C ના સ્પર્શક નો
y-અક્ષ પરનો અંતઃખંડ =

Options :

1. 14
2. 17
3. -4
4. -10

Question Number : 13 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) of the region enclosed
by the lines, $ax \pm by \pm c = 0$ ($a, b, c \in \mathbf{R}$ are
positive and distinct) is :

Options :

1. $\frac{2a^2}{bc}$
2. $\frac{2c^2}{ab}$
3. $\frac{2b^2}{ac}$

4. ab

Question Number : 13 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

रेखाओं $ax \pm by \pm c = 0$ ($a, b, c \in \mathbb{R}$, धनात्मक तथा भिन्न हैं) द्वारा परिबद्ध क्षेत्र का क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

1. $\frac{2a^2}{bc}$

2. $\frac{2c^2}{ab}$

3. $\frac{2b^2}{ac}$

4. $\frac{4c^2}{ab}$

Question Number : 13 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

રેખાઓ $ax \pm by \pm c = 0$ ($a, b, c \in \mathbb{R}$ એ ધન અને ભિન્ન છે) વડે ઘેરાયેલા પ્રદેશનું ક્ષેત્રફળ (ચો. એકમમાં) નીચેનામાંથી કયું થાય?

Options :

1. $\frac{2a^2}{bc}$



2. $\frac{ab}{2}$

3. $\frac{2b^2}{ac}$

4. $\frac{4c^2}{ab}$

Question Number : 14 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

If an ellipse has centre at $(0, 0)$, a focus at $(-3, 0)$ and the corresponding directrix is $3x + 25 = 0$, then it passes through the point :

Options :

1. $\left(\frac{5}{2}, 4\right)$

2. $(-5, -4)$

3. $\left(\frac{5}{\sqrt{2}}, \frac{4}{\sqrt{2}}\right)$

4. $\left(-5, -\frac{4}{\sqrt{2}}\right)$

Question Number : 14 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

यह निम्न में से किस बिन्दु से होकर जाता है?

Options :

1. $\left(\frac{5}{2}, 4\right)$
2. $(-5, -4)$
3. $\left(\frac{5}{\sqrt{2}}, \frac{4}{\sqrt{2}}\right)$
4. $\left(-5, -\frac{4}{\sqrt{2}}\right)$

Question Number : 14 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

જો કોઈ ઉપવલય નું કેન્દ્ર $(0, 0)$ અને નાભિ $(-3, 0)$ આગળ અને અનુરૂપ નિયામિકા $3x + 25 = 0$ હોય તો તે નીચેનામાંથી કયા બિંદુમાંથી પસાર થાય?

Options :

1. $\left(\frac{5}{2}, 4\right)$
2. $(-5, -4)$
3. $\left(\frac{5}{\sqrt{2}}, \frac{4}{\sqrt{2}}\right)$

4.

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

Correct Marks : 4 Wrong Marks : 1

Let P be the point of intersection of two lines

$$\frac{x+10}{1} = \frac{y-21}{7} = \frac{z+11}{5} \quad \text{and}$$

$$\frac{x-1}{5} = \frac{y-46}{9} = \frac{z}{3}. \quad \text{If Q be the point}$$

$(-10, 21, -11)$; then PQ is equal to :

Options :

1. 3

2. 5

3. $5\sqrt{2}$

4. $5\sqrt{3}$

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

Correct Marks : 4 Wrong Marks : 1

माना दो रेखाओं $\frac{x+10}{1} = \frac{y-21}{7} = \frac{z+11}{5}$

तथा $\frac{x-1}{5} = \frac{y-46}{9} = \frac{z}{3}$ का प्रतिच्छेदन बिन्दु

P है। यदि Q बिन्दु $(-10, 21, -11)$ है, तो PQ बराबर है :

Options :

1. 3

3. $5\sqrt{2}$

4. $5\sqrt{3}$

Question Number : 15 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

ધારો કે બે રેખાઓ

$$\frac{x+10}{1} = \frac{y-21}{7} = \frac{z+11}{5} \text{ અને}$$

$$\frac{x-1}{5} = \frac{y-46}{9} = \frac{z}{3} \text{ તો છેલ્લું બિંદુ P છે. જો Q}$$

એ બિંદુ $(-10, 21, -11)$ હોય તો $PQ =$

Options :

1. 3

2. 5

3. $5\sqrt{2}$

4. $5\sqrt{3}$

Question Number : 16 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

$$\vec{r} = (\hat{i} + 2\hat{j} - \hat{k}) + \lambda (\hat{i} - \hat{j} + 2\hat{k}), \lambda \in \mathbb{R}$$

and the plane $\vec{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 4$, then a value of $\cos\theta$ is :

Options :

1. $\frac{\sqrt{11}}{6}$

2. $\frac{\sqrt{13}}{6}$

3. $\frac{\sqrt{35}}{6}$

4. $\frac{\sqrt{7}}{3}$

Question Number : 16 Question Type : MCQ Option Shuffling :

Correct Marks : 4 Wrong Marks : 1

यदि रेखा

$$\vec{r} = (\hat{i} + 2\hat{j} - \hat{k}) + \lambda (\hat{i} - \hat{j} + 2\hat{k}), \lambda \in \mathbb{R}$$

तथा समतल $\vec{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 4$ के बीच का कोण θ है, तो $\cos\theta$ का एक मान है :

Options :

1. $\frac{\sqrt{11}}{6}$

2. $\frac{\sqrt{13}}{6}$

3. $\frac{\sqrt{7}}{6}$ 4. $\frac{\sqrt{7}}{3}$

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

Correct Marks : 4 Wrong Marks : 1

જો θ એ રેખા

$$\vec{r} = (\hat{i} + 2\hat{j} - \hat{k}) + \lambda (\hat{i} - \hat{j} + 2\hat{k}), \lambda \in \mathbb{R}$$

અને સમતલ $\vec{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 4$ વચ્ચેનો ખૂણોહોય તો $\cos\theta =$

Options :

1. $\frac{\sqrt{11}}{6}$ 2. $\frac{\sqrt{13}}{6}$ 3. $\frac{\sqrt{35}}{6}$ 4. $\frac{\sqrt{7}}{3}$

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

Correct Marks : 4 Wrong Marks : 1

Let X be a random variable which takes values k with the probability kp , where $k=1, 2, 3, 4$ and $p \in (0, 1)$. Then the standard deviation of X is :

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Options :

1. 1
2. $\sqrt{7}$
3. 3
4. $\sqrt{10}$

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

Correct Marks : 4 Wrong Marks : 1

माना X एक ऐसा यादृच्छिक चर है जिसके मान k की प्रायिकता kp है, जहाँ $k=1, 2, 3, 4$ तथा $p \in (0, 1)$ हैं। तो X का मानक विचलन है :

Options :

1. 1
2. $\sqrt{7}$
3. 3
4. $\sqrt{10}$

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

Correct Marks : 4 Wrong Marks : 1

સંભાવના kp છે, જ્યાં $k=1, 2, 3, 4$ અને $p \in (0, 1)$,
તો X નું પ્રમાણિત વિચલન નીચેનામાંથી કેટલું થાય?

Options :

1. 1
2. $\sqrt{7}$
3. 3
4. $\sqrt{10}$

Question Number : 18 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

If the probability of a shooter A not hitting a target is 0.5 and that for the shooter B is 0.7, then the probability that either A or B fails to hit the target is :

Options :

1. 0.35
2. 0.25
3. 0.20
4. 0.85

Question Number : 18 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

શૂટર A કો એક લક્ષ્ય કો ન ભેદ પાને કી પ્રાયિકતા 0.5 હૈ તથા શૂટર B કી ઁસી લક્ષ્ય કો ન ભેદ પાને કી પ્રાયિકતા 0.7 હૈ, તો A યા B કે લક્ષ્ય કો ન ભેદ પાને કી પ્રાયિકતા હૈ :

Options :

1. 0.35
2. 0.25
3. 0.20
4. 0.85

Question Number : 18 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

ધારોકે નિશાનબાજ A લક્ષ ન વેધે તેની સંભાવના 0.5 છે અને આ સંભાવના નિશાનબાજ B માટે 0.7 છે. તો નિશાનબાજ A અથવા નિશાનબાજ B લક્ષ વેધવામાં નિષ્ફળ જાય તેની સંભાવના કેટલી થાય?

Options :

1. 0.35
2. 0.25
3. 0.20
4. 0.85

The value of $\cot \frac{\pi}{24}$ is :

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Options :

1. $2 + \sqrt{2} + \sqrt{3} - \sqrt{6}$

2. $1 - \sqrt{2} + \sqrt{3} + \sqrt{6}$

3. $2 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

4. $1 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

Question Number : 19 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

$\cot \frac{\pi}{24}$ का मान है :

Options :

1. $2 + \sqrt{2} + \sqrt{3} - \sqrt{6}$

2. $1 - \sqrt{2} + \sqrt{3} + \sqrt{6}$

3. $2 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

4. $1 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

Question Number : 19 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

$\cot \frac{\pi}{24}$ નું મૂલ્ય નીચેનામાંથી કયું છે?

Options :

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2. $1 - \sqrt{2} + \sqrt{3} + \sqrt{6}$

3. $2 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

4. $1 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

Question Number : 20 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

The Boolean expression

$\sim (p \vee q) \vee (\sim p \wedge q)$ is equivalent to :

Options :

1. p

2. q

3. $\sim q$

4. $\sim p$

Question Number : 20 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

बूलीय व्यंजक $\sim (p \vee q) \vee (\sim p \wedge q)$ निम्न में
से किस के तुल्य है?

Options :

1. p

3. $\sim q$ 4. $\sim p$

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

Correct Marks : 4 Wrong Marks : 1

બૂલિયન નિરૂપણ $\sim (p \vee q) \vee (\sim p \wedge q)$
નીચેનામાંથી કોને સમકક્ષ છે?

Options :

1. p 2. q 3. $\sim q$ 4. $\sim p$

Sub-Section Number:

2

Sub-Section Id:

40503638

Question Shuffling Allowed :

Yes

Question Number : 21 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The largest value of $n \in \mathbb{N}$ for which

$$\frac{74}{n P_n} > \frac{n+3 P_3}{n+1 P_{n+1}} \text{ is } \underline{\hspace{2cm}}.$$

Response Type: Numeric

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Evaluation Required For SA: Yes

Possible Answers :

6 to 6

Question Number : 21 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$n \in \mathbb{N}$ का अधिकतम मान, जिसके लिए

$$\frac{74}{n P_n} > \frac{n+3 P_3}{n+1 P_{n+1}} \text{ है, है } \underline{\hspace{2cm}} \text{।}$$

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

6 to 6

Question Number : 21 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$n \in \mathbb{N}$ ની મહત્તમ કિંમત કે જેના માટે

$$\frac{74}{n P_n} > \frac{n+3 P_3}{n+1 P_{n+1}} \text{ થતું હોય તે } \underline{\hspace{2cm}} \text{ છે.}$$

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

6 to 6

Question Number : 22 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

If $y = y(x)$ is the solution of the differential

$$\text{equation, } x \frac{dy}{dx} = y(\log_e y - \log_e x + 1),$$

when $y(1) = 2$, then $y(2)$ is equal to

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

8 to 8

Question Number : 22 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$x \frac{dy}{dx} = y(\log_e y - \log_e x + 1)$ का हल है,

जबकि $y(1) = 2$ है, तो $y(2)$ का मान है _____ ।

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

8 to 8

Question Number : 22 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

જો $y = y(x)$ એ વિકલ સમીકરણ

$x \frac{dy}{dx} = y(\log_e y - \log_e x + 1)$ જ્યાં $y(1) = 2$

નો ઉકેલ લેય તો $y(2) =$ _____ .

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

8 to 8

Question Number : 23 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

The interior angles of a polygon are all obtuse and are in A.P. If the smallest angle is 120° and common difference of this A.P. is 5° , then the number of sides of the polygon is _____.

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

9 to 9

Question Number : 23 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

एक बहुभुज के सभी अंतःकोण, अधिक कोण हैं तथा समान्तर श्रेढ़ी में हैं। यदि सबसे छोटा कोण 120° का है तथा इस समान्तर श्रेढ़ी का सार्व अन्तर 5° है, तो इस बहुभुज की भुजाओं की संख्या है _____ ।

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Question Number : 23 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

એક બહુકોણના બધાજ અંતઃકોણો ગુરૂકોણ છે અને તે સમાંતર શ્રેણી (A.P.) માં છે. જો સૌથી નાનો ખૂણો 120° નો હોય અને આ સમાંતર શ્રેણીનો સામાન્ય તફાવત 5° નો હોય તો આ બહુકોણની બાજુઓની સંખ્યા = _____ થાય.

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

9 to 9

Question Number : 24 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\lim_{y \rightarrow 0} \frac{(y-2) + 2\sqrt{1+y+y^2}}{2y}$ is equal to _____.

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

1 to 1

Question Number : 24 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\lim_{y \rightarrow 0} \frac{(y-2) + 2\sqrt{1+y+y^2}}{2y}$ बराबर है _____।

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

1 to 1

Question Number : 24 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

$\lim_{y \rightarrow 0} \frac{(y-2) + 2\sqrt{1+y+y^2}}{2y}$ = _____.

Response Type: Numeric

Answers Type: Range

Possible Answers :

1 to 1

Question Number : 25 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

If $S = \{z \in \mathbb{C} : \bar{z} = iz^2\}$, then the maximum value of $|z - \sqrt{3} - i|^2$ on S is _____.

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

9 to 9

Question Number : 25 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

यदि $S = \{z \in \mathbb{C} : \bar{z} = iz^2\}$, तो S पर $|z - \sqrt{3} - i|^2$ का अधिकतम मान है _____।

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

9 to 9

Question Number : 25 Question Type : SA

Correct Marks : 4 Wrong Marks : 0

જો $S = \{z \in \mathbb{C} : \bar{z} = iz^2\}$, હોય તો $|z - \sqrt{3} - i|^2$ ની S પરની મહત્તમ કિંમત = _____ થાય.

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Range

Possible Answers :

9 to 9

Aptitude Test

Section Id :

40503628

Section Number :

2

Section type :

Online

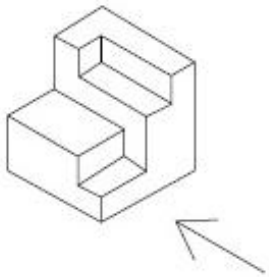
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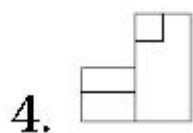
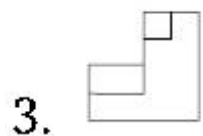
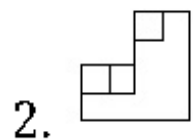
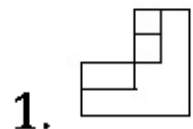
Sub-Section Number: 1
Sub-Section Id: 40503639
Question Shuffling Allowed : Yes

Question Number : 26 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

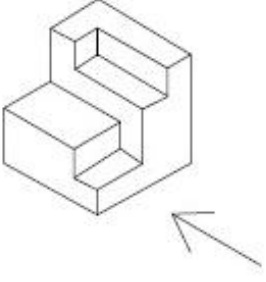
The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



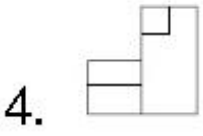
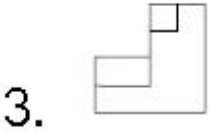
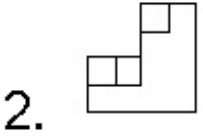
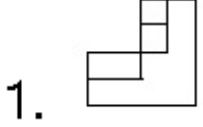
Options :



Question Number : 26 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1



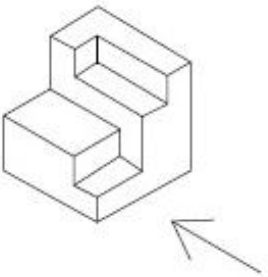
Options :



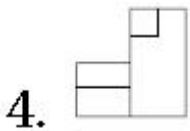
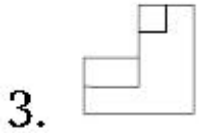
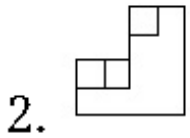
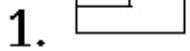
Question Number : 26 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. તીરની દિશામાં જોતાં, આનું સાચું દશ્ય જવાબ આકૃતિઓમાંથી શોધો.

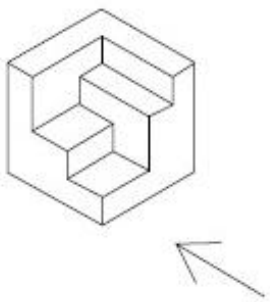


Options :

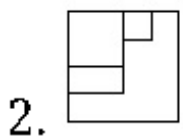
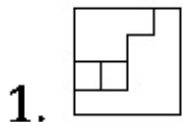


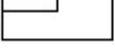
Question Number : 27 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

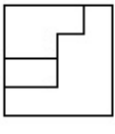
The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



Options :



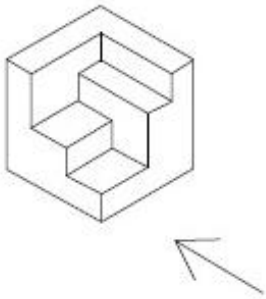
3. 

4. 

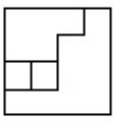
Question Number : 27 Question Type : MCQ Option Shuffling : Yes

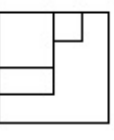
Correct Marks : 4 Wrong Marks : 1

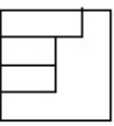
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।

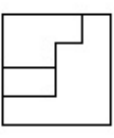


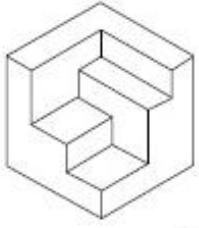
Options :

1. 

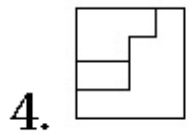
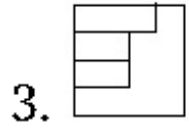
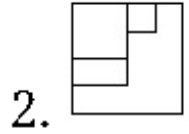
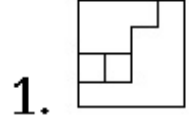
2. 

3. 

4. 



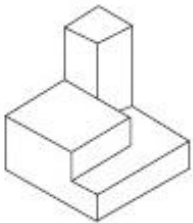
Options :

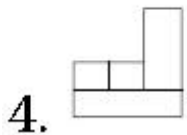
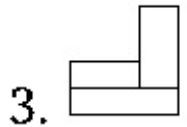
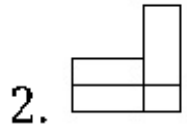
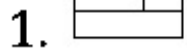


Question Number : 28 Question Type : MCQ Option Shuffling : Yes

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.

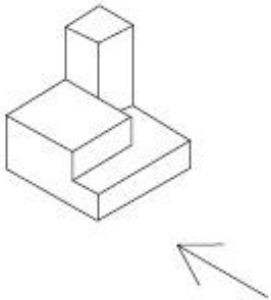




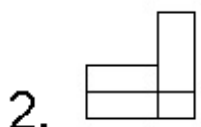
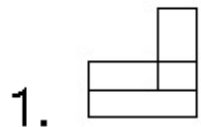
Question Number : 28 Question Type : MCQ Option Shuffling : Yes

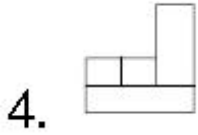
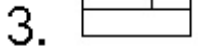
Correct Marks : 4 Wrong Marks : 1

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 :

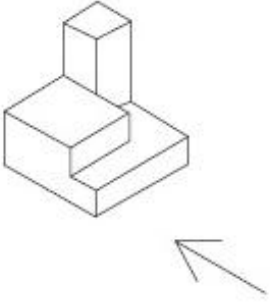




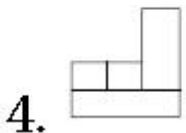
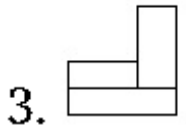
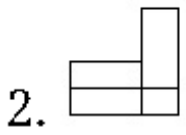
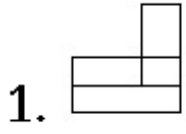
Question Number : 28 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

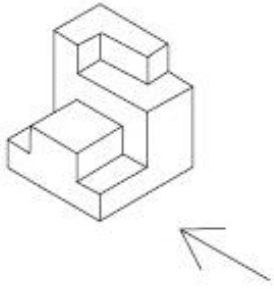
3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. ત્રીસની દિશામાં જોતાં, આનું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.



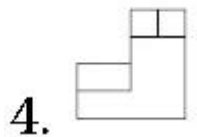
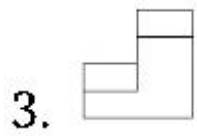
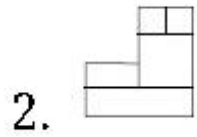
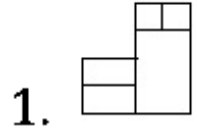
Options :



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.

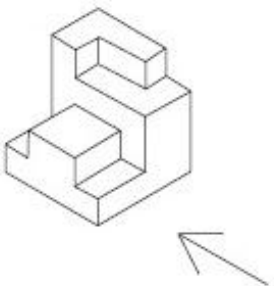


Options :

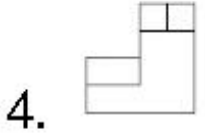
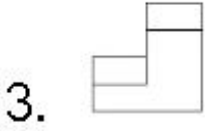
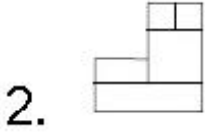
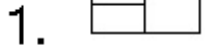


Question Number : 29 Question Type : MCQ Option Shuffling : Yes
 Correct Marks : 4 Wrong Marks : 1

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।



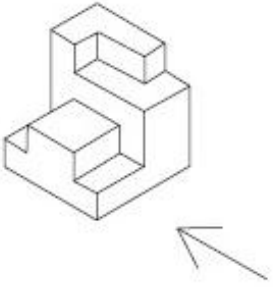
Options :



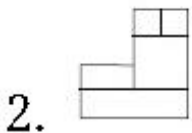
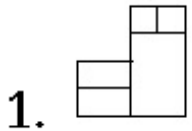
Question Number : 29 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

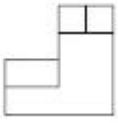
3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દર્શ્ય બતાવે છે. ત્રીસની દિશામાં જોતાં, આનું સાચું દર્શ્ય જવાબ આકૃતિઓમાંથી શોધો.



Options :



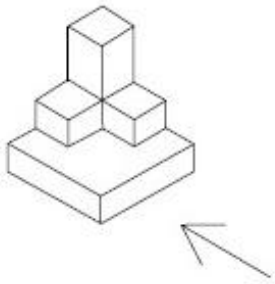
3. 

4. 

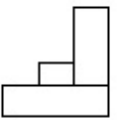
Question Number : 30 Question Type : MCQ Option Shuffling : Yes

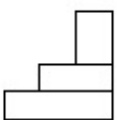
Correct Marks : 4 Wrong Marks : 1

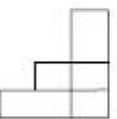
The 3-D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

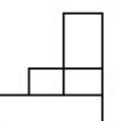


Options :

1. 

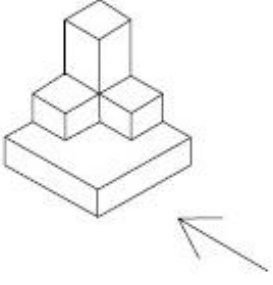
2. 

3. 

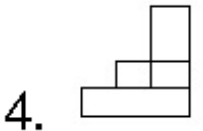
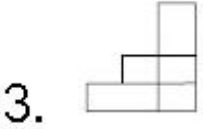
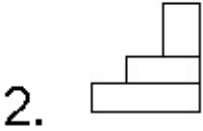
4. 

Question Number : 30 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1



Options :

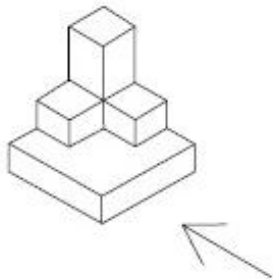


W

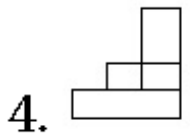
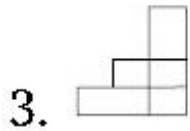
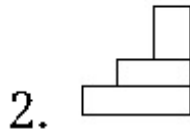
Question Number : 30 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં, આનું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.

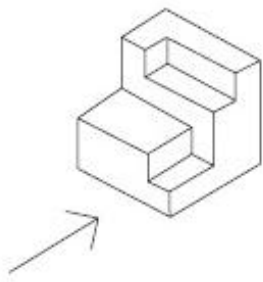


Options :

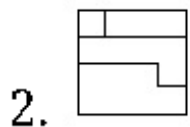
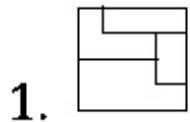


Question Number : 31 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

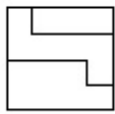
The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



Options :



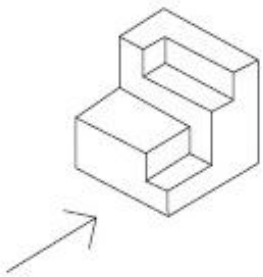
3. 

4. 

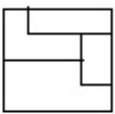
Question Number : 31 Question Type : MCQ Option Shuffling : Yes

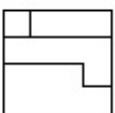
Correct Marks : 4 Wrong Marks : 1

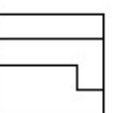
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।

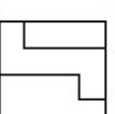


Options :

1. 

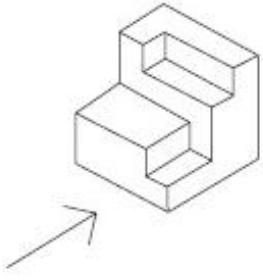
2. 

3. 

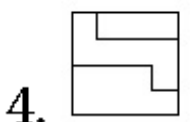
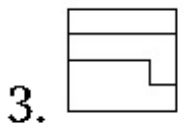
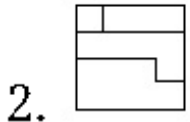
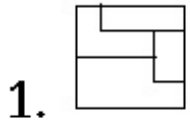
4. 

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

Correct Marks : 4 Wrong Marks : 1



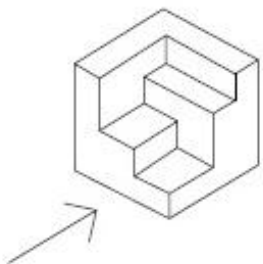
Options :



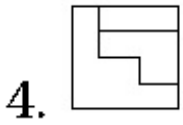
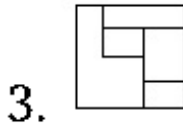
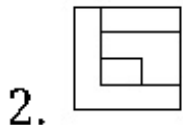
Question Number : 32 Question Type : MCQ Option Shuffling : Yes

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.



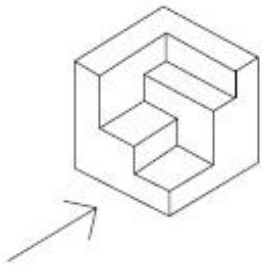
Options :



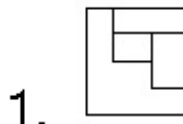
Question Number : 32 Question Type : MCQ Option Shuffling : Yes

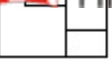
Correct Marks : 4 Wrong Marks : 1

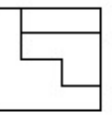
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। तीर की दिशा में देखते हुए, इसके सम्मुख दृश्य को उत्तर आकृतियों में से पहचानिये।



Options :

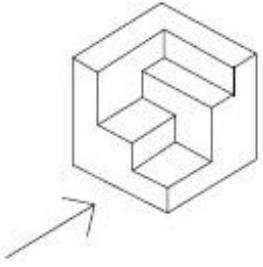


3. 

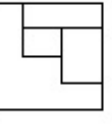
4. 

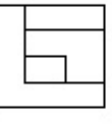
Question Number : 32 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

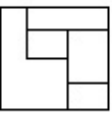
3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. ત્રીસની દિશામાં જોતાં આનું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.

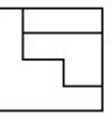


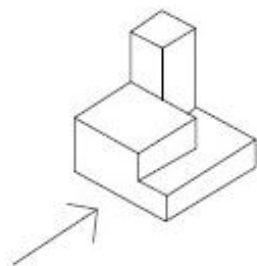
Options :

1. 

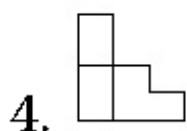
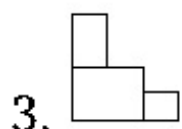
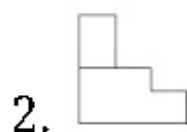
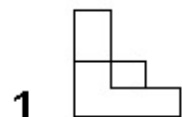
2. 

3. 

4. 



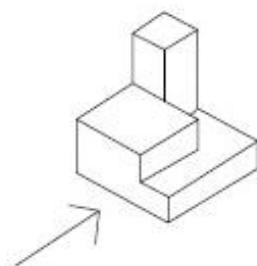
Options :



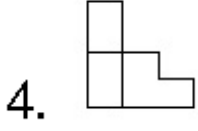
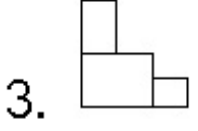
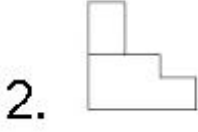
Question Number : 33 Question Type : MCQ Option Shuffling : Yes

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।

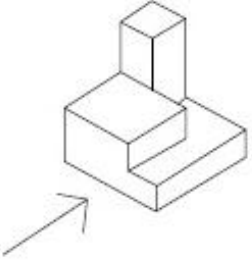


Options :

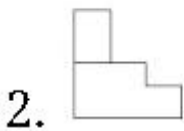
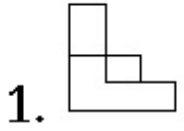


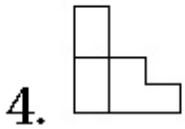
Question Number : 33 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દર્શ્ય બતાવે છે. ત્રીસની દિશામાં જોતાં આનું સાચું દર્શ્ય જવાબ આકૃતિઓમાંથી શોધો.



Options :

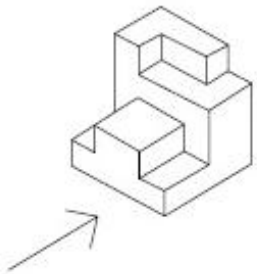




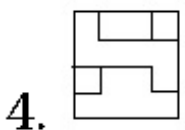
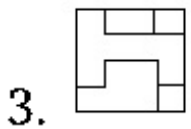
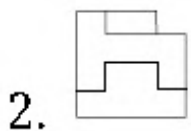
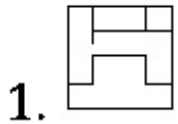
Question Number : 34 Question Type : MCQ Option Shuffling : Yes

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.

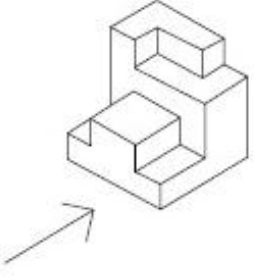


Options :

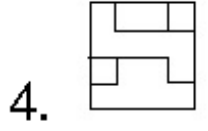
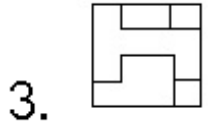
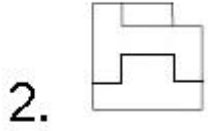
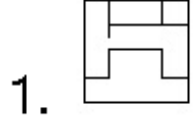


Question Number : 34 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1



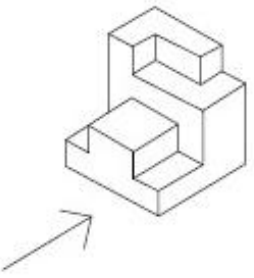
Options :



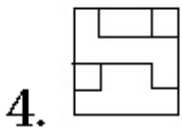
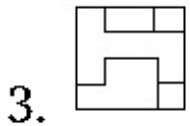
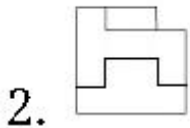
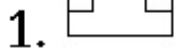
Question Number : 34 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં આનું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.



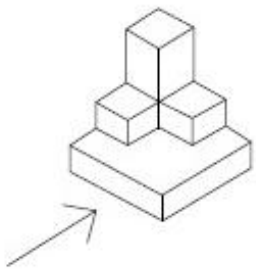
Options :



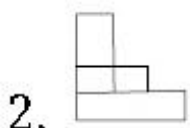
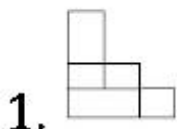
Question Number : 35 Question Type : MCQ Option Shuffling : Yes

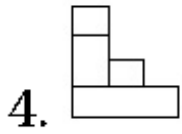
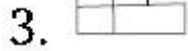
Correct Marks : 4 Wrong Marks : 1

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 :

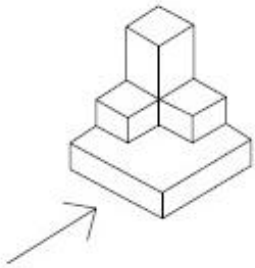




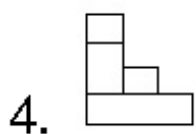
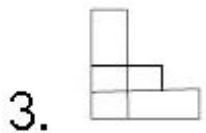
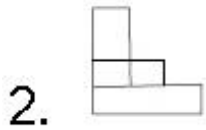
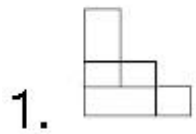
Question Number : 35 Question Type : MCQ Option Shuffling : Yes

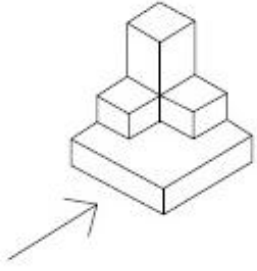
Correct Marks : 4 Wrong Marks : 1

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।

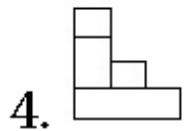
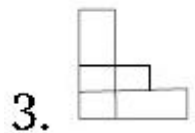
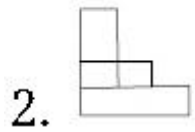
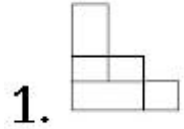


Options :





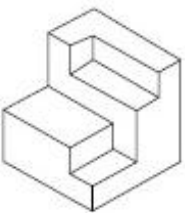
Options :



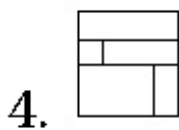
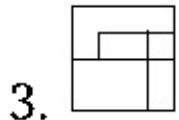
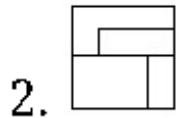
Question Number : 36 Question Type : MCQ Option Shuffling : Yes

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.



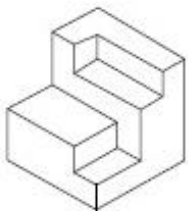
Options :



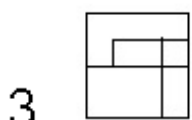
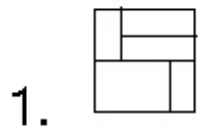
Question Number : 36 Question Type : MCQ Option Shuffling : Yes

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 :

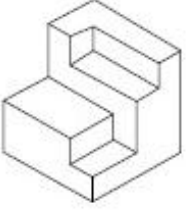


4. 

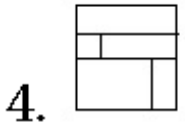
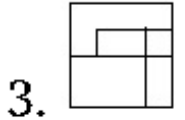
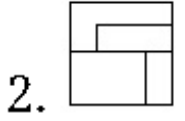
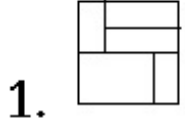
Question Number : 36 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. આનું સાચું ઉપરી દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.

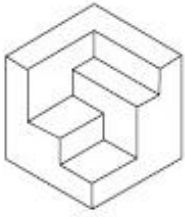


Options :

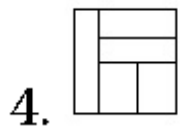
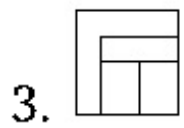
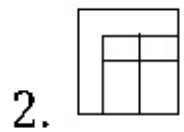
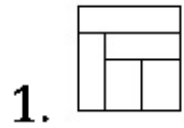


Question Number : 37 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1



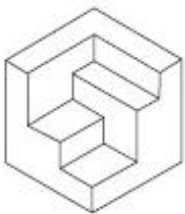
Options :



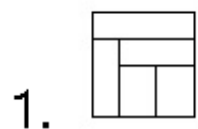
Question Number : 37 Question Type : MCQ Option Shuffling : Yes

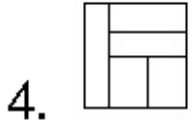
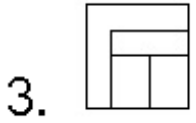
Correct Marks : 4 Wrong Marks : 1

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



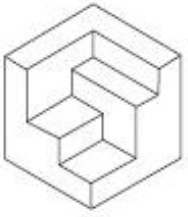
Options :



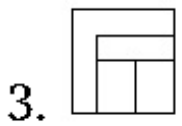
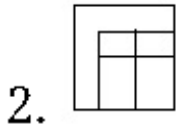
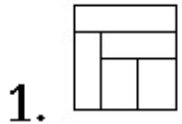


Question Number : 37 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. આનું સાચું ઉપરી દશ્ય જવાબ આકૃતિઓમાંથી શોધો.



Options :

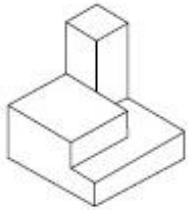


4. 

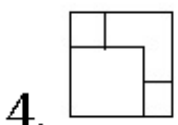
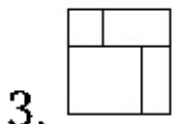
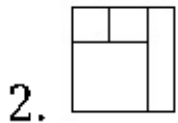
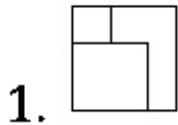
Question Number : 38 Question Type : MCQ Option Shuffling : Yes

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.



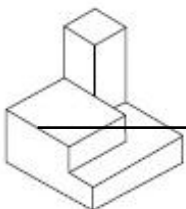
Options :

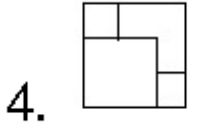
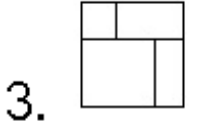
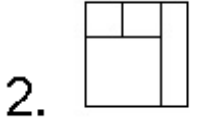


Question Number : 38 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

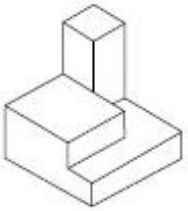
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। इसका सही ऊपरी दृश्य, उत्तर आकृतियों में से पहचानिये।



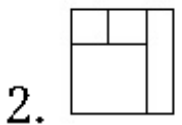
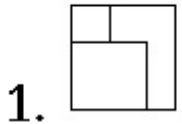


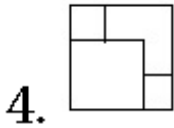
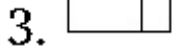
Question Number : 38 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. આનું સાચું ઉપરી દશ્ય જવાબ આકૃતિઓમાંથી શોધો.



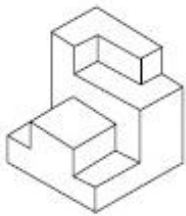
Options :



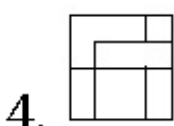
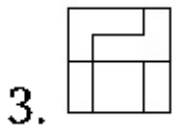
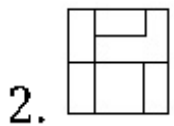
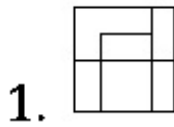


Question Number : 39 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

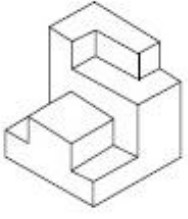
The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



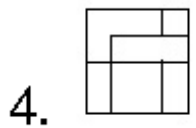
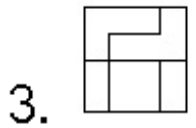
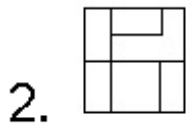
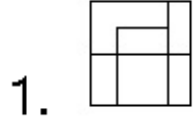
Options :



Question Number : 39 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1



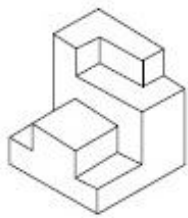
Options :



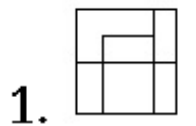
Question Number : 39 Question Type : MCQ Option Shuffling : Yes

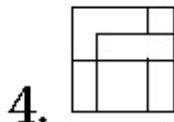
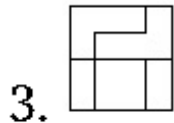
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. આનું સાચું ઉપરી દશ્ય જવાબ આકૃતિઓમાંથી શોધો.



Options :

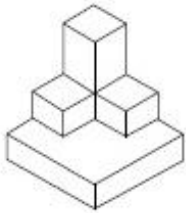




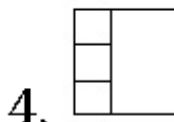
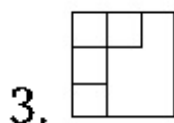
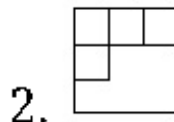
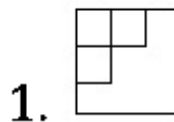
Question Number : 40 Question Type : MCQ Option Shuffling : Yes

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.

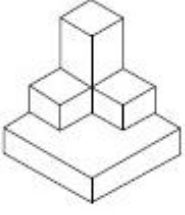


Options :

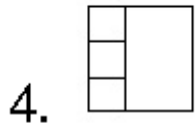
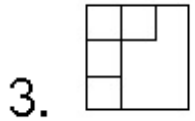
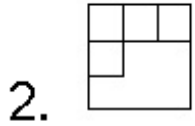
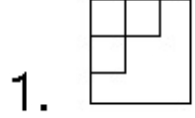


Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ મેં એક વસ્તુ કે એક દૃશ્ય કો દિશ્વાયા ગયા હૈ। ઇસકા સહી ઋપરી દૃશ્ય, ઉત્તર આકૃતિયોં મેં સે પહચાનિયે।



Options :

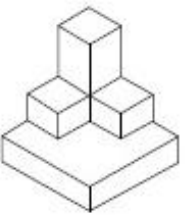


W

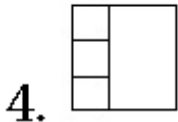
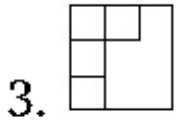
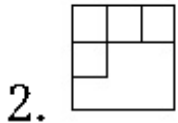
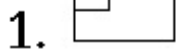
Question Number : 40 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. આનું સાચું ઉપરી દશ્ય જવાબ આકૃતિઓમાંથી શોધો.

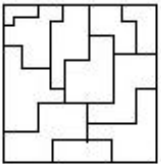


Options :

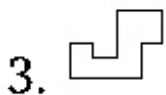
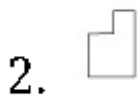


Question Number : 41 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

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



Options :

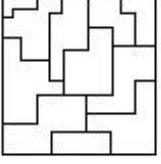


4.

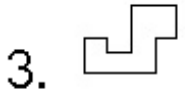
Question Number : 41 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

નીચે દી ગયી ઉત્તર આકૃતિયોં મેં સે એક આકૃતિ માપ ઓર દિશા મેં સમાન રૂપ સે પ્રશ્ન આકૃતિ મેં છુપી હૈ। કૌન સી સહી હૈ, ચુનિયે।



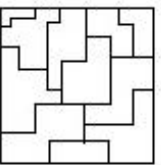
Options :



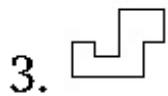
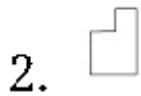
Question Number : 41 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ કદ અને દિશામાં સમાન રૂપે પ્રશ્ન આકૃતિમાં છૂપાયેલ છે. સાચી આકૃતિ શોધો.



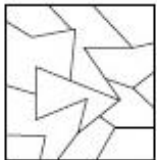
Options :



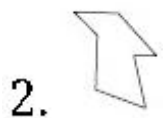
Question Number : 42 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

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



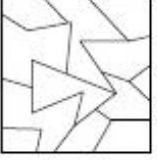
Options :



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

Correct Marks : 4 Wrong Marks : 1

નીચે દી ગયી ઉત્તર આકૃતિયોં મેં સે એક આકૃતિ માપ ઓર દિશા મેં સમાન રૂપ સે પ્રશ્ન આકૃતિ મેં છુપી હૈ। કૌન સી સહી હૈ, ચુનિયે।



Options :



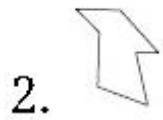
Question Number : 42 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ કદ અને દિશામાં સમાન રૂપે પ્રશ્ન આકૃતિમાં દૂપાયેલ છે. સાચી આકૃતિ શોધો.

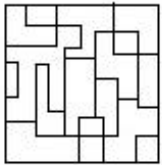


Options :

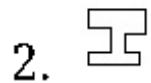
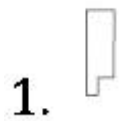


Question Number : 43 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

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



Options :

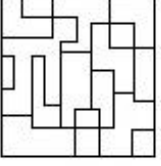


4.

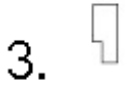
Question Number : 43 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

નીચે દી ગયી ઉત્તર આકૃતિયોં મેં સે એક આકૃતિ માપ ઓર દિશા મેં સમાન રૂપ સે પ્રશ્ન આકૃતિ મેં છુપી હૈ। કૌન સી સહી હૈ, ચુનિયે।



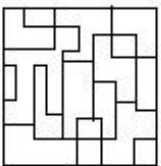
Options :



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

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ કદ અને દિશામાં સમાન રૂપે પ્રશ્ન આકૃતિમાં છૂપાયેલ છે. સાચી આકૃતિ શોધો.



Options :

1.



2.



3.



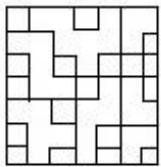
4.



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

Correct Marks : 4 Wrong Marks : 1

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



Options :



1.



2.



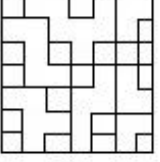
3.



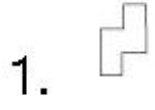
Question Number : 44 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

નીચે દી ગયી ઉત્તર આકૃતિયોં મેં સે એક આકૃતિ માપ ઓર દિશા મેં સમાન રૂપ સે પ્રશ્ન આકૃતિ મેં છુપી હૈ। કૌન સી સહી હૈ, ચુનિએ।



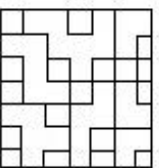
Options :



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

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ કદ અને દિશામાં સમાન રૂપે પ્રશ્ન આકૃતિમાં ધૂપાયેલ છે. સાચી આકૃતિ શોધો.



Options :

1.



2.



3.

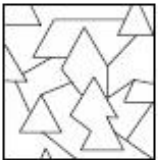


4.



Question Number : 45 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

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



Options :

1.



2.



3.

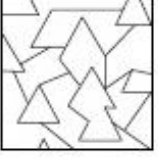


4.

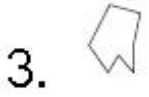
Question Number : 45 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

નીચે દી ગયી ઉત્તર આકૃતિયોં મેં સે એક આકૃતિ માપ ઓર દિશા મેં સમાન રૂપ સે પ્રશ્ન આકૃતિ મેં છુપી હૈ। કૌન સી સહી હૈ, ચુનિયે।



Options :



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

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની એક આકૃતિ કદ અને દિશામાં સમાન રૂપે પ્રશ્ન આકૃતિમાં છૂપાયેલ છે. સાચી આકૃતિ શોધો.



Options :

1.

2.

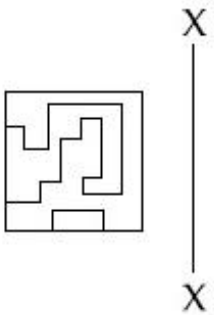
3.

4.

Question Number : 46 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

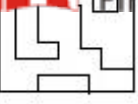
Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?

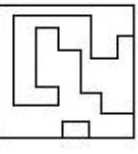


Options :

1.

2.

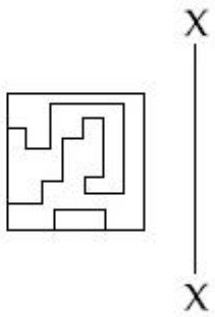
3. 

4. 

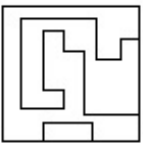
Question Number : 46 Question Type : MCQ Option Shuffling : Yes

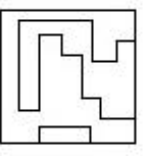
Correct Marks : 4 Wrong Marks : 1

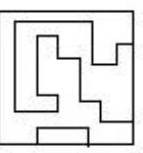
उत्तर आकृतियों में से कौन सी आकृति दी गयी प्रश्न आकृति का X - X से सम्बंधित सही दर्पण प्रतिबिम्ब है?

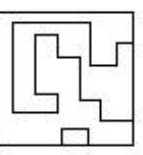


Options :

1. 

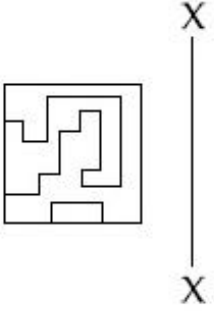
2. 

3. 

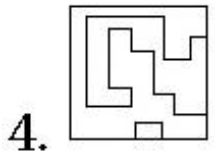
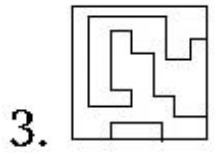
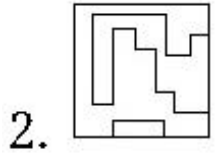
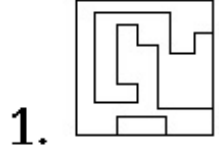
4. 

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ની સાપેક્ષ દર્પણ પ્રતિબિંબ (mirror image) છે ?

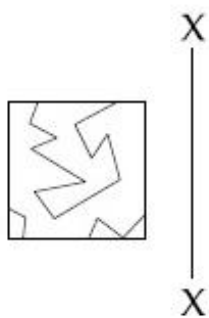


Options :

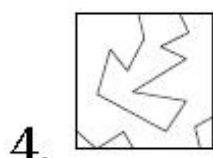
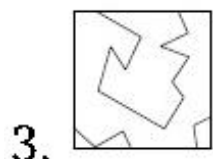
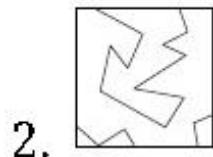
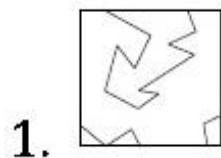


Question Number : 47 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

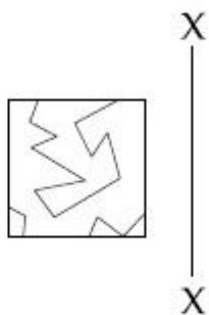


Options :

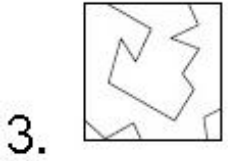
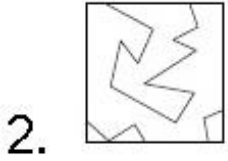


Question Number : 47 Question Type : MCQ Option Shuffling : Yes
 Correct Marks : 4 Wrong Marks : 1

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

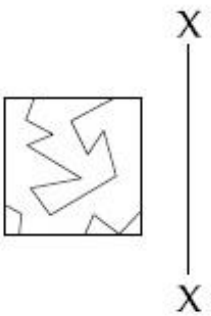


Options :

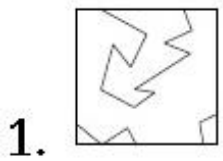


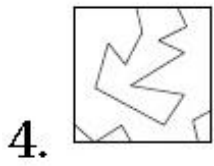
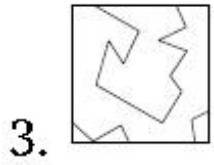
Question Number : 47 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ની સાપેક્ષ દર્પણ પ્રતિબિંબ (mirror image) છે ?



Options :

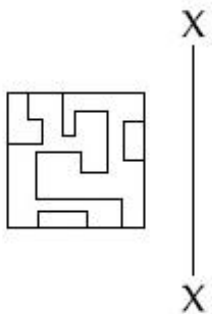




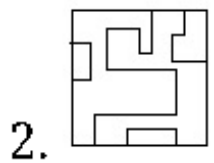
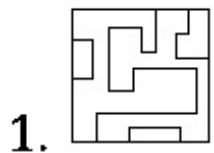
Question Number : 48 Question Type : MCQ Option Shuffling : Yes

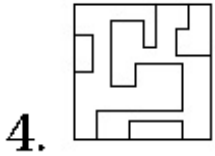
Correct Marks : 4 Wrong Marks : 1

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



Options :

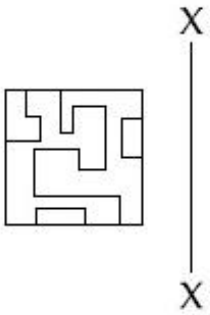




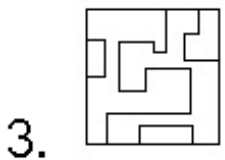
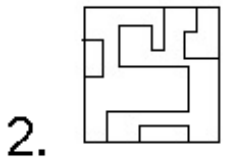
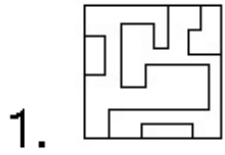
Question Number : 48 Question Type : MCQ Option Shuffling : Yes

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 :



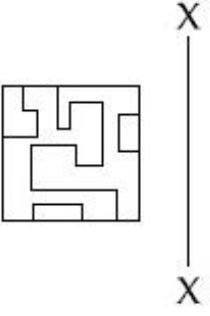
4.



Question Number : 48 Question Type : MCQ Option Shuffling : Yes

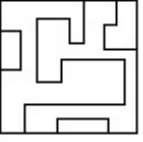
Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ની સાપેક્ષ દર્પણ પ્રતિબિંબ (mirror image) છે ?

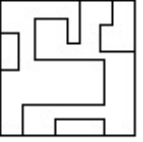


Options :

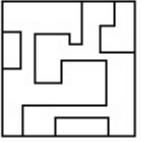
1.



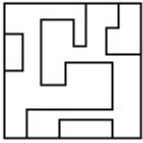
2.



3.

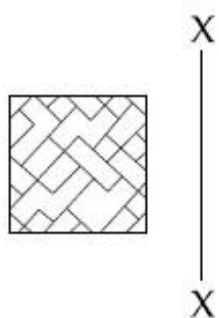


4.

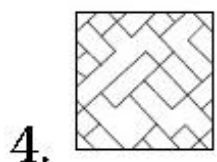
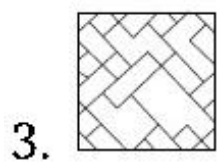
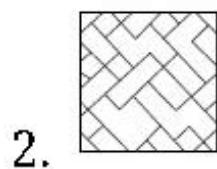
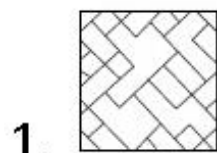


Question Number : 49 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1



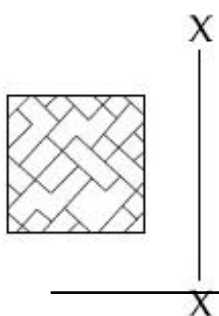
Options :



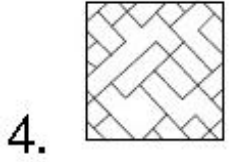
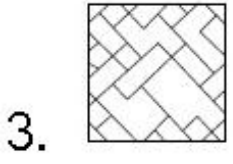
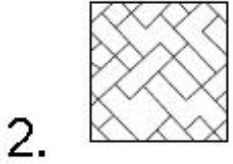
Question Number : 49 Question Type : MCQ Option Shuffling : Yes

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?



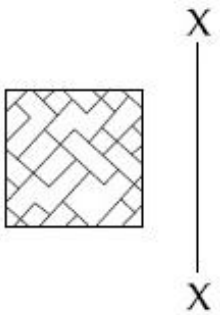
Options :



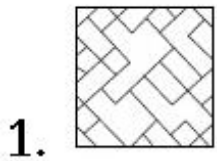
Question Number : 49 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ની સાપેક્ષ દર્પણ પ્રતિબિંબ (mirror image) છે ?



Options :



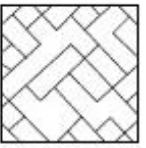
2.



3.



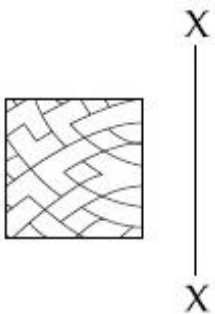
4.



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

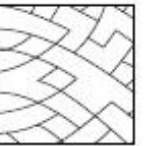
Correct Marks : 4 Wrong Marks : 1

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



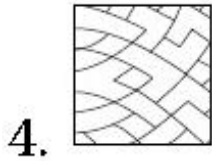
Options :

1.



2.

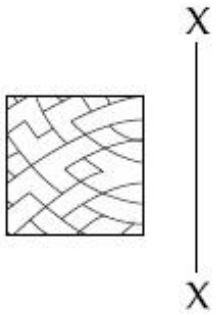




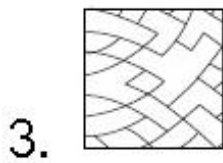
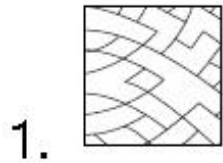
Question Number : 50 Question Type : MCQ Option Shuffling : Yes

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 :



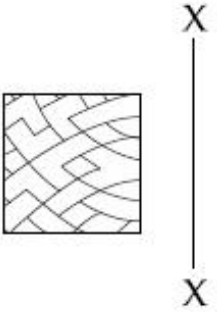
4.



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

Correct Marks : 4 Wrong Marks : 1

જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ની સાપેક્ષ દર્પણ પ્રતિબિંબ (mirror image) છે ?



Options :

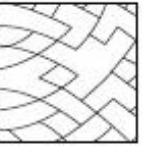
1.



2.



3.



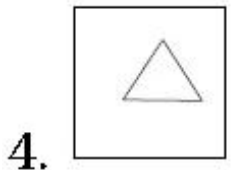
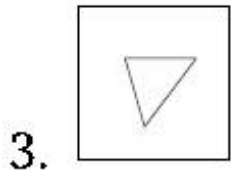
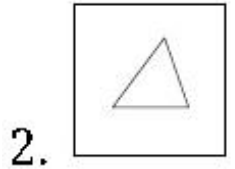
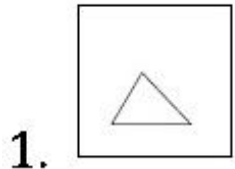
4.



Question Number : 51 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

Options :

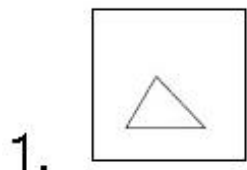


Question Number : 51 Question Type : MCQ Option Shuffling : 1

Correct Marks : 4 Wrong Marks : 1

नीचे दी गयी आकृतियों में से विषम आकृति पहचानिये।

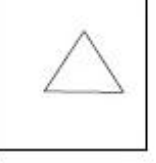
Options :



3.



4.

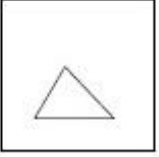


Question Number : 51 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

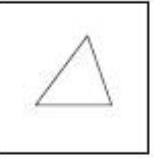
આપેલ પ્રશ્ન આકૃતિઓમાંથી વિષમ આકૃતિ (odd figure) શોધો.

Options :

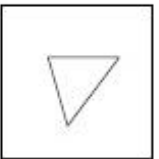
1.



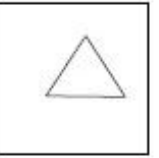
2.



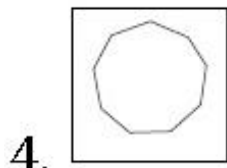
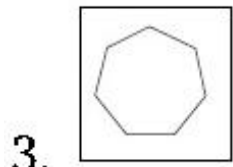
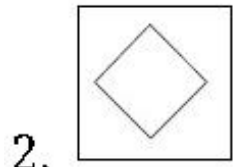
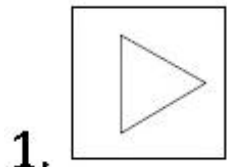
3.



4.



Options :

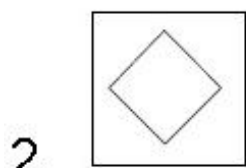
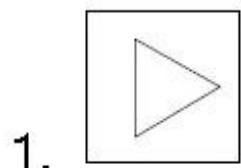


Question Number : 52 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

नीचे दी गयी आकृतियों में से विषम आकृति पहचानिये।

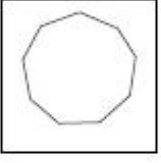
Options :



3.



4.



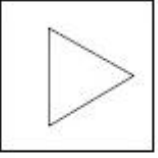
Question Number : 52 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

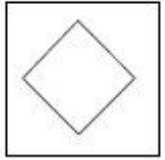
આપેલ પ્રશ્ન આકૃતિઓમાંથી વિષમ આકૃતિ (odd figure) શોધો.

Options :

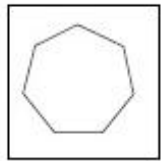
1.



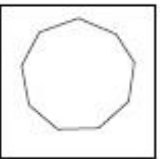
2.



3.



4.

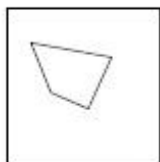


Question Number : 53 Question Type : MCQ Option Shuffling : Yes

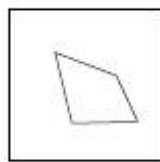
Correct Marks : 4 Wrong Marks : 1

Options :

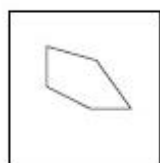
1.



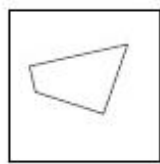
2.



3.



4.



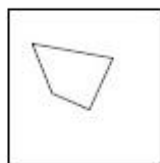
Question Number : 53 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

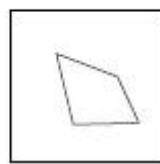
नीचे दी गयी आकृतियों में से विषम आकृति पहचानिये।

Options :

1.



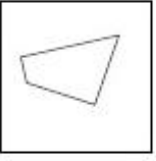
2.



3.



4.

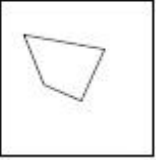


Question Number : 53 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

આપેલ પ્રશ્ન આકૃતિઓમાંથી વિષમ આકૃતિ (odd figure) શોધો.

Options :

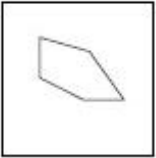
1.



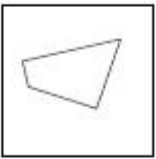
2.



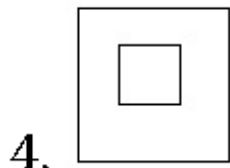
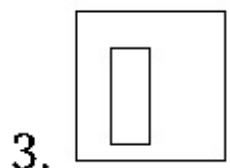
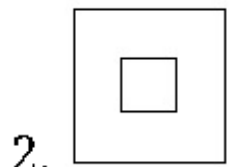
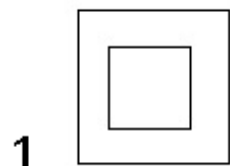
3.



4.



Options :

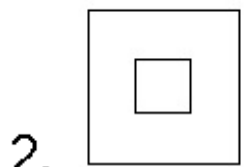
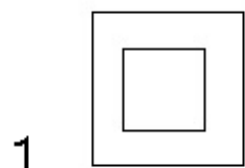


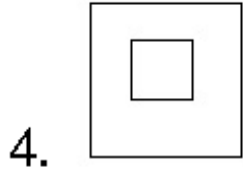
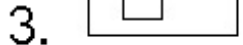
Question Number : 54 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

नीचे दी गयी आकृतियों में से विषम आकृति पहचानिये।

Options :

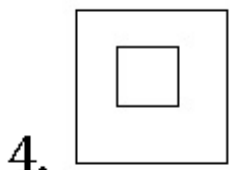
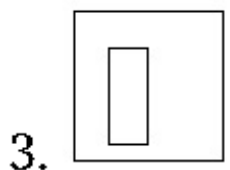
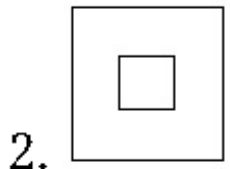
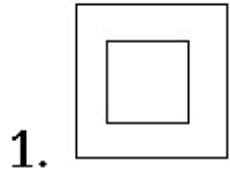




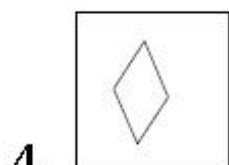
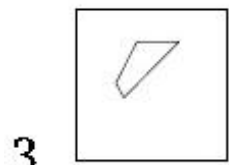
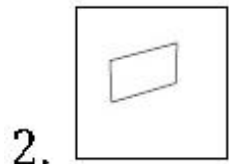
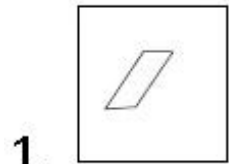
Question Number : 54 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

આપેલ પ્રશ્ન આકૃતિઓમાંથી વિષમ આકૃતિ (odd figure) શોધો.

Options :



Options :

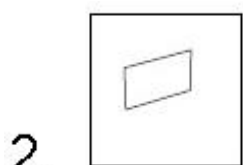
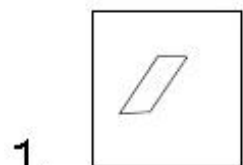


Question Number : 55 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 4 Wrong Marks : 1

नीचे दी गयी आकृतियों में से विषम आकृति पहचानिये।

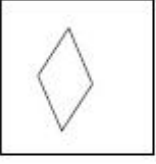
Options :



3.



4.



Question Number : 55 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

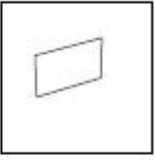
આપેલ પ્રશ્ન આકૃતિઓમાંથી વિષમ આકૃતિ (odd figure) શોધો.

Options :

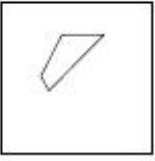
1.



2.

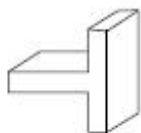


3.



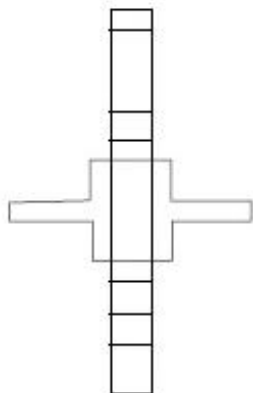
4.



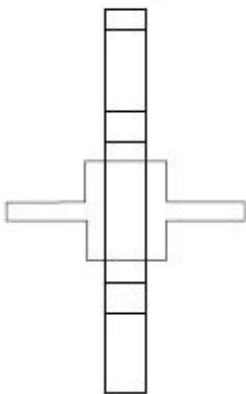


Options :

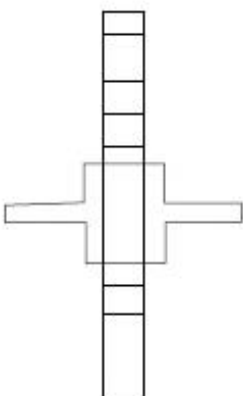
1.



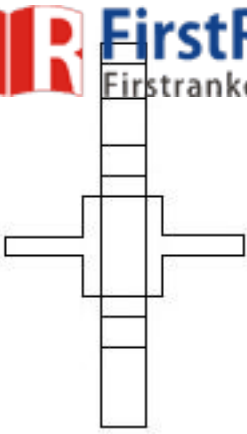
2.



3.



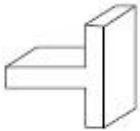
4.



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

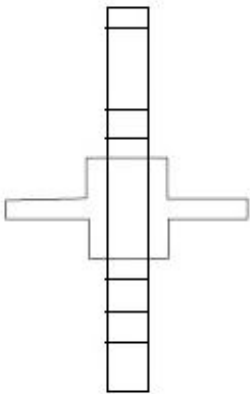
Correct Marks : 4 Wrong Marks : 1

3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। उत्तर दृश्यों में से, प्रश्न वस्तु के खुल जाने का सही दृश्य पहचानिये।

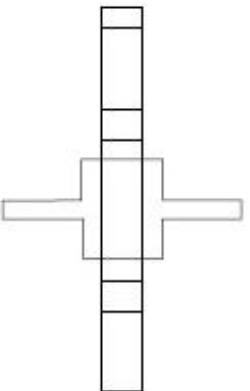


Options :

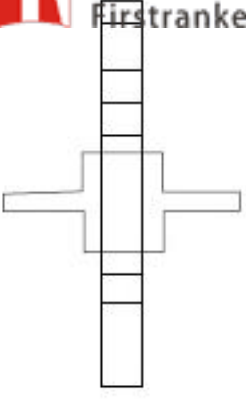
1.



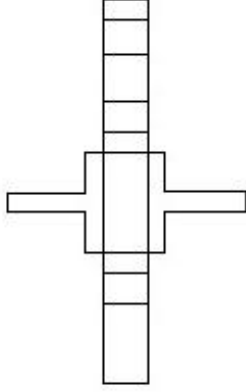
2.



3.

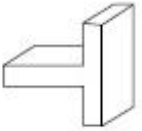


4.



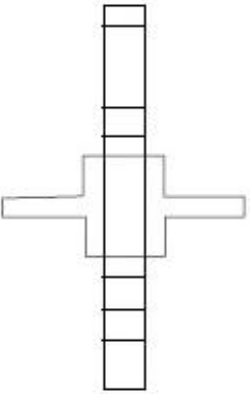
Question Number : 56 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. આ આકૃતિને ખોલી નાખવાથી મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.

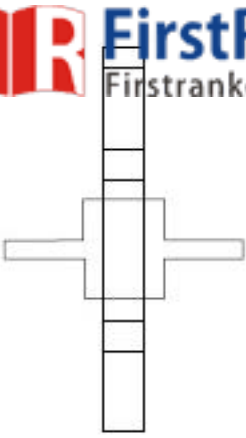


Options :

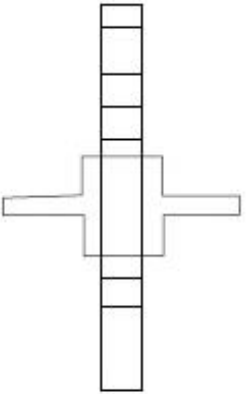
1.



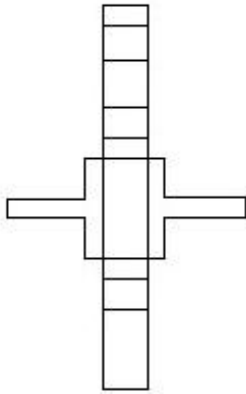
2.



3.



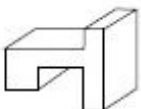
4.



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

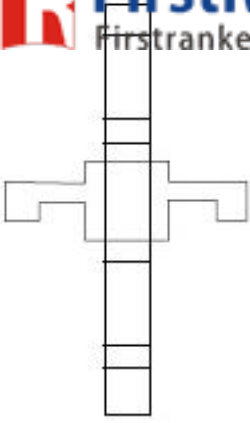
Correct Marks : 4 Wrong Marks : 1

The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.

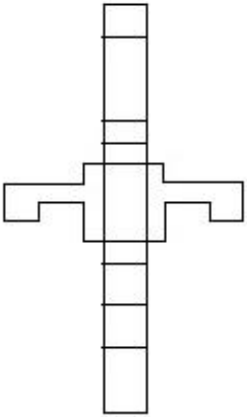


Options :

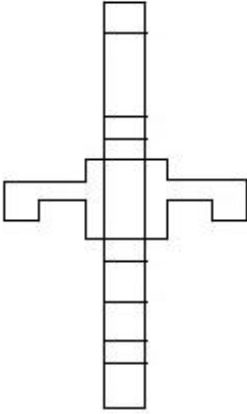
1.



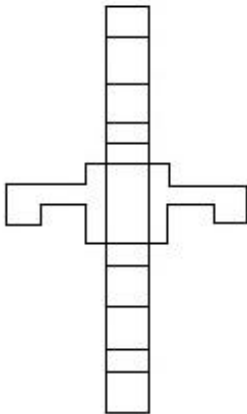
2.



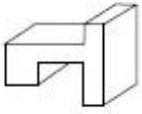
3.



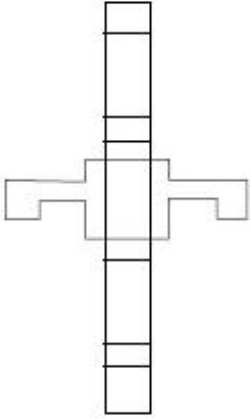
4.



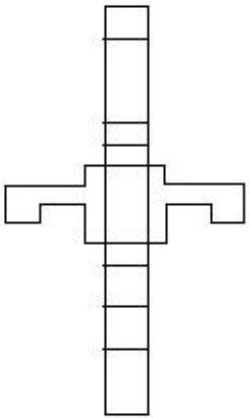
3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। उत्तर दृश्यों में से, प्रश्न वस्तु के खुल जाने का सही दृश्य पहचानिये।



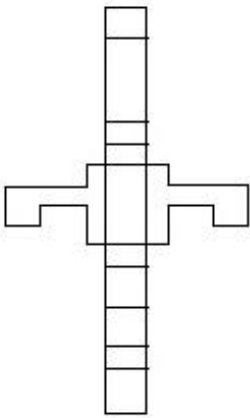
Options :



1.

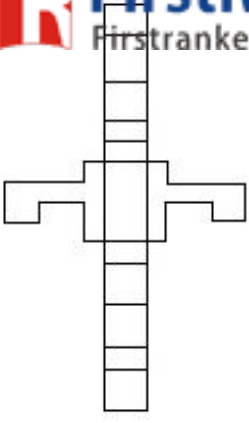


2.



3.

4.



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

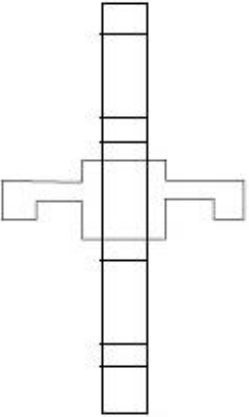
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. આ આકૃતિને ખોલી નાખવાથી મળતું સાચું દશ્ય જવાબ આકૃતિઓમાંથી શોધો.

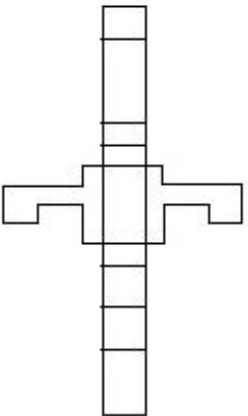


Options :

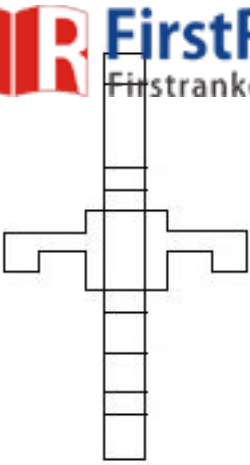
1.



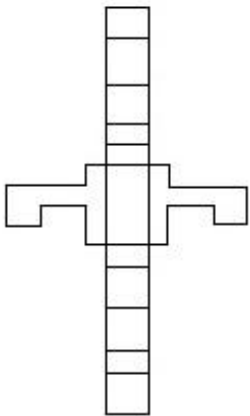
2.



3.



4.



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

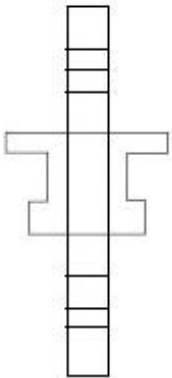
Correct Marks : 4 Wrong Marks : 1

The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.

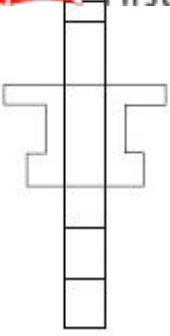


Options :

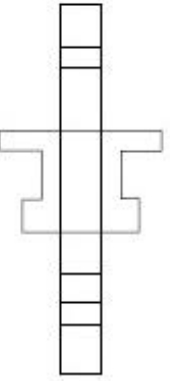
1.



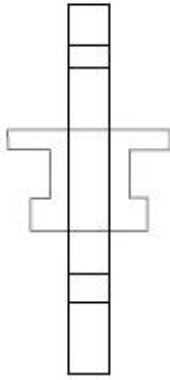
2.



3.



4.



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

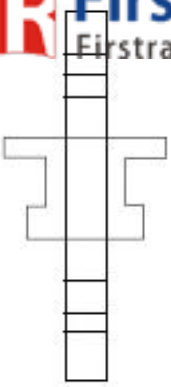
Correct Marks : 4 Wrong Marks : 1

3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। उत्तर दृश्यों में से, प्रश्न वस्तु के खुल जाने का सही दृश्य पहचानिये।

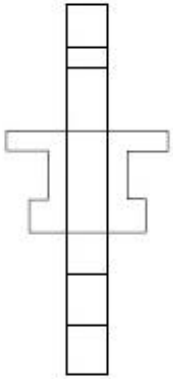


Options :

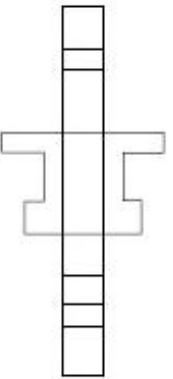
1.



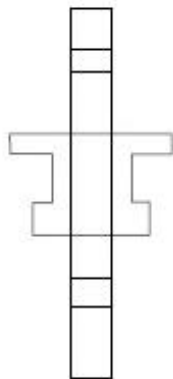
2.



3.



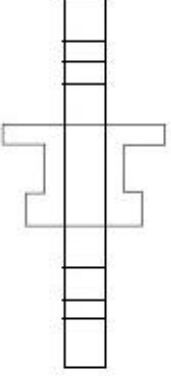
4.



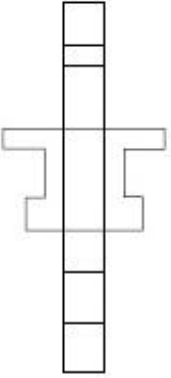


Options :

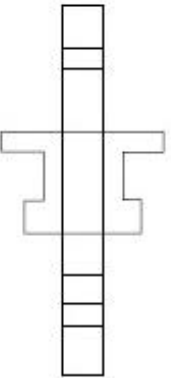
1.



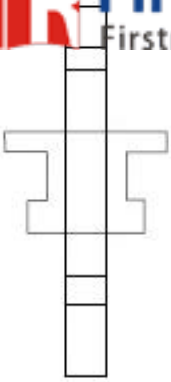
2.



3.



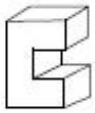
4.



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

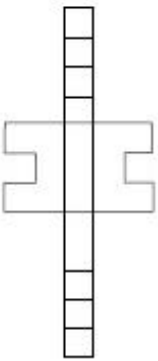
Correct Marks : 4 Wrong Marks : 1

The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.

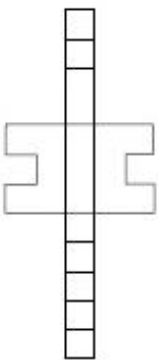


Options :

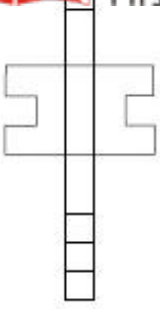
1.



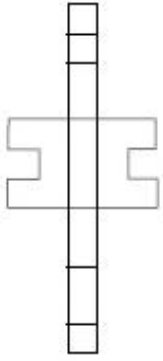
2.



3.



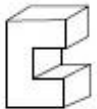
4.



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

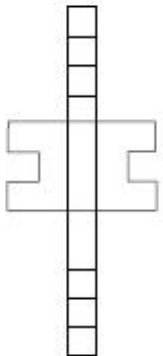
Correct Marks : 4 Wrong Marks : 1

3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। उत्तर दृश्यों में से, प्रश्न वस्तु के खुल जाने का सही दृश्य पहचानिये।

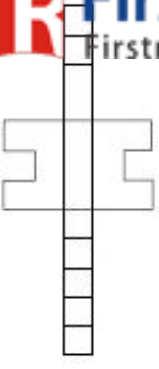


Options :

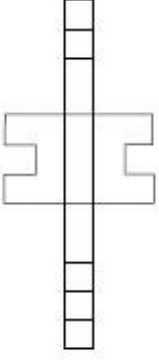
1.



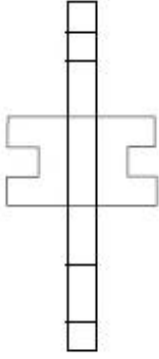
2.



3.



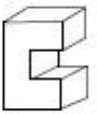
4.



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

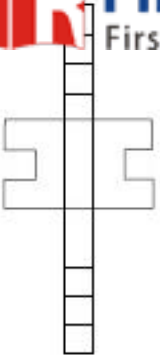
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દૃશ્ય બતાવે છે. આ આકૃતિને ખોલી નાખવાથી મળતું સાચું દૃશ્ય જવાબ આકૃતિઓમાંથી શોધો.

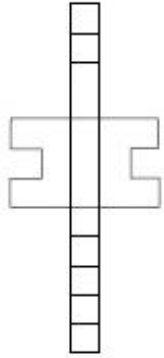


Options :

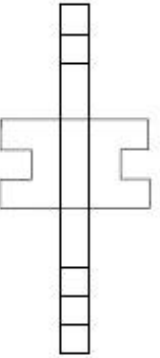
1.



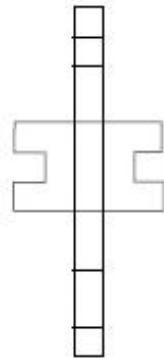
2.



3.



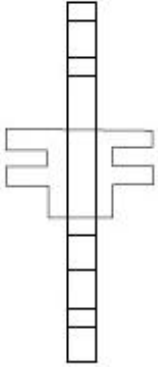
4.



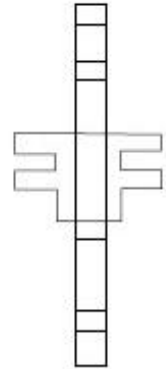


Options :

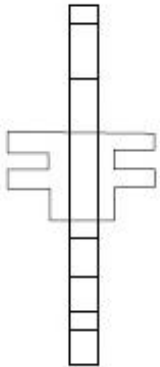
1.



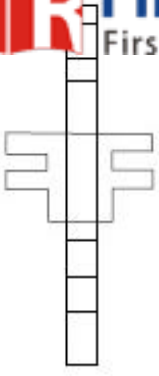
2.



3.



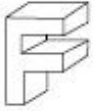
4.



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

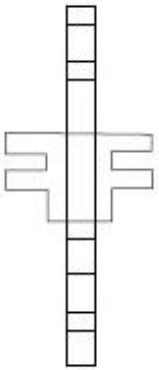
Correct Marks : 4 Wrong Marks : 1

3 - D प्रश्न आकृति में एक वस्तु के एक दृश्य को दिखाया गया है। उत्तर दृश्यों में से, प्रश्न वस्तु के खुल जाने का सही दृश्य पहचानिये।

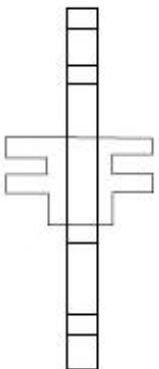


Options :

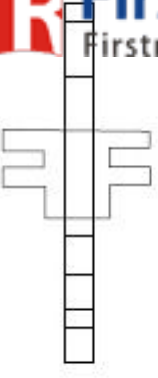
1.



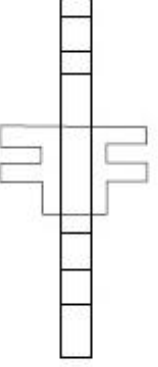
2.



3.

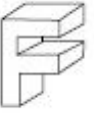


4.



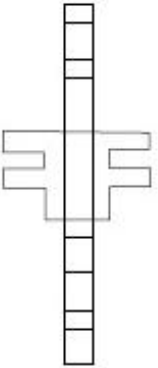
Question Number : 60 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

3 - D પ્રશ્ન આકૃતિ એક વસ્તુનું દશ્ય બતાવે છે. આ આકૃતિને ખોલી નાખવાથી મળતું સાચું દશ્ય જવાબ આકૃતિઓમાંથી શોધો.

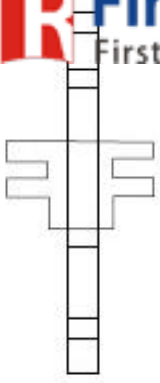


Options :

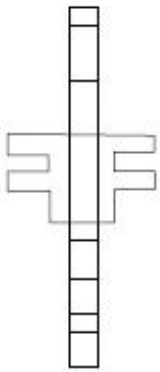
1.



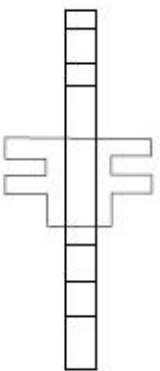
2.



3.



4.



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

Correct Marks : 4 Wrong Marks : 1

The Louvre in Paris is which one of the following ?

Options :

1. A Dance Hall

2. A Banquet Hall

4. A Residence

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

Correct Marks : 4 Wrong Marks : 1

પેરિસ મેં સ્થિત લૂવર નિમ્નલિખિત મેં સે કૌન સા એક
હે?

Options :

1. એક નૃત્ય હૉલ

2. એક બેંક્વેટ હૉલ

3. એક સંગ્રહાલય

4. એક નિવાસ

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

Correct Marks : 4 Wrong Marks : 1

પેરિસમાં આવેલું લુવર નીચેનામાંથી શું છે?

Options :

1. એક નૃત્ય હોલ

2. એક બેંક્વેટ હોલ (Banquet Hall)

3. એક સંગ્રહાલય (Museum)

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

Correct Marks : 4 Wrong Marks : 1

In the Northern Hemisphere the summer sun sets in which one of the following directions ?

Options :

1. North East
2. North West
3. South East
4. South West

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

Correct Marks : 4 Wrong Marks : 1

उत्तरी गोलार्ध में गर्मियों में सूर्य निम्न दिशाओं में से किसमें डूबता है ?

Options :

1. उत्तर पूर्व
2. उत्तर पश्चिम
3. दक्षिण पूर्व
4. दक्षिण पश्चिम

ઉત્તરી ગોલાર્ધમાં ઉનાળનો સૂર્ય નીચેનામાંથી કઈ દિશામાં
આથમે છે?

Options :

1. ઉત્તર પૂર્વ
2. ઉત્તર પશ્ચિમ
3. દક્ષિણ પૂર્વ
4. દક્ષિણ પશ્ચિમ

Question Number : 63 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

In which one of the following States is the
Konark Sun Temple ?

Options :

1. Karnataka
2. Andhra Pradesh
3. Odisha
4. Haryana

Question Number : 63 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से कौन से राज्य में कोणार्क सूर्य मंदिर
है?

Options :

2. આંધ્ર પ્રદેશ

3. ઓડિશા

4. હરિયાણા

Question Number : 63 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

કોનાર્ક સૂર્ય મંદિર નીચેનામાંના કયા રાજ્યમાં આવેલું છે ?

Options :

1. કર્ણાટક

2. આંધ્ર પ્રદેશ

3. ઓડિશા

4. હરિયાણા

Question Number : 64 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

What is the thickness of a half brick thick wall ?

Options :

1. 9"

3. 4.5"

4. 8"

Question Number : 64 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

एक आधा ईंट मोटी दीवार की मोटाई कितनी होती है ?

Options :

1. 9"

2. 6"

3. 4.5"

4. 8"

Question Number : 64 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

અડધી ઈંટ બડી દિવાલની બડાઈ શું છે ?

Options :

1. 9"

2. 6"

4. 8"

Question Number : 65 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

In which one of the following situations are trusses normally used in buildings ?

Options :

1. High Rise Buildings
2. Large Span Buildings
3. Under Water Buildings
4. Buildings in Deserts

Question Number : 65 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सी स्थितियों में trusses सामान्य रूप से इमारतों में उपयोग की जाती हैं?

Options :

1. उच्च वृद्धि इमारतों में
2. बड़े Span के भवनों में
3. अंडर वाटर बिल्डिंग में

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

Correct Marks : 4 Wrong Marks : 1

સામાન્ય રીતે ઈમારતોમાં ટ્રસીસ (trusses) નો ઉપયોગ નીચેનામાંની કઈ પરિસ્થિતિઓમાં કરવામાં આવે છે?

Options :

1. ઊંચી ઈમારતો (High Rise Buildings)
2. મોટી વિસ્તરેલી ઈમારતો (Large span buildings)
3. પાણી નીચેની ઈમારતો (Under water buildings)
4. રણ પ્રદેશની ઈમારતો (Buildings in deserts)

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

Correct Marks : 4 Wrong Marks : 1

In which one of the following countries is Piazza San Marco located ?

Options :

1. Germany
2. France
3. England

Question Number : 66 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

નિમ્ન મેં સે કૌન સા દેશ મેં પિયાઝા સૈન માર્કો સ્થિત
હૈ?

Options :

1. જર્મની
2. ફ્રાંસ
3. ઇંગ્લેંડ
4. ઇટલી

Question Number : 66 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

પિયાઝા સાન માર્કો નીચેનામાંના કયા દેશમાં આવેલું છે?

Options :

1. જર્મની
2. ફ્રાંસ
3. ઇંગ્લેંડ
4. ઇટલી

In which one of the following countries are
Zen gardens popular ?

Options :

1. Thailand
2. Japan
3. China
4. Pakistan

Question Number : 67 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

निम्नलिखित देशों में से किस देश में जेन (Zen) उद्यान
लोकप्रिय है?

Options :

1. थाईलैंड
2. जापान
3. चीन
4. पाकिस्तान

Question Number : 67 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

ઝેન ઉદ્યાનો (Zen gardens) નીચેનામાંના કયા દેશમાં
પ્રખ્યાત છે?

Options :

2. जपान

3. चीन

4. पाकिस्तान

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

Correct Marks : 4 Wrong Marks : 1

Chhatrapati Shivaji Terminus is located in which one of the following cities ?

Options :

1. Mumbai

2. Kolkata

3. Delhi

4. Bangalore

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

Correct Marks : 4 Wrong Marks : 1

छत्रपति शिवाजी टर्मिनस निम्नलिखित में से किस शहर में स्थित है ?

Options :

1. मुंबई

3. दिल्ली

4. बंगलोर

Question Number : 68 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

छत्रपति शिवाजी टर्मिनस नीचेનામાંના કયા શહેરમાં આવેલું છે?

Options :

1. મુંબઈ

2. કોલકતા

3. દિલ્લી

4. બેંગલોર

Question Number : 69 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

Which one of the following colors absorbs all light falling on it ?

Options :

1. Blue

2. Black

4. Pink

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

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा रंग उस पर पड़ने वाले सभी प्रकाश को अवशोषित करता है?

Options :

1. नीला

2. काला

3. हरा

4. गुलाबी

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

Correct Marks : 4 Wrong Marks : 1

નીચેનામાંનો કયો રંગ તેના પર પડતા બધા જ પ્રકાશને શોષી લે છે?

Options :

1. વાદળી

2. કાળો

3. લીલો

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

Correct Marks : 4 Wrong Marks : 1

Which one of the following colors is perceived as cowardice ?

Options :

1. Pink
2. Purple
3. Orange
4. Yellow

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

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा रंग कायरता माना जाता है ?

Options :

1. गुलाबी
2. बैंगनी
3. संतरी
4. पीला

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

Correct Marks : 4 Wrong Marks : 1

Options :

1. ગુલાબી

2. જાંબુડીયો

3. નારંગી

4. પીળો

Question Number : 71 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

Which one of the following textures describes the surface of a mirror ?

Options :

1. Grainy

2. Wrinkled

3. Shiny

4. Coarse

Question Number : 71 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा बनावट दर्पण की सतह का वर्णन करता है?

Options :

2. ઘુરિઓં વાલા

3. ચમકદાર

4. ખુરદરા

Question Number : 71 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

નીચેના ટેક્સચરો (textures) માંથી કયુ ટેક્સચર દર્પણની
સપાટીનું વર્ણન કરે છે ?

Options :

1. દાણેદાર

2. કચલી યુક્ત

3. ચમકદાર

4. ખરબચડું

Question Number : 72 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

What is the purpose of louvers in
buildings ?

Options :

2. To stop wind from entering
3. As sun breakers
4. To hide something

Question Number : 72 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

इमारतों में लूवर्स का उद्देश्य क्या है?

Options :

1. इमारतों को सहारा देना
2. हवा का प्रवेश रोकना
3. धूप रोकना
4. कुछ छुपाना

Question Number : 72 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

ઈમારતોમાં લૂવર્સ (louvers) નો હેતુ શું છે?

Options :

1. ઈમારતોને ટેકો આપવા

3. तडको रोकवा

4. कंठक छुपावा माटे

Question Number : 73 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

Which one of the following floorings is ideal for indoor badminton courts ?

Options :

1. Granite

2. Brick

3. Marble

4. Wood

Question Number : 73 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा फर्श इनडोर बैडमिंटन कोर्ट के लिए आदर्श है ?

Options :

1. ग्रेनाइट

2. ईट

4. લકડી

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

Correct Marks : 4 Wrong Marks : 1

મકાનની અંદર આવેલા બેડમિંટન કોર્ટ માટે નીચેનામાંથી
કયો ભોંયતળિયા (floorings) માટે આદર્શ છે ?

Options :

1. ગ્રેનાઈટ

2. ઈંટ

3. આરસપહાણ (Marble)

4. લાકડું

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

Correct Marks : 4 Wrong Marks : 1

Which one of the following architects
designed the Madhya Pradesh Assembly
Building ?

Options :

1. Raj Rewal

2. Charles Correa

3. A.P. Kanvinde

Question Number : 74 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

निम्न में से किस एक वास्तुकार ने मध्य प्रदेश विधानसभा
भवन का डिजाइन तैयार किया है?

Options :

1. राज रेवाल
2. चार्ल्स कोरिया
3. ए.पी. कांविंद
4. बी.वी. दोशी

Question Number : 74 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

મધ્ય પ્રદેશ વિધાનસભા ભવનની રચના નીચેનામાંથી કયા
સ્થપતિ (વાસ્તુકાર) એ કરી છે?

Options :

1. રાજ રેવાલ
2. ચાર્લ્સ કોરિયા
3. એ.પી. કાંવિંદ

Question Number : 75 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

What is the normal height of a doorway in residences ?

Options :

1. 2.5 meters
2. 1.5 meters
3. 2.1 meters
4. 2.8 meters

Question Number : 75 Question Type : MCQ Option Shuffling : Yes
Correct Marks : 4 Wrong Marks : 1

घरों में द्वार की सामान्य ऊँचाई क्या है ?

Options :

1. 2.5 मीटर
2. 1.5 मीटर
3. 2.1 मीटर
4. 2.8 मीटर

1. 2.5 મીટર

2. 1.5 મીટર

3. 2.1 મીટર

4. 2.8 મીટર

Drawing

Section Id : 40503629
Section Number : 3
Section type : Offline
Mandatory or Optional: Mandatory
Number of Questions: 2
Number of Questions to be attempted: 2
Section Marks: 100

Sub-Section Number 1
Sub-Section Id: 40503640
Question Shuffling Allowed : No

Question Number : 76 Question Type : SUBJECTIVE

Correct Marks : 50

In the space provided for the answer of this question, draw an aesthetic composition appropriate to this space using only cylinders. 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 Type : SUBJECTIVE

Correct Marks : 50

के उत्तर के लिए प्रदान की गई जगह में, केवल सिलिंडरों 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 : 76 Question Type : SUBJECTIVE

Correct Marks : 50

આ પ્રશ્નનાં જવાબ માટે આપેલ જગ્યાને અનુરૂપ, ફક્ત નળાકારોનો ઉપયોગ કરી, એક સુંદર રચના તૈયાર કરો. આ આકારોની સંખ્યા, કદ, ગોઠવણી અને દિશાઓ પર કોઈ મર્યાદા નથી. આ રચનામાં રંગ પૂરો કે જેથી તે જોવામાં રોમાંચક લાગે.

Question Number : 77 Question Type : SUBJECTIVE

Correct Marks : 50

Draw from imagination a gymnast doing exercise.

OR

Draw from imagination a scene of a school playground with children playing.

OR

Draw from memory a grand parents face.

Question Number : 77 Question Type : SUBJECTIVE

Correct Marks : 50

कल्पना से एक जिम्नास्ट को व्यायाम करते हुए चित्रित करें।

अथवा

कल्पना से एक स्कूल के खेल मैदान में बच्चों को खेलते हुए चित्रित करें।

अथवा

स्मृति से एक दादा अथवा दादी का चेहरा चित्रित करें।

Question Number : 77 Question Type : SUBJECTIVE

Correct Marks : 50

અથવા

તમારી કલ્પનાથી, એક સ્કૂલ પ્લેગ્રાઉન્ડનું ચિત્ર બનાવો
જેમાં બાળકો રમતાં હોય.

અથવા

તમારી સ્મરણશક્તિથી દાદા અથવા દાદીના ચહેરાનું ચિત્ર
બનાવો.

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