

Question Paper Name: Paper II EHG 7th April 2019 S2
Subject Name: Paper II EHG
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Paper II

Group Number : 1
Group Id : 416529183
Group Maximum Duration : 0
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Break time: 0
Group Marks: 390

Mathematics

Section Id : 416529343
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 30
Number of Questions to be attempted: 30
Section Marks: 120
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 416529507
Question Shuffling Allowed : Yes

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

Correct Marks : 4 Wrong Marks : 1

The number of elements in the set,

$$A \cap B \cap C$$

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

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

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

is :

Options :

2. 2
3. 4
4. infinitely many

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

Correct Marks : 4 Wrong Marks : 1

समुच्चय $A \cap B \cap C$, जहाँ

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

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

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

में अवयवों की संख्या है :

Options :

1. 1
2. 2
3. 4
4. अनन्त

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

Correct Marks : 4 Wrong Marks : 1

जे

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

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

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

तो गणना $A \cap B \cap C$ मां सभ्योनी संख्या

_____.

Options :

1. 1
2. 2
3. 4
4. अनंत

Let $u = \frac{-1 + i\sqrt{3}}{2}$ and $z = u - u^2 - 2$. Then

the value of $z^4 + 3z^3 + 2z^2 - 11z - 6$ is :

Options :

1. 1
2. -1
3. 2
4. -2

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

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

Options :

1. 1
2. -1
3. 2
4. -2

ધારો કે $u = \frac{-1 + i\sqrt{3}}{2}$ અને $z = u - u^2 - 2$ છે.

તો $z^4 + 3z^3 + 2z^2 - 11z - 6$ નું મૂલ્ય _____ છે.

Options :

1. 1
2. -1

4. -2

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

Correct Marks : 4 Wrong Marks : 1

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

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

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

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

Options :

1. $12x^2 + 47x + 40 = 0$

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

3. $12x^2 - 53x + 56 = 0$

4. $9x^2 + 54x + 80 = 0$

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

Correct Marks : 4 Wrong Marks : 1

माना निकाय

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

का हल (a, b) है। यदि समीकरण $ax^2 + 2bx - (a + b) = 0$ के मूल α तथा β हैं, तो

वह समीकरण, जिसके मूल $\alpha\beta$ तथा $\frac{1}{\alpha} + \frac{1}{\beta}$ हैं,

है :

Options :

1. $12x^2 + 47x + 40 = 0$

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

3.

4. $9x^2 + 54x + 80 = 0$

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

Correct Marks : 4 Wrong Marks : 1

ધારો કે (a, b) એ સંહતિ $[x \ y] \begin{bmatrix} 1 & 3 \\ 5 & 1 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$ નો

ઉકેલ છે જો α અને β એ સમીકરણ

$$ax^2 + 2bx - (a + b) = 0$$
 નાં ખીજ હોય, તો જેનાં

ખીજ $\alpha\beta$ અને $\frac{1}{\alpha} + \frac{1}{\beta}$ હોય તેવું સમીકરણ

_____ છે.

Options :

1. $12x^2 + 47x + 40 = 0$

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

3. $12x^2 - 53x + 56 = 0$

4. $9x^2 + 54x + 80 = 0$

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

1. 2^{19}

2. 2^{20}

3. 2^{21}

4. 2^{22}

Correct Marks : 4 Wrong Marks : 1

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

$a+b+c+d$ बराबर है :

Options :

1. 2^{19}

2. 2^{20}

3. 2^{21}

4. 2^{22}

Correct Marks : 4 Wrong Marks : 1

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

$a+b+c+d = \underline{\hspace{2cm}}$.

Options :

1. 2^{19}

2. 2^{20}

3. 2^{21}

4. 2^{22}

Correct Marks : 4 Wrong Marks : 1

The number of solutions of the equations

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

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

$$-3x + z = 0$$

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

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

Options :

2. 7

3. 1

4. 2

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

Correct Marks : 4 Wrong Marks : 1

समीकरणों

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

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

$$-3x + z = 0$$

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

Options :

1. 3

2. 7

3. 1

4. 2

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

Correct Marks : 4 Wrong Marks : 1

समीकरणों

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

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

$$-3x + z = 0$$

ना, x, y, z अन्तः पूर्णांक होय अने $x^2 + y^2 + z^2 \leq 81$ होय तेवा उकलोनी संख्या _____ छे.

Options :

1. 3

2. 7

3.

4. 2

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $2^{99} - 2^{50}$

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

3. 2^{97}

4. 2^{98}

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $2^{99} - 2^{50}$

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

3. 2^{97}

4. 2^{98}

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

Correct Marks : 4 Wrong Marks : 1

गण $\{1, 2, \dots, 99\}$ ना, ओछामां ओछा 50 संभ्यो धरावता उपगणोनी संभ्या _____ छे.

Options :

1. $2^{99} - 2^{50}$

3. 2^{97}

4. 2^{98}

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

Correct Marks : 4 Wrong Marks : 1

The coefficient of x^5 in the expansion of

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

Options :

1. 405

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 405

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

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

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

$(1-x) \left(\frac{x^3-6}{2x^2} \right)^{10}$ का विस्तारण में x^5 का सहगुणक _____ है.

Options :

1. 405

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

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

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

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

Options :

1. 896

2. 798

3. 756

4. 710

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

Options :

1. 896
2. 798
3. 756
4. 710

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

Correct Marks : 4 Wrong Marks : 1

જેનાં પદોની સંખ્યા અચુગ્મ હોય તેવી એક સમાંતર શ્રેણી નાં પ્રથમ, દ્વિતીય અને મધ્યમ પદો અનુક્રમે -12 , -7 અને 38 હોય, તો આ સમાંતર શ્રેણીનો સરવાળો _____ છે.

Options :

1. 896
2. 798
3. 756
4. 710

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

1. $\frac{75}{1056}$
2. $\frac{58}{528}$
3. $\frac{65}{528}$

4. 1056

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

$$\text{तो } \sum_{r=1}^{10} \frac{1}{T_r} = \underline{\hspace{2cm}}.$$

Options :

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

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

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

4. 1056

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

Correct Marks : 4 Wrong Marks : 1

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

to :

Options :

1. $(2)^{-11/2}$

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

3. $(2)^{-29/6}$

4. $(2)^{-9/2}$

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $(2)^{-11/2}$

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

3. $(2)^{-29/6}$

4. $(2)^{-9/2}$

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $(2)^{-11/2}$

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

3. $(2)^{-29/6}$

4. $(2)^{-9/2}$

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

1. $3x + y = 3$

2. $2x - 4y = -5$

3. $2x + 4y = 7$

4. $3x - y = 0$

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

Correct Marks : 4 Wrong Marks : 1

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

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

का समीकरण है :

Options :

1. $3x + y = 3$

3. $2x + 4y = 7$

4. $3x - y = 0$

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

Correct Marks : 4 Wrong Marks : 1

ધારો કે $f : \mathbb{R} \rightarrow \mathbb{R}$ એ એવું વિકલનીય વિધેય છે કે

જેથી પ્રત્યેક $u, v \in \mathbb{R}$ માટે

$f(u + v) = f(u) + 2v^2 + 4uv$ થાય. જો $f(1) = 3$, તો

વક્ર $y = f(x)$ ને બિન્દુ $\left(\frac{1}{2}, f\left(\frac{1}{2}\right)\right)$ આગળ

અભિલંબનું સમીકરણ _____ છે.

Options :

1. $3x + y = 3$

2. $2x - 4y = -5$

3. $2x + 4y = 7$

4. $3x - y = 0$

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

Correct Marks : 4 Wrong Marks : 1

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

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

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

Options :

1. -1

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

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

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

Correct Marks : 4 Wrong Marks : 1

माना $\lambda \in \mathbb{R}$ तथा

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

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

Options :

1. -1

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

3. 0

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

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

Correct Marks : 4 Wrong Marks : 1

ધારો કે $\lambda \in \mathbb{R}$ અને

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

જ્યાં [t] એ મહત્તમ પૂર્ણાંક વિધેય દર્શાવે છે. $f(x)$ એ $x = -1$ આગળ સતત હોય તો λ _____.

Options :

1. -1

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $3x + 4y + 26 = 0$
2. $3x + 4y + 23 = 0$
3. $3x + 20y + 103 = 0$
4. $3x + 20y + 106 = 0$

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $3x + 4y + 26 = 0$
2. $3x + 4y + 23 = 0$
3. $3x + 20y + 103 = 0$
4. $3x + 20y + 106 = 0$

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

Correct Marks : 4 Wrong Marks : 1

आगणनो स्पर्शक $4x + 3y = 7$ लेय तो ते वळ परना बिंदु $(x_1, -5)$, $x_1 < 0$ आगणनो अभिलंब _____ छे.

Options :

1. $3x + 4y + 26 = 0$
2. $3x + 4y + 23 = 0$
3. $3x + 20y + 103 = 0$
4. $3x + 20y + 106 = 0$

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 840
2. 940
3. 1048
4. 1148

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 840
2. 940
3. 1048
4. 1148

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

Correct Marks : 4 Wrong Marks : 1

ધારો કે એક સમક્ષિતીજ મેદાન પર બે શિરોલંબ થાંભલા AP અને BQ અનુક્રમે બિંદુઓ A અને B આગળ ઉભેલા છે. જો $AP = 16\text{ m}$, $BQ = 22\text{ m}$ અને $AB = 20\text{ m}$ હોય, તો AB પરના બિંદુ R માટે $RP^2 + RQ^2$ ની ન્યૂનતમ કિંમત (મીટર² માં) _____ છે.

Options :

1. 840
2. 940
3. 1048
4. 1148

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

Correct Marks : 4 Wrong Marks : 1

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

(Here C is a constant of integration).

Options :

1. $x + \log_e |e^x - e^{-x}| + C$
2. $-x + \log_e |e^x - e^{-x}| + C$
3. $-x + \log_e |e^x + e^{-x}| + C$
4. $x + \log_e |e^x + e^{-x}| + C$

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

(यहाँ C एक समाकलन अचर है)

Options :

1. $x + \log_e |e^x - e^{-x}| + C$
2. $-x + \log_e |e^x - e^{-x}| + C$
3. $-x + \log_e |e^x + e^{-x}| + C$
4. $x + \log_e |e^x + e^{-x}| + C$

$\int \frac{2}{e^{2x}-1} dx = \underline{\hspace{2cm}}$

(અહીં C એ સંકલનનો અચળાંક છે)

Options :

1. $x + \log_e |e^x - e^{-x}| + C$
2. $-x + \log_e |e^x - e^{-x}| + C$
3. $-x + \log_e |e^x + e^{-x}| + C$
4. $x + \log_e |e^x + e^{-x}| + C$

The integral

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

is equal to :

1. 0

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

समाकल

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

बराबर है :

Options :

1. 0

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

= _____.

Options :

1. 0

2. 2

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

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

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

Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) of the region

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

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

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

3. $\frac{\sqrt{3}}{3} + \frac{1}{6}$

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

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

Correct Marks : 4 Wrong Marks : 1

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

ક્ષેત્રફળ (ચો. એકમમાં) _____ છે.

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 0

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

3. $\log_e(2)$

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 0
2. $\frac{3}{2}$
3. $\log_e(2)$
4. $\log_e(2) - \frac{3}{2}$

Correct Marks : 4 Wrong Marks : 1

ધારો કે $y = y(x)$ એ વિકલ સમીકરણ
 $e^y dy = (1 + x + e^y + xe^y) dx$ અને $y(1) = 0$ નો ઉકેલ
છે. તો $y(-3) = \underline{\hspace{2cm}}$.

Options :

1. 0
2. $\frac{3}{2}$
3. $\log_e(2)$
4. $\log_e(2) - \frac{3}{2}$

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $3\sqrt{3}$

2. 6

3. $2\sqrt{3}$

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. $2\sqrt{2}$

2. $3\sqrt{3}$

3. 6

4. $2\sqrt{3}$

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

Correct Marks : 4 Wrong Marks : 1

જો એક એકમ ત્રિજ્યાવાળા વર્તુળમાં અંતર્ગત એક નિયમિત ષટકોણ ના શિરોબિંદુઓ A_0, A_1, A_2, A_3, A_4 અને A_5 હોય, તો રેખાખંડો A_0A_1, A_0A_2 અને A_0A_3 ની લંબાઈઓનો ગુણકાર _____ છે.

Options :

1. $2\sqrt{2}$

2. $3\sqrt{3}$

3. 6

4. $2\sqrt{3}$

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 29
2. 27
3. 21
4. 17

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 29
2. 27
3. 21
4. 17

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

Correct Marks : 4 Wrong Marks : 1

बिंदु $P(-4, 3)$ मांथी दोरेल अेक रेखा, वर्तुण $x^2 + y^2 = 4$ ने बिंदुओ A अने B मां छेदे छे. तो $PA \cdot PB =$ _____.

Options :

1. 29
2. 27

4. 17

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

अभिलम्ब की प्रवणता (slope) $\frac{2}{3}$ है। यदि यह

अभिलम्ब दीर्घवृत्त के दीर्घ अक्ष को एक बिन्दु A पर काटता है, तो $(PA)^2$ बराबर है :

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

ઉપવલય $\frac{x^2}{16} + \frac{y^2}{36} = 1$ પરના બિંદુ P આગળના

અભિલંબનો ઢાળ $\frac{2}{3}$ છે. જો આ અભિલંબ ઉપવલયનાં પ્રધાન અક્ષને બિંદુ A માં છેદે, તો $(PA)^2 = \underline{\hspace{2cm}}$.

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

जे बिन्दु (4, 2) माथी अतिपरवलय $16x^2 - 25y^2 = 400$ ने स्पर्शरेखा दोरवामां आवे, तो आ स्पर्शरेखा दोरवामां व्यस्तोनी सरवाणी _____ छे.

Options :

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

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

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

4. 5

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

એક સમતલ કોઈક $\alpha \in \mathbb{R}$ માટે બિંદુઓ $(\alpha, 1, 0)$, $(\alpha, 2, 1)$, $(-2, 2, -1)$ અને $(1, 1, 0)$ માંથી પસાર થાય છે. તો બિંદુ $(1, 1, 1)$ નું આ સમતલથી અંતર _____ છે.

Options :

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

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

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

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

Options :

1. 3

2. 4

3. 6

4. 8

Correct Marks : 4 Wrong Marks : 1

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

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

$$\vec{OB} = 10\vec{a} + 2\vec{b} \text{ हैं। माना चतुर्भुज OABC}$$

का क्षेत्रफल (वर्ग इकाइयों में) p है तथा समांतर

चतुर्भुज जिसकी संलग्न भुजाएं \vec{OA} तथा \vec{OC} हैं, काक्षेत्रफल (वर्ग इकाइयों में) q है, तो $\frac{p}{q}$ बराबर है :

Options :

1. 3

2. 4

3. 6

4. 8

Correct Marks : 4 Wrong Marks : 1

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

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

$$\vec{OB} = 10\vec{a} + 2\vec{b} \text{ छे. जे चतुर्भुज OABC नुं}$$

क्षेत्रफल p (थो. अेकभमां) अने जेनी पासपासेनी बाजुओ

 \vec{OA} अने \vec{OC} छीय तेवा समांतरबाजु चतुर्भुजनुंक्षेत्रफल q (थो. अेकभमां) छीय, तो $\frac{p}{q} = \underline{\hspace{2cm}}$.

Options :

1. 3

2. 4

4. 8

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

2. $\frac{15}{7}$

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

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

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

Correct Marks : 4 Wrong Marks : 1

એક થેલા માં 8 સફેદ અને 6 કાળા દડા છે. થેલામાંથી એક દડો યાદચ્છિક રીતે પસંદ કરવામાં આવે છે. તેનો રંગ નોંધવામાં આવે છે અને બાજુમાં મૂકવામાં આવે છે (એટલે કે થેલામાં પરત મૂકવામાં આવતો નથી.) નોંધાયેલા રંગના ત્રણ, વધારાના દડાઓ થેલામાં પાછા મૂકવામાં આવે છે. જો હવે થેલામાંથી બે દડા એક સાથે યાદચ્છિક રીતે પસંદ કરવામાં આવે, તો આ બંને દડા ભિન્ન રંગના હોય તેની સંભાવના _____ છે.

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 0.160
2. 0.052
3. 0.016
4. 0.014

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 0.160
2. 0.052
3. 0.016
4. 0.014

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

Correct Marks : 4 Wrong Marks : 1

નિર્મિત વસ્તુઓના 60% ઉત્પાદન કરે છે. જ્યારે યંત્ર B એ નિર્મિત વસ્તુઓના 40% ઉત્પાદન કરે છે. વધુમાં યંત્ર A દ્વારા ઉત્પાદિત વસ્તુઓમાંથી 2% વસ્તુઓ ખામીયુક્ત છે અને યંત્ર B દ્વારા ઉત્પાદિત વસ્તુઓમાંથી 1% વસ્તુઓ ખામીયુક્ત છે. જો નિર્મિત વસ્તુઓમાંથી એક વસ્તુ યાદચ્છિક રીતે પસંદ કરવામાં આવે, તો તે ખામીયુક્ત હોય તેની સંભાવના _____ છે.

Options :

1. 0.160
2. 0.052
3. 0.016
4. 0.014

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

Correct Marks : 4 Wrong Marks : 1

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

x	0	1	2	3
frequency	2	5	4	1

is :

Options :

1. $\frac{4}{3}$
2. $\frac{13}{18}$
3. $\frac{5}{6}$
4. $\frac{5}{9}$

बारंबारता बंटन

x	0	1	2	3
बारंबारता	2	5	4	1

में आँकड़ों का माध्य के सापेक्ष माध्य विचलन है :

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

નીચેના આવૃત્તિ વિતરણમાં માહિતીના મધ્યકથી સરેરાશ
વિચલન _____ છે.

x	0	1	2	3
આવૃત્તિ	2	5	4	1

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 12
2. 6
3. 4
4. 2

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

1. 12
2. 6
3. 4
4. 2

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

Correct Marks : 4 Wrong Marks : 1

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

तब $\sum_{\theta \in S} \tan^2 3\theta$ _____.

Options :

1. 12
2. 6
3. 4
4. 2

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

Options :

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

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

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

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

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

Options :

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

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

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

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

એક સમક્ષિતિજ સમતલના બિંદુઓ A અને C આગળ બે ટાવરો AB અને CD ઉભેલા છે જ્યાં ટાવર AB ની ઊંચાઈ 10 m છે. જો બિંદુ D ના, બિંદુઓ A અને B થી ઉત્સેધકોણો અનુક્રમે 60° અને 15° હોય, તો નીચેનામાંથી કયું (મીટરમાં) સાચું નથી?

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is a tautology ?

Options :

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

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा कथन एक पुनरुक्ति है ?

Options :

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

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

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

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

Correct Marks : 4 Wrong Marks : 1

નીચેનામાંથી કયું વિધાન નિત્યસત્ય છે?

Options :

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

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

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

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

Aptitude Test

Section Id :	416529344
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	8
Number of Questions to be attempted:	8
Section Marks:	200
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529508
Question Shuffling Allowed :	Yes

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

Question Numbers : (31 to 45)

Question Label : Comprehension

Sub questions

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

Options :

1. Linga
2. Nandi
3. Stupa
4. Cross

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Bihar
2. Odisha
3. Jharkhand
4. Chattisgarh

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Riser
2. Tread
3. Rail
4. Baluster

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Bhopal
2. Allahabad
3. Ellora
4. Bijnor

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Blue
2. Black
3. Yellow
4. Red

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

Correct Marks : 4 Wrong Marks : 1

Who amongst the following designed the Madhya Pradesh Assembly building ?

Options :

1. B.V. Doshi
2. Raj Rewal
3. Charles Correa
4. Prem Nath

Correct Marks : 4 Wrong Marks : 1

Which among the following is the tallest building in Kolkata ?

Options :

1. The 48
2. The 42
3. The 45
4. The 46

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Raj Rewal
2. Charles Correa
3. Le Corbusier
4. B.V. Doshi

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Rough
2. Smooth
3. Corrugated
4. Bumpy

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. London
2. Paris
3. Venice
4. Frankfurt

Correct Marks : 4 Wrong Marks : 1

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

Options :

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Plywood
2. Glass
3. Architectural hardware
4. Tiles

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 300 mm
2. 330 mm
3. 230 mm
4. 400 mm

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Green
2. Purple
3. Orange
4. Black

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Holding the roof
2. Draining rain water
3. Decoration
4. Protecting windows

Question Label : Comprehension

Sub questions

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. लिंग
2. नदी
3. स्तूप
4. क्रॉस

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. बिहार
2. ओडिशा
3. झारखंड
4. छत्तीसगढ़

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. उठने वाला
2. कदम रखना (ट्रेड)

3.

4. छोटा खंभा (बैलूस्टर)

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. भोपाल

2. इलाहाबाद

3. एलोरा

4. बिजनौर

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. नीला

2. काला

3. पीला

4. लाल

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. बी.वी. दोशी

2.

3. चार्ल्स कोरीया

4. प्रेम नाथ

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. 48

2. 42

3. 45

4. 46

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. राज रेवाल

2. चार्ल्स कोरीया

3. ले कोर्बुसीयर

4. बी.वी. दोशी

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

2. चिकना
3. नालीदार
4. ऊबड़

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. लंदन
2. पेरिस
3. वेनिस
4. फ्रैंकफर्ट

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. उत्तर
2. दक्षिण
3. पूर्व
4. पश्चिम

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. ग्लास (काँच)
2. स्थापत्य हार्डवेयर
3. टाइलें

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

Correct Marks : 4 Wrong Marks : 1

एक ईट की सामान्य दीवार की मोटाई कितनी होती है?

Options :

1. 300 मि.मी.
2. 330 मि.मी.
3. 230 मि.मी.
4. 400 मि.मी.

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. हरा
2. बैंगनी
3. नारंगी
4. काला

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

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. बरसाती पानी गिराना
2. सजावट
3. खिड़कियों की सुरक्षा करना

Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (31 to 45)
Question Label : Comprehension

Sub questions

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

Correct Marks : 4 Wrong Marks : 1

सामान्य रीते बौद्ध विहार (मठ) नां चैत्यमां शानुं निर्माण करवामां आवतुं?

Options :

1. लींग
2. नंदी
3. स्तूप
4. क्षेस

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

Correct Marks : 4 Wrong Marks : 1

प्रसिद्ध सूर्य मंदिर नीचेनामांथी कया राज्यमां आवेल छे?

Options :

1. बिहार
2. ओरिस्सा
3. ऊरभंड
4. छत्तीसगढ

નિસ્સરણીનાં સમક્ષિતિજ ભાગને નીચેનામાંથી કેવી રીતે ઓળખવામાં આવે છે?

Options :

1. રાઈઝર

2. ટ્રેડ

3. રેલ

4. કઠેરાની થાંભલી

ખડકમાંથી કોતરેલ ગૂઢાઓ ભારતમાં નીચેનામાંથી કયાં જોવા મળે છે?

Options :

1. ભોપાલ

2. અલ્હાબાદ

3. ઈલોરા

4. ખીજનોર

નીચેનામાંથી કયો રંગ આનંદદાયક (ખુશી આપનાર) માનવામાં આવે છે ?

Options :

1. વાદળી

2. કાળો

3. પીળો

4. લાલ

મધ્યપ્રદેશની વિધાનસભાનાં મકાનને નીચેનામાંથી કોણે ડિઝાઇન કર્યું છે?

Options :

1. બી.વી. દોશી
2. રાજ રીવાલ
3. ચાર્લ્સ કોરીયા
4. પ્રેમનાથ

નીચેનામાંથી કયું મકાન કલકત્તામાં ઊંચામાં ઊંચું છે?

Options :

1. ધી 48
2. ધી 42
3. ધી 45
4. ધી 46

નીચેનામાંથી કયા વાસ્તુકારે (સ્થપતિએ) ચંડીગઢનાં કેપીટોલ કોમ્પ્લેક્સને ડિઝાઇન કર્યું છે?

Options :

1. રાજ રેવાલ
2. ચાર્લ્સ કોરીયા
3. લે કોર્બુસીયર

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

Correct Marks : 4 Wrong Marks : 1

બાળકની ત્વચાનું પોત (texture) નીચેનામાંથી કયા પ્રકારનું હોય છે?

Options :

1. ખરબચડું (Rough)
2. સુંવાળું (Smooth)
3. કરચલીયુક્ત (Corrugated)
4. ઢીમણાયુક્ત (Bumpy)

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

Correct Marks : 4 Wrong Marks : 1

ગોંડાલા કે જે એક હોડી છે તે નીચેનામાંથી કયા શહેરની નહેરોમાં જોવા મળે છે ?

Options :

1. લંડન
2. પેરીસ
3. વેનીસ
4. ફ્રેન્કફર્ટ

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

Correct Marks : 4 Wrong Marks : 1

નીચેનામાંથી કઈ દિશામાંથી સૌથી સારો છાંયો ઓછા પ્રકાશ સાથે મળે છે ?

Options :

1. ઉત્તર
2. દક્ષિણ

3. પશ્ચિમ

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

Correct Marks : 4 Wrong Marks : 1

ભારતીય ઉત્પાદન બજારમાં (Ebc) એ નીચેનામાંથી કઈ વસ્તુનાં ઉત્પાદન માટે જાણીતું છે?

Options :

1. પ્લાસ્ટિક

2. કાચ

3. સ્થાપત્ય હાર્ડવેર

4. લાદીઓ (Tiles)

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

Correct Marks : 4 Wrong Marks : 1

સામાન્ય રીતે એક ઈંટની જાડી દિવાલની જાડાઈ કેટલી હોય છે?

Options :

1. 300 mm

2. 330 mm

3. 230 mm

4. 400 mm

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

Correct Marks : 4 Wrong Marks : 1

લાલ અને પીળા રંગોનાં મિશ્રણથી નીચેનામાંથી કયા રંગનું નિર્માણ થાય છે?

Options :

1. લીલા

3. નારંગી
4. કાળા

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

Correct Marks : 4 Wrong Marks : 1

નાળું (ગટર) કે જે ઢાળ યુક્ત છત સાથે હોય તે નીચેનામાંથી શાને માટે હોય છે?

Options :

1. છતને પકડી રાખવા
2. વરસાદનાં પાણીના નીકાલ માટે
3. સજાવટ માટે
4. બારીઓની સુરક્ષા

Sub-Section Number: 2
Sub-Section Id: 416529509
Question Shuffling Allowed : Yes

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

Question Numbers : (46 to 50)

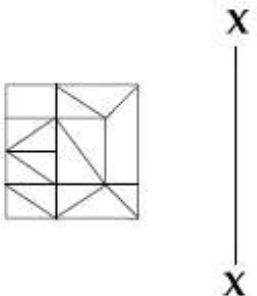
Question Label : Comprehension

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

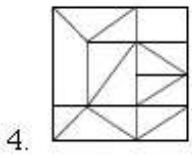
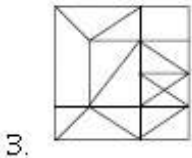
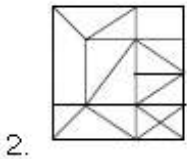
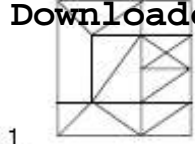
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

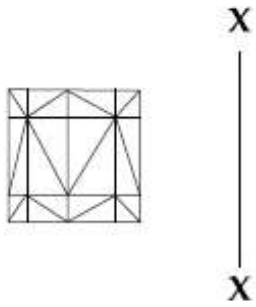


Options :

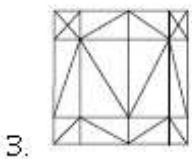
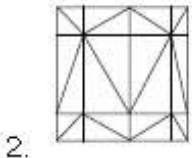
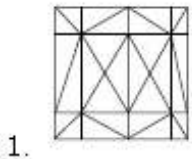


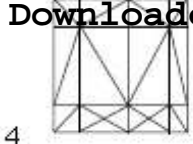
Question Number : 47 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :





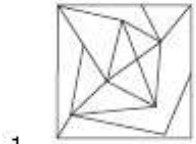
4.

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

Correct Marks : 4 Wrong Marks : 1



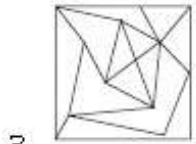
Options :



1.



2.



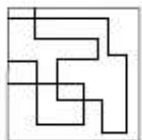
3.



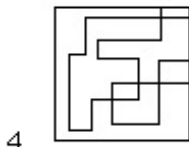
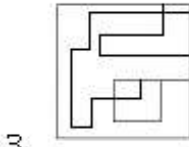
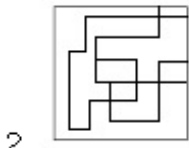
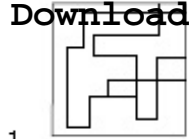
4.

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

Correct Marks : 4 Wrong Marks : 1



Options :



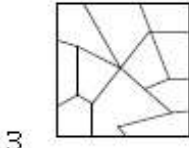
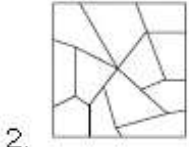
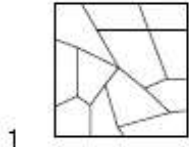
Question Number : 50 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

X
|
X



Options :





4.

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

Question Numbers : (46 to 50)

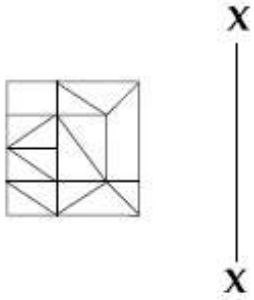
Question Label : Comprehension

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

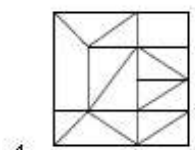
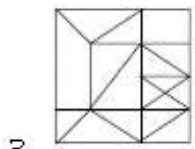
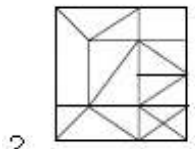
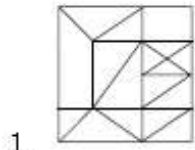
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

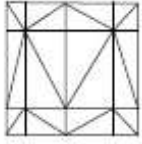


Options :



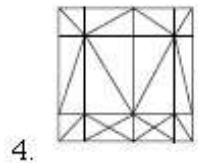
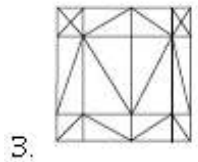
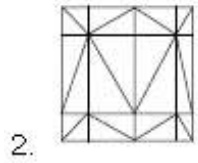
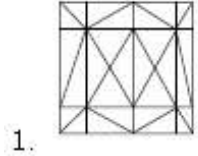
Question Number : 47 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



X
|
X

Options :



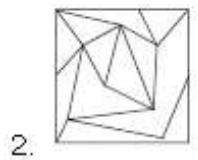
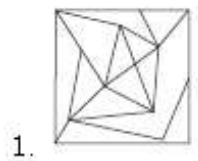
Question Number : 48 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



X
|
X

Options :



3.

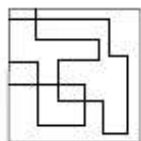


4.



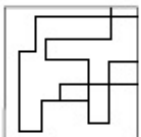
Question Number : 49 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

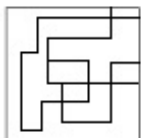


Options :

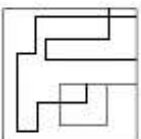
1.



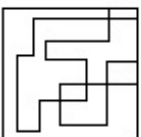
2.



3.



4.



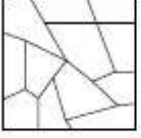
Question Number : 50 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



X

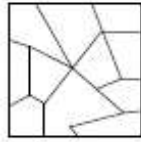
Options :



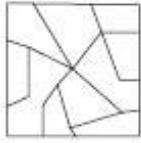
1.



2.



3.



4.

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

Question Numbers : (46 to 50)

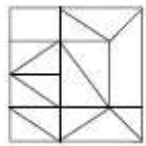
Question Label : Comprehension

સૂચના : જવાબ આકૃતિઓમાંથી કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ને સાપેક્ષ સાચું દર્પણ પ્રતિબિંબ છે?

Sub questions

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

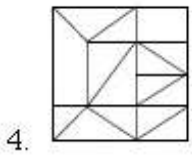
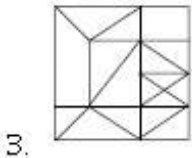
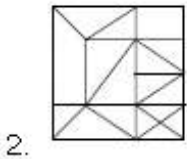
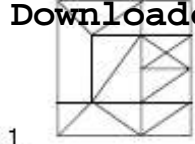
Correct Marks : 4 Wrong Marks : 1



X

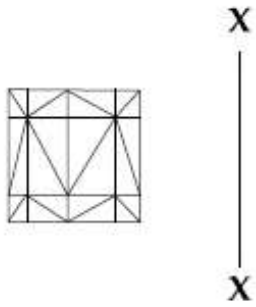
X

Options :

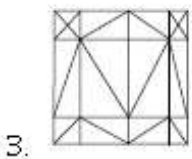
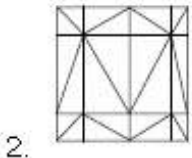
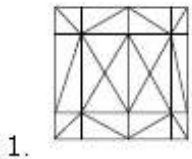


Question Number : 47 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

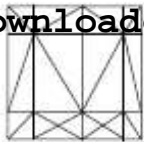
Correct Marks : 4 Wrong Marks : 1



Options :



4.



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

Correct Marks : 4 Wrong Marks : 1

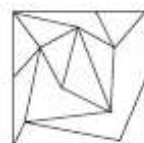


Options :

1.



2.



3.

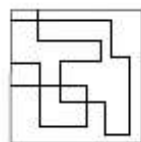


4.

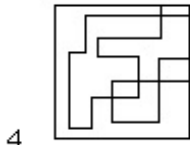
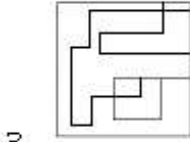
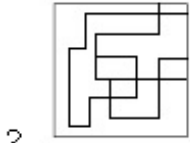
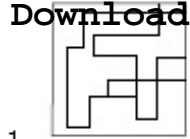


Question Number : 49 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



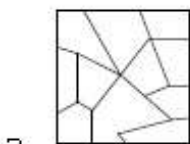
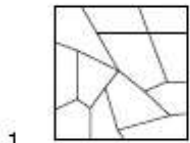
Question Number : 50 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

X



Options :





4.

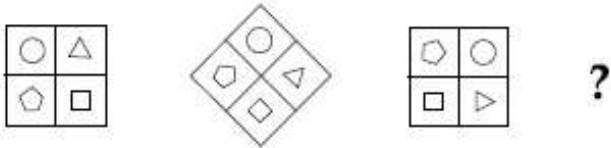
Sub-Section Number: 3
Sub-Section Id: 416529510
Question Shuffling Allowed : Yes

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

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

Sub questions

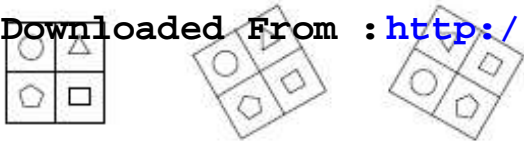
Question Number : 51 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



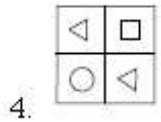
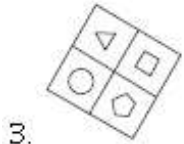
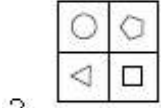
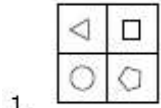
Options :

- 1.
- 2.
- 3.
- 4.

Question Number : 52 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

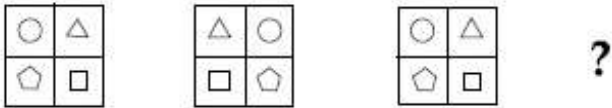


Options :

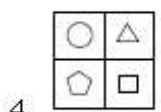
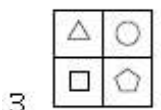
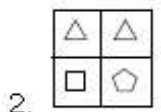
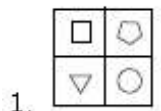


Question Number : 53 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

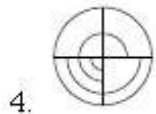
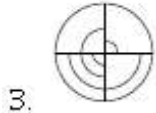
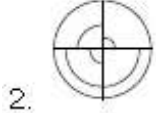
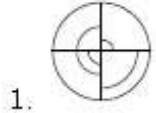


Question Number : 54 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

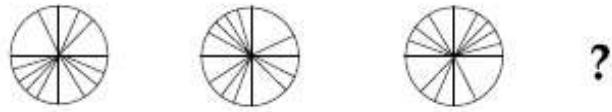


Options :

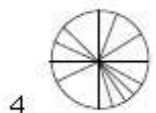
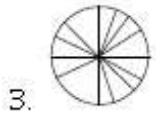
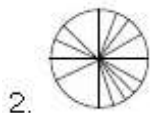
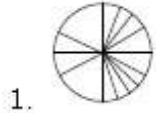


Question Number : 55 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



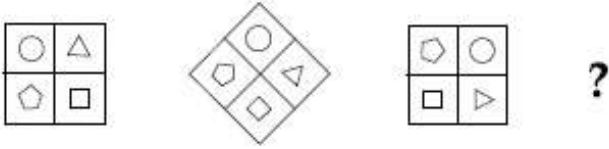
Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (51 to 55)

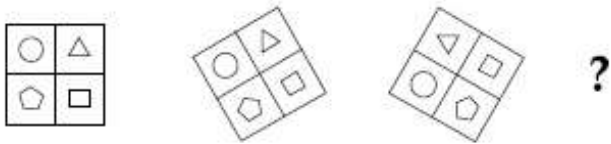
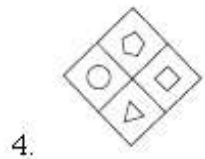
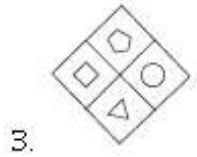
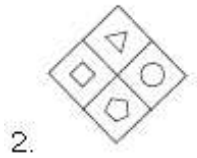
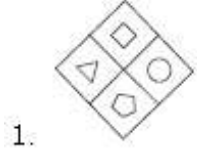
Question Label : Comprehension

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

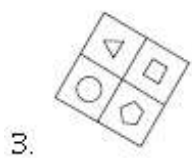
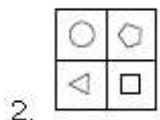
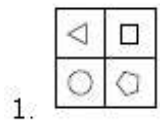
Sub questions

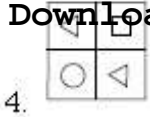


Options :



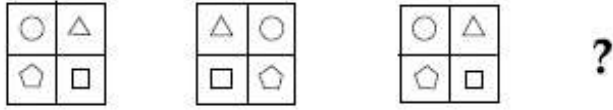
Options :



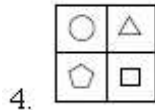
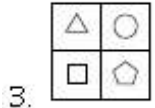
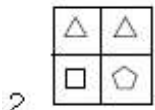
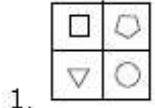


Question Number : 53 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

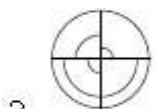
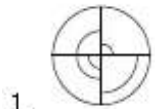


Question Number : 54 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

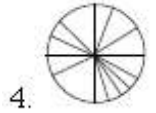
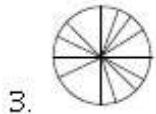
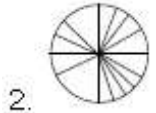
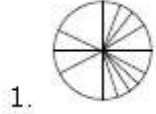


Options :





Options :



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

Question Numbers : (51 to 55)

Question Label : Comprehension

સૂચના : જવાબ આકૃતિઓમાંની કઈ આકૃતિ ત્રણ પ્રથમ આકૃતિની શ્રેણીની પૂર્ણ કરશે?

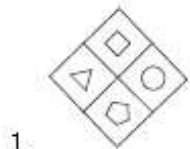
Sub questions

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

Correct Marks : 4 Wrong Marks : 1



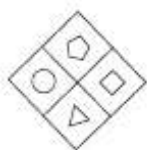
Options :



3.

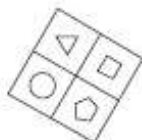
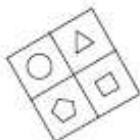
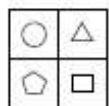


4.



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

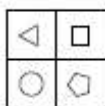
Correct Marks : 4 Wrong Marks : 1



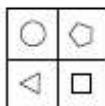
?

Options :

1.



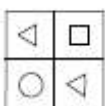
2.



3.

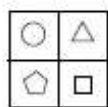
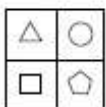
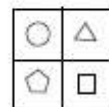


4.



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

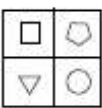
Correct Marks : 4 Wrong Marks : 1



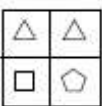
?

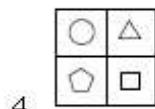
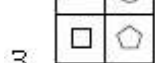
Options :

1.



2.

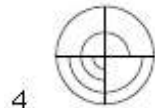
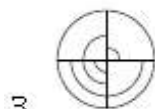
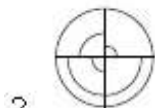
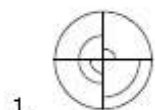




Question Number : 54 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1



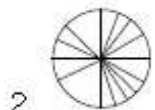
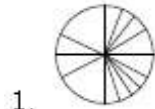
Options :



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



Options :





4.

Sub-Section Number: 4
Sub-Section Id: 416529511
Question Shuffling Allowed : Yes

Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (56 to 60)

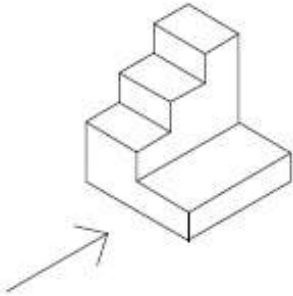
Question Label : Comprehension

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

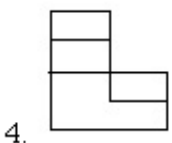
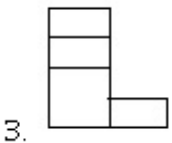
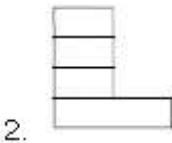
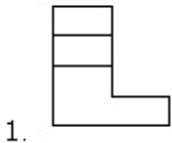
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

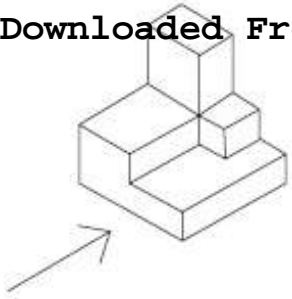


Options :

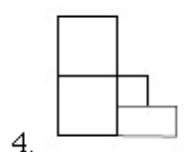
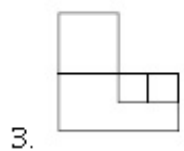
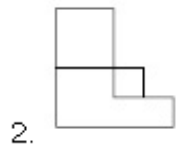
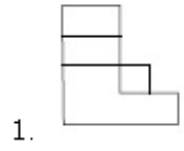


Question Number : 57 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

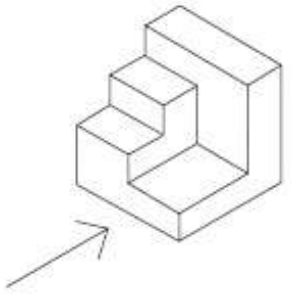
Correct Marks : 4 Wrong Marks : 1



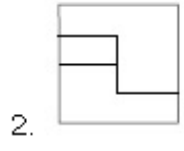
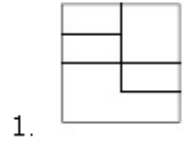
Options :



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



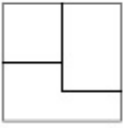
Options :



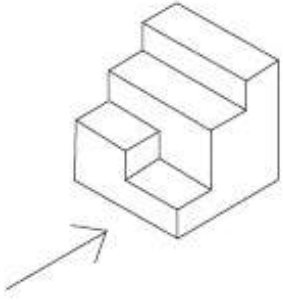
3.



4.



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

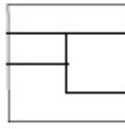


Options :

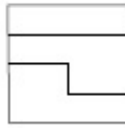
1.



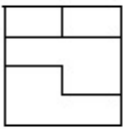
2.



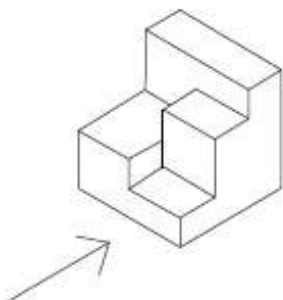
3.



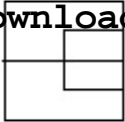
4.



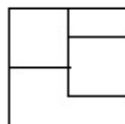
Question Number : 60 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



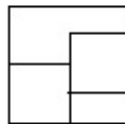
1.



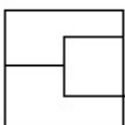
2.



3.



4.



Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (56 to 60)

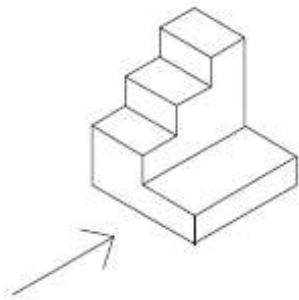
Question Label : Comprehension

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

Sub questions

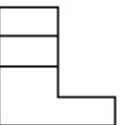
Question Number : 56 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

1.



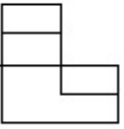
2.



3.

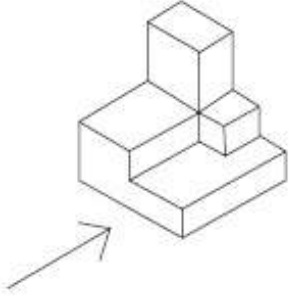


4.



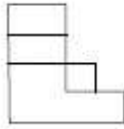
Question Number : 57 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

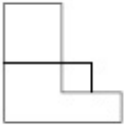


Options :

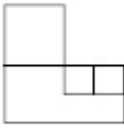
1.



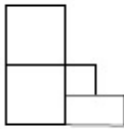
2.



3.

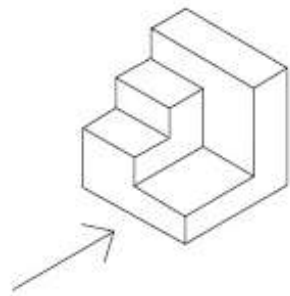


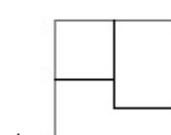
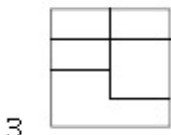
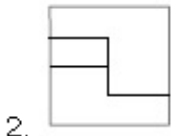
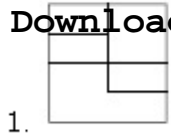
4.



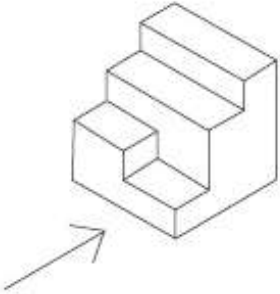
Question Number : 58 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

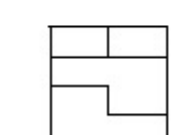
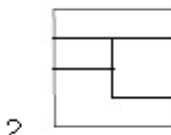


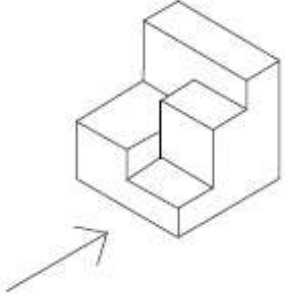


Question Number : 59 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

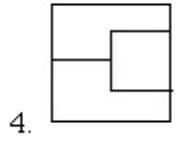
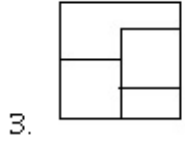
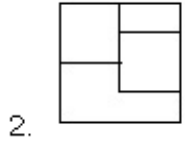
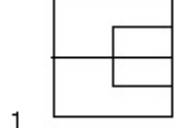


Options :





Options :



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

Question Numbers : (56 to 60)

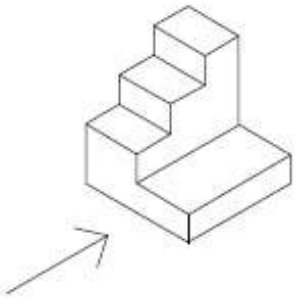
Question Label : Comprehension

સૂચના : 3 - D આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. ત્રીજની દિશામાં જોતાં મળતું સાચું સમુખ દૃશ્ય જવાબ આકૃતિઓમાંથી નક્કી કરો.

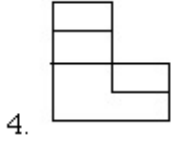
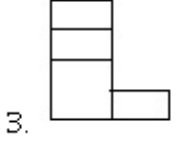
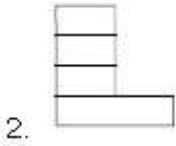
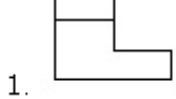
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

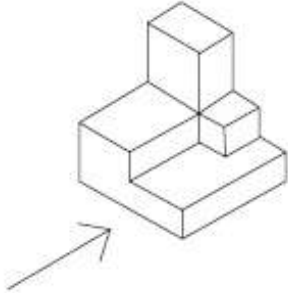


Options :

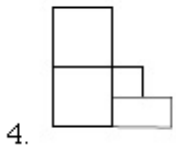
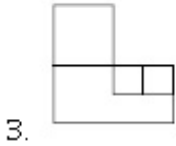
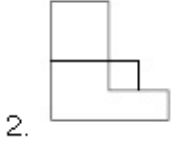
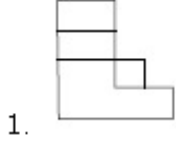


Question Number : 57 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

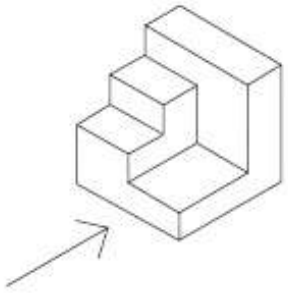
Correct Marks : 4 Wrong Marks : 1



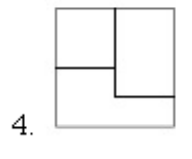
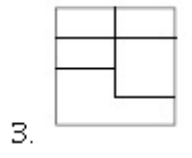
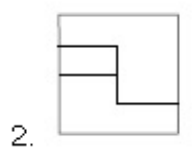
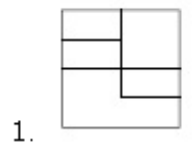
Options :



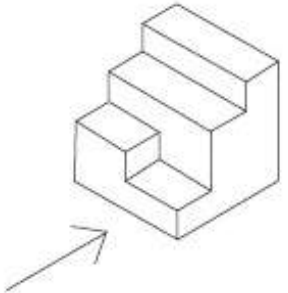
Correct Marks : 4 Wrong Marks : 1



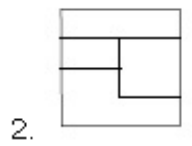
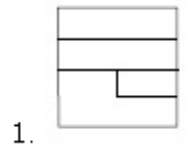
Options :

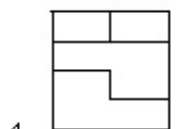
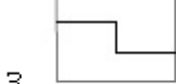


Correct Marks : 4 Wrong Marks : 1



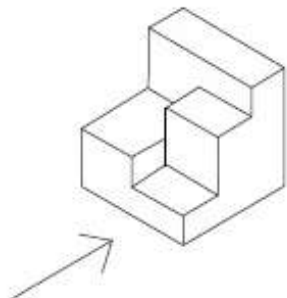
Options :



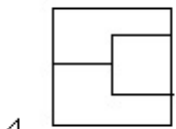
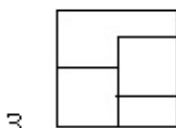
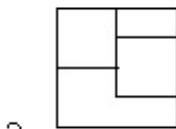
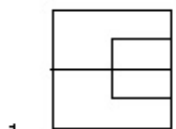


Question Number : 60 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



Sub-Section Number: 5
Sub-Section Id: 416529512
Question Shuffling Allowed : Yes

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

Question Numbers : (61 to 65)

Question Label : Comprehension

Downloaded From : <http://cbseportal.com/>
One of the following figures is hidden in the problem figure in the same size and direction. Select the correct one.

Sub questions

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

Correct Marks : 4 Wrong Marks : 1

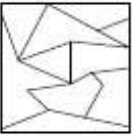


Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.

2.



3.



4.

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

Question Numbers : (61 to 65)

Question Label : Comprehension

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

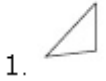
Sub questions

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

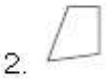
Correct Marks : 4 Wrong Marks : 1



Options :



1.



2.



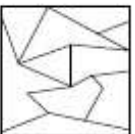
3.



4.

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

Correct Marks : 4 Wrong Marks : 1



Options :



1.



2.

3.



4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

1.



2.



3.



4.



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

Correct Marks : 4 Wrong Marks : 1



Options :

1.



2.



3.



4.



Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Question Numbers : (61 to 65)

Question Label : Comprehension

સૂચના : જવાબ આકૃતિઓમાંની એક આકૃતિ એજ કદ અને દિશા સાથે પ્રશ્ન આકૃતિમાં છુપાયેલ છે. સાચો જવાબ નક્કી કરો.

Sub questions

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.
- 2.
- 3.
- 4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

- 1.

2.



3.



4.

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

Correct Marks : 4 Wrong Marks : 1



Options :

1.



2.



3.



4.



Sub-Section Number: 6
Sub-Section Id: 416529513
Question Shuffling Allowed : Yes

Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (66 to 70)

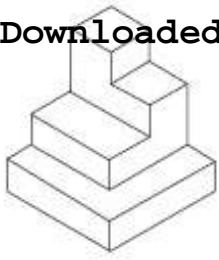
Question Label : Comprehension

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

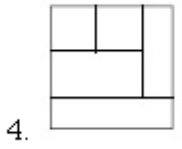
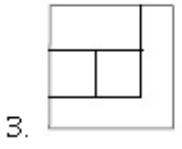
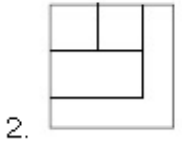
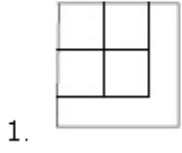
Sub questions

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

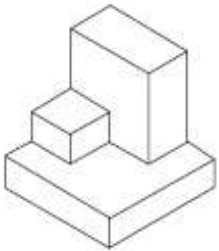
Correct Marks : 4 Wrong Marks : 1



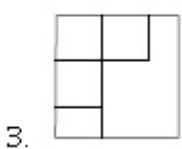
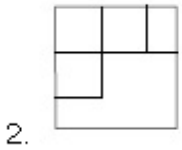
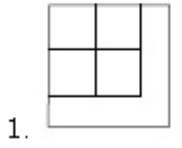
Options :

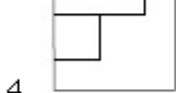


Question Number : 67 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1



Options :

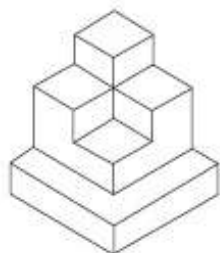




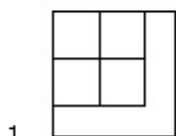
4.

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

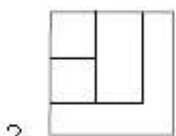
Correct Marks : 4 Wrong Marks : 1



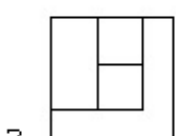
Options :



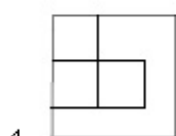
1.



2.



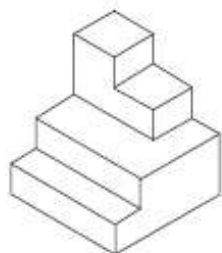
3.



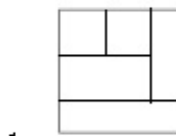
4.

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

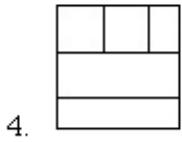
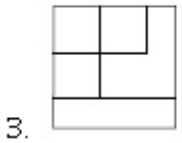
Correct Marks : 4 Wrong Marks : 1



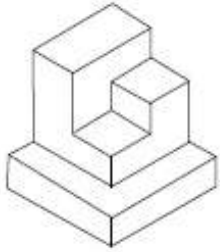
Options :



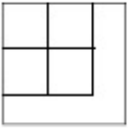
1.



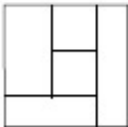
Question Number : 70 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1



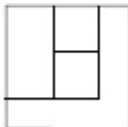
Options :



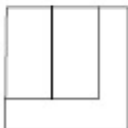
1.



2.



3.



4.

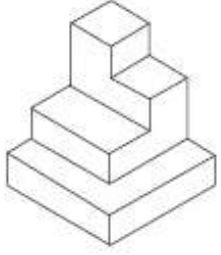
Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Numbers : (66 to 70)

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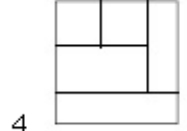
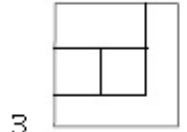
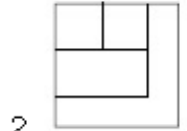
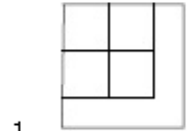
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

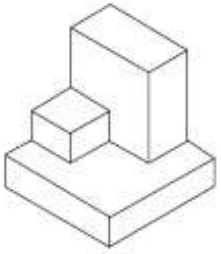


Options :

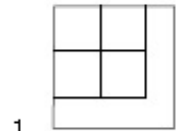


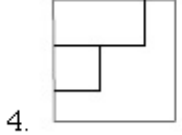
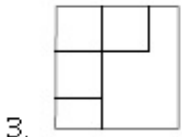
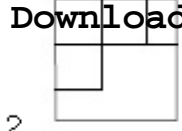
Question Number : 67 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

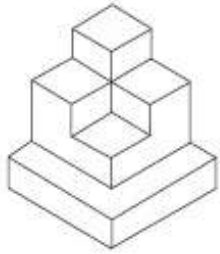


Options :

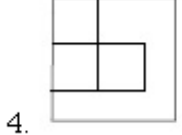
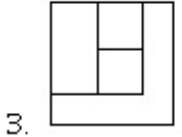
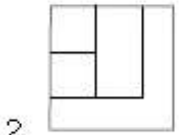
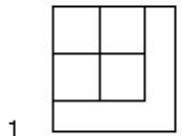




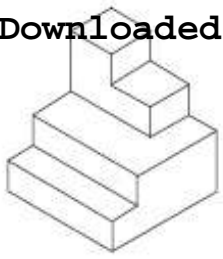
Question Number : 68 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1



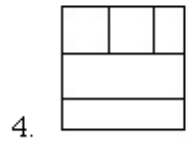
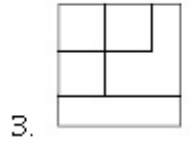
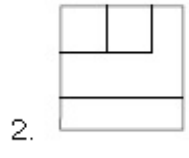
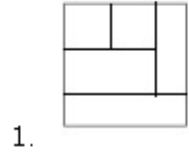
Options :



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

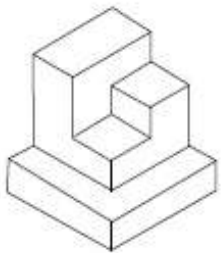


Options :

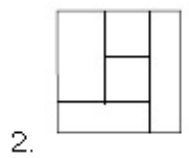
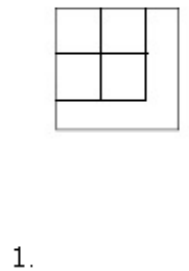


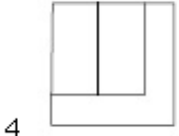
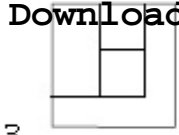
Question Number : 70 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :





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

Question Numbers : (66 to 70)

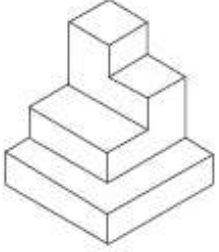
Question Label : Comprehension

સૂચના : 3 - D આકૃતિ એક પદાર્થનું દશ્ય ખાતલે છે. જવાબ આકૃતિઓમાંથી સાચું ઉપરી દશ્ય નક્કી કરો.

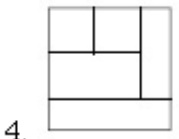
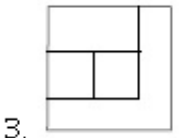
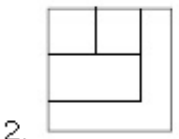
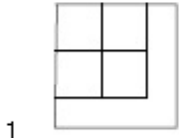
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

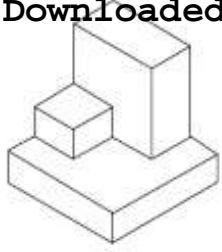


Options :

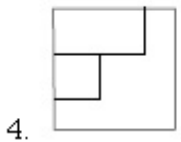
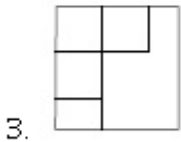
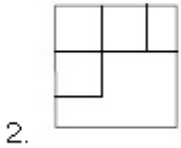
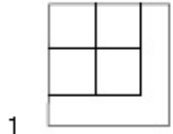


Question Number : 67 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

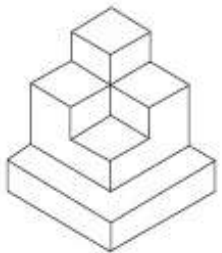
Correct Marks : 4 Wrong Marks : 1



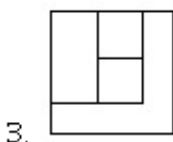
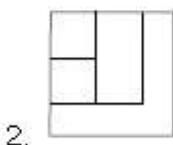
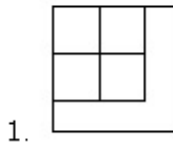
Options :



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



Options :

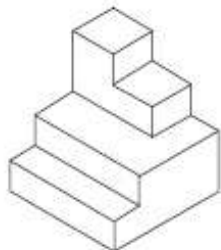




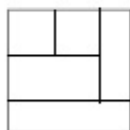
4.

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

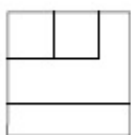
Correct Marks : 4 Wrong Marks : 1



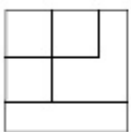
Options :



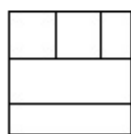
1.



2.



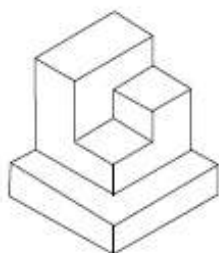
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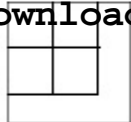
4.

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

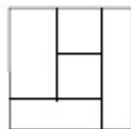
Correct Marks : 4 Wrong Marks : 1



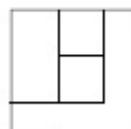
Options :



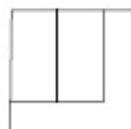
1.



2.



3.



4.

Sub-Section Number: 7
Sub-Section Id: 416529514
Question Shuffling Allowed : Yes

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

Question Numbers : (71 to 75)

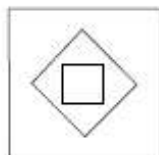
Question Label : Comprehension

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

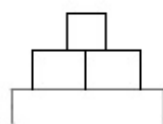
Sub questions

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

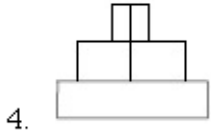
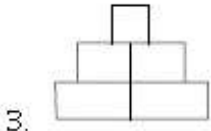
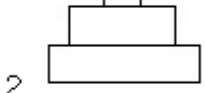
Correct Marks : 4 Wrong Marks : 1



Options :

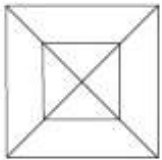


1.

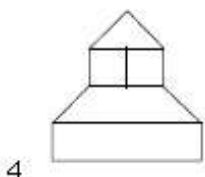
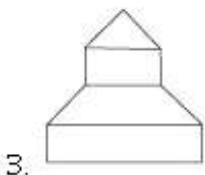
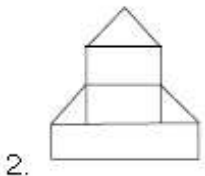
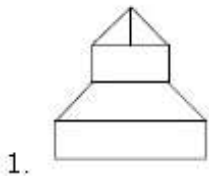


Question Number : 72 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

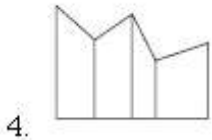
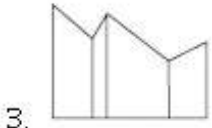
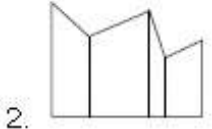
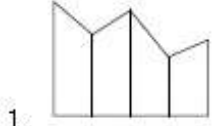


Question Number : 73 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

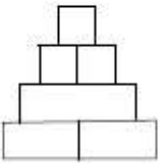


Options :

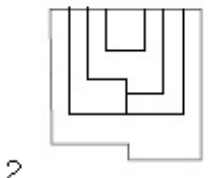
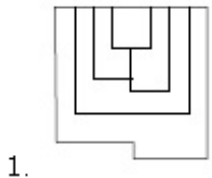


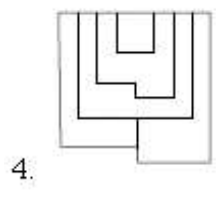
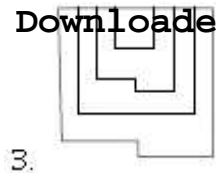
Question Number : 74 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



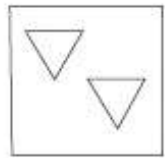
Options :



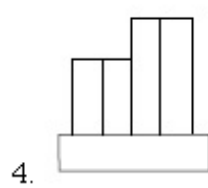
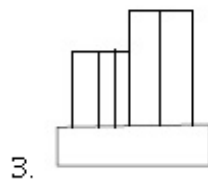
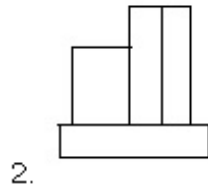
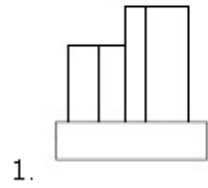


Question Number : 75 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



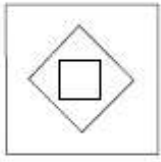
Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (71 to 75)
Question Label : Comprehension

Downloaded From : <http://cbseportal.com/> की दिशा में देखते हुए उत्तर आकृतियों में से इसका सही सम्मुख दृश्य पहचानिये।

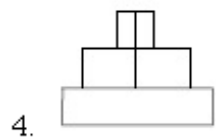
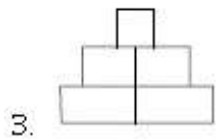
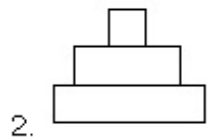
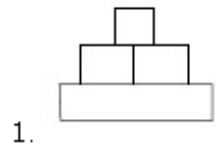
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

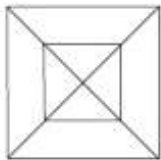


Options :

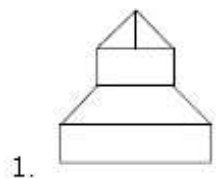


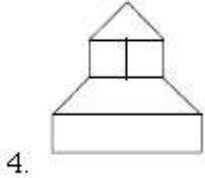
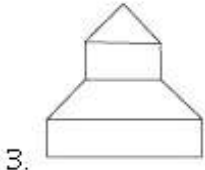
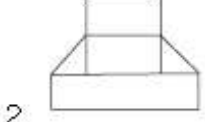
Question Number : 72 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

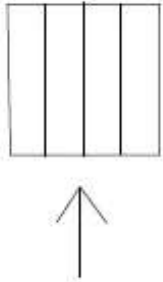


Options :

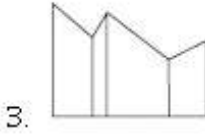
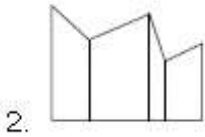
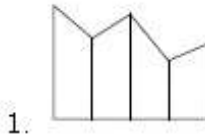




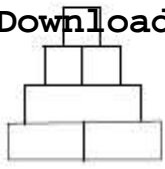
Question Number : 73 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



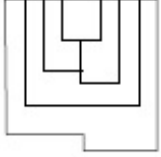
Options :



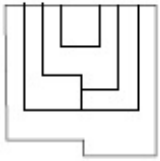
Question Number : 74 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



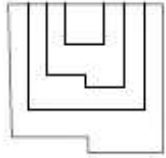
Options :



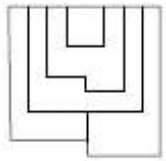
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2.



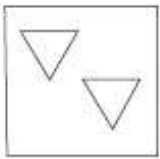
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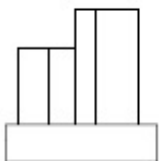
4.

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

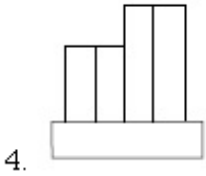
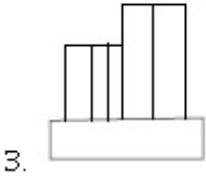
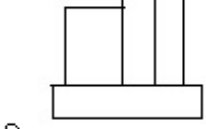
Correct Marks : 4 Wrong Marks : 1



Options :



1.



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

Question Numbers : (71 to 75)

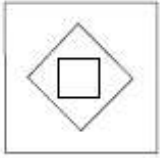
Question Label : Comprehension

સૂચના : પ્રશ્ન આકૃતિ એક પદાર્થનું ઉપરી દૃશ્ય બતાવે છે. તીરની દિશામાં જોતા મળતું સાચું ઉત્તર દૃશ્ય (elevation) જવાબ આકૃતિઓમાંથી નક્કી કરો.

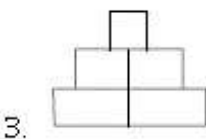
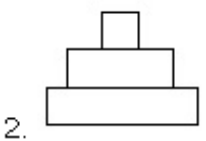
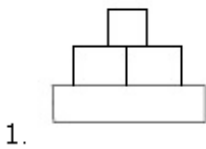
Sub questions

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

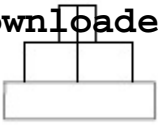
Correct Marks : 4 Wrong Marks : 1



Options :

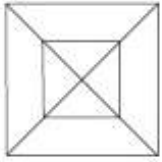


4.



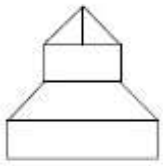
Question Number : 72 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

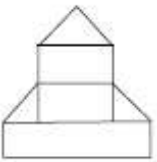


Options :

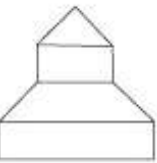
1.



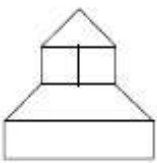
2.



3.



4.

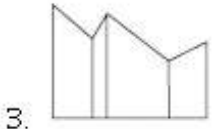
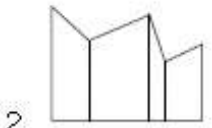


Question Number : 73 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

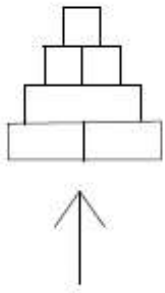


Options :

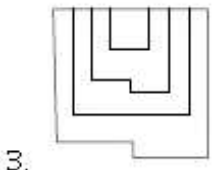
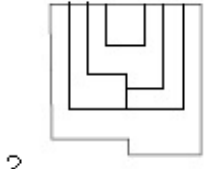
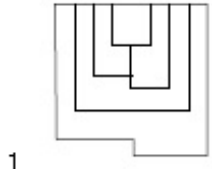


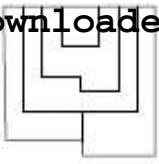
Question Number : 74 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

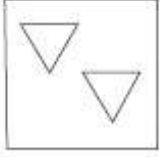




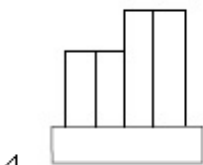
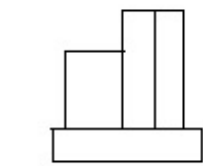
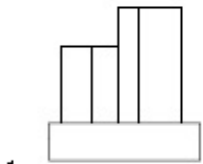
4.

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

Correct Marks : 4 Wrong Marks : 1



Options :



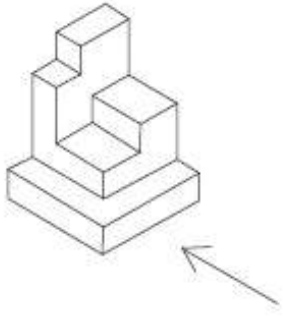
Sub-Section Number: 8
Sub-Section Id: 416529515
Question Shuffling Allowed : Yes

Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (76 to 80)
Question Label : Comprehension

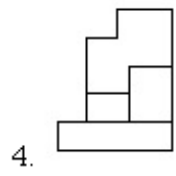
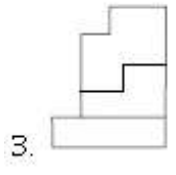
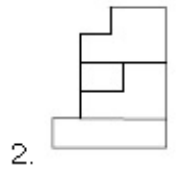
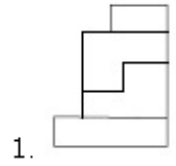
Directions : The 3D figure shows the view of an object. Identify the correct side view in the direction of the arrow, from amongst the answer figures.

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

Correct Marks : 4 Wrong Marks : 1

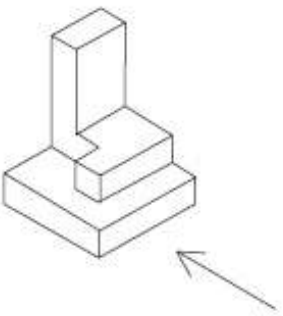


Options :

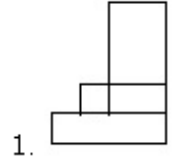


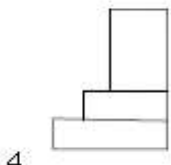
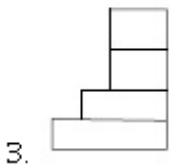
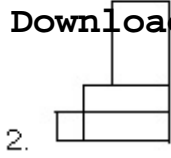
Question Number : 77 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

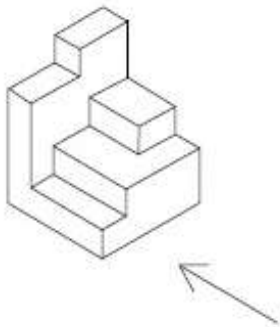


Options :

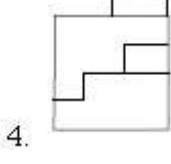
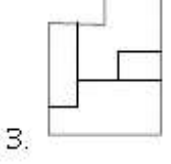
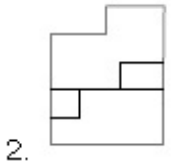
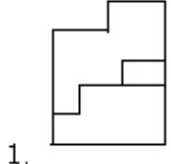


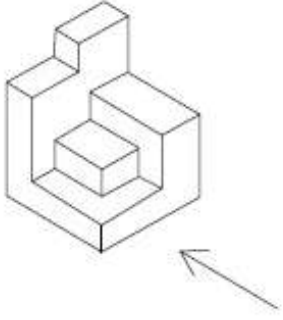


Question Number : 78 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

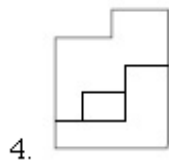
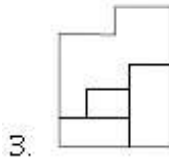
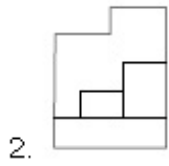
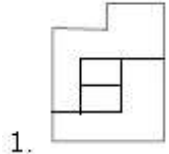


Options :



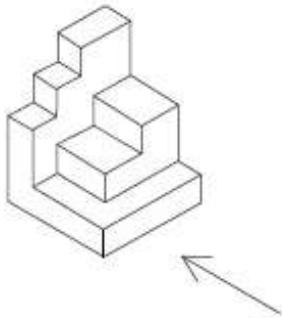


Options :

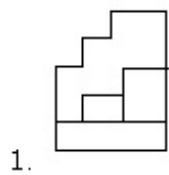


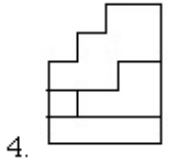
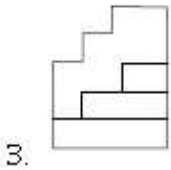
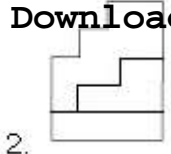
Question Number : 80 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :





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

Question Numbers : (76 to 80)

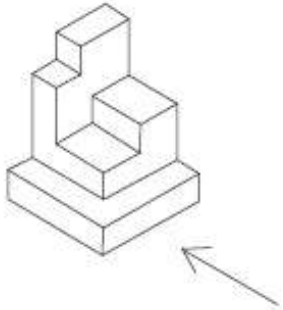
Question Label : Comprehension

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

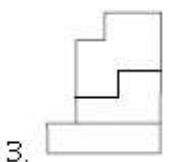
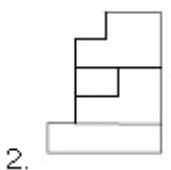
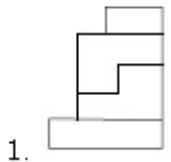
Sub questions

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

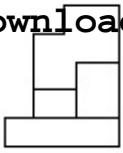
Correct Marks : 4 Wrong Marks : 1



Options :

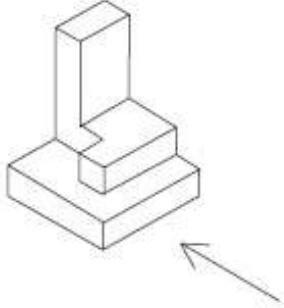


4.



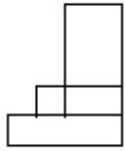
Question Number : 77 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

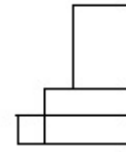


Options :

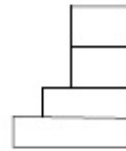
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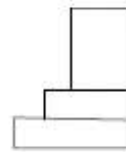
2.



3.

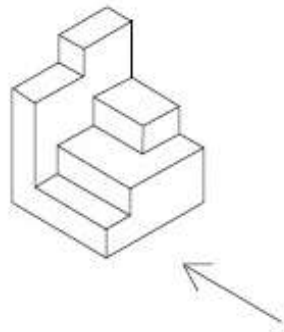


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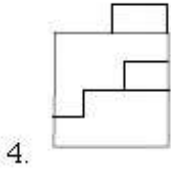
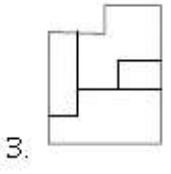
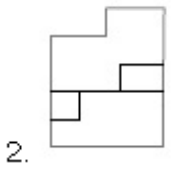
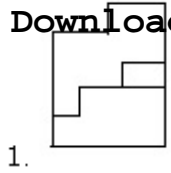


Question Number : 78 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

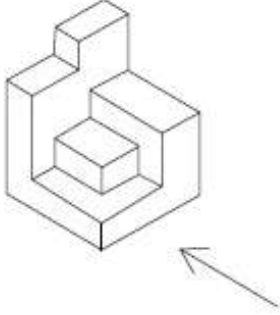
Correct Marks : 4 Wrong Marks : 1



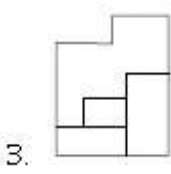
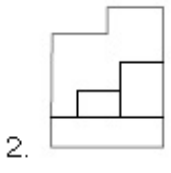
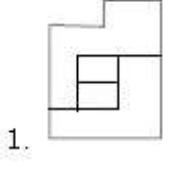
Options :



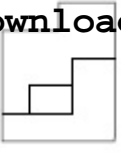
Question Number : 79 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1



Options :

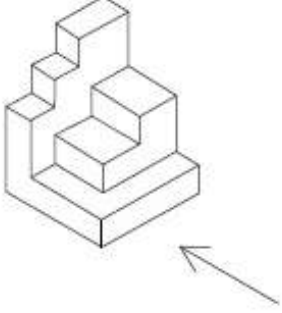


4.



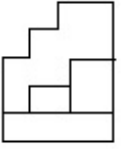
Question Number : 80 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

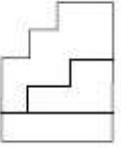


Options :

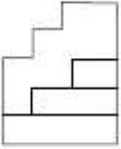
1.



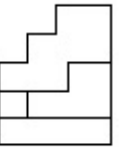
2.



3.



4.



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

Question Numbers : (76 to 80)

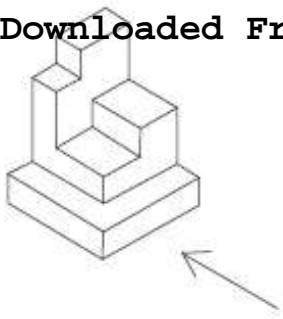
Question Label : Comprehension

સૂચના : 3 - D આકૃતિ એક પદાર્થનું દૃશ્ય બતાવે છે. તીરની દિશામાં જોતાં મળતું સાચું પાર્શ્વ દૃશ્ય (side view) જવાબ આકૃતિમાંથી નક્કી કરો.

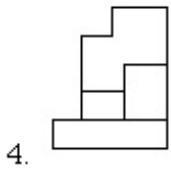
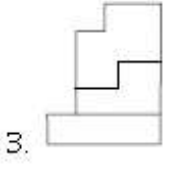
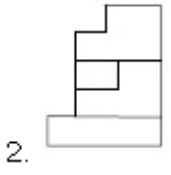
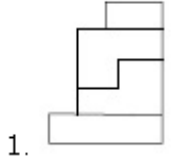
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

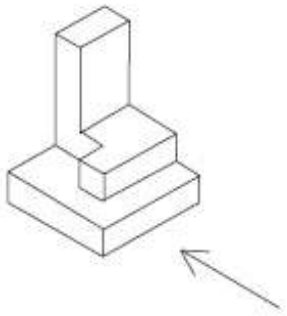


Options :

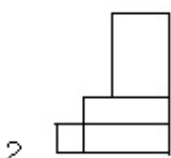
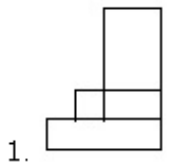


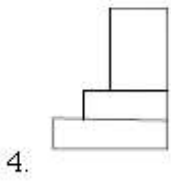
Question Number : 77 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

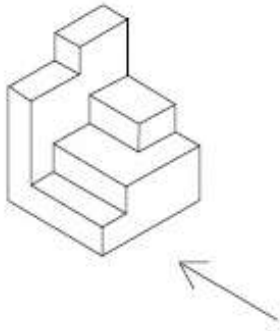


Options :

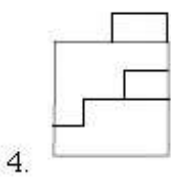
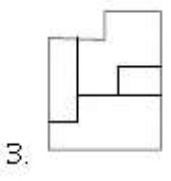
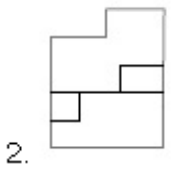
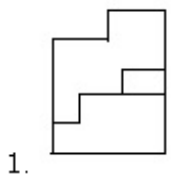




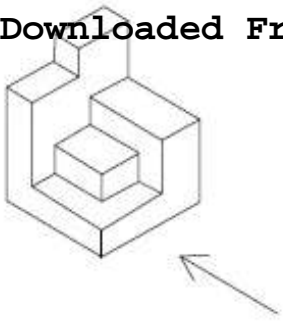
Question Number : 78 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



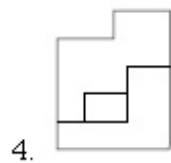
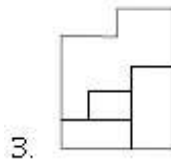
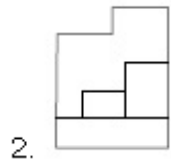
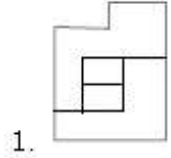
Options :



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

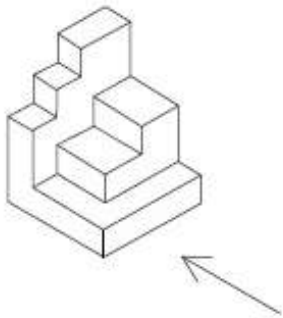


Options :

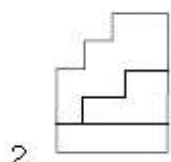
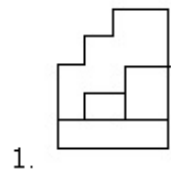


Question Number : 80 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

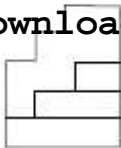
Correct Marks : 4 Wrong Marks : 1



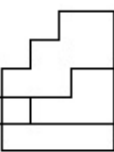
Options :



3.



4.



	Drawing
Section Id :	416529345
Section Number :	3
Section type :	Offline
Mandatory or Optional:	Mandatory
Number of Questions:	3
Number of Questions to be attempted:	3
Section Marks:	70
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529516
Question Shuffling Allowed :	No

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

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

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

फ्रेम बनाने के लिए मार्जिन लाइनों को खींचे। इस फ्रेम में केवल सिलेंडर और घनक्षेत्रों (क्यूब्स) का उपयोग कर एक सौंदर्य रचना बनानी है। ये आकार किसी भी आकार के हो सकते हैं और इन्हें एक दूसरे के भीतर, अलग-अलग, अतिव्यापी रखा जा सकता है। इसके पीछे विचार यह है कि फ्रेम में इन आकृतियों की एक सौंदर्य और नेत्र रोमांचक रचना का निर्माण करना है, बिना किसी यथार्थवादी रूप जैसे घर चेहरे आदि का प्रतिनिधित्व करना। इन आकृतियों और अन्य स्थानों को अपनी पसंद के कुछ रंगों से भरा होना चाहिए ताकि रचना की गुणवत्ता को बढ़ाया जा सके। 20 अंक

Question Number : 81 Question Type : SUBJECTIVE Display Question Number : Yes

Correct Marks : 20

આ પ્રશ્નનાં જવાબ માટે ઉત્તરવહીમાં આપવામાં આવેલ જગ્યામાં ફેમ બનાવવા માટે હાંસિયા-રેખાઓ દોરો. ફક્ત નળાકાર અને ઘનોનો ઉપયોગ કરી આ ફેમમાં સુંદર સંયોજનની રચના કરો. આ ગમે તે કદનાં અને જૂદા, એક-બીજા ઉપર ફેલાયેલ કે એક બીજાથી અંદર હોઈ શકે છે. ઘર કે ચહેરા જેવા વાસ્તવિક રૂપનાં નિરૂપણ ન થાય તે રીતે સુંદર અને જોવામાં રોમાંચકારી લાગે તેવા સંયોજનનું નિર્માણ કરવાનો ખ્યાલ છે. આકારો અને અવકાશ ને તમારા મન ગમતાં રંગોથી ભરો કે જેથી સંયોજનની દૃશ્ય ગુણવત્તામાં વધારો થાય. 20 ગુણ

Question Number : 82 Question Type : SUBJECTIVE Display Question Number : Yes

Correct Marks : 20

provided for the answer of this question.

Credit will be given to the exactness of your

answer.

20 marks



Question Number : 82 Question Type : SUBJECTIVE Display Question Number : Yes

Correct Marks : 20

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



ગ્રાફિક ચિત્રની આ પ્રશ્નનાં જવાબ માટે આપવામાં આવેલ જગ્યામાં નકલ કરો. જવાબની સઓટતા મુજબ ક્રેડીટ આપવામાં આવશે. 20 ગુણ



Sub-Section Number: 2
Sub-Section Id: 416529517
Question Shuffling Allowed : No

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

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

Design and draw an appropriate pattern for a bed cover for a girls room. Color or shade it to enhance its visual quality.

OR

Draw an imaginary picture of a restaurant.

OR

Draw from imagination a picture of an Indian leader.

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

में से किसी एक का प्रयास करें : 30 अंक

लड़कियों के कमरे के लिए बेड कवर के लिए एक उपयुक्त पैटर्न डिजाइन और चित्रित करें। इसकी दृश्य गुणवत्ता बढ़ाने के लिए इसे रंग या छाया दें।

या

एक रेस्तरां की एक काल्पनिक तस्वीर चित्रित करें।

या

भारतीय नेता की तस्वीर कल्पना से चित्रित करें।

Question Number : 83 Question Type : SUBJECTIVE Display Question Number : Yes

Correct Marks : 30

આ પ્રશ્નનાં ઉત્તર માટે આપવામાં આવેલ જગ્યામાં નીચેનામાંથી ગમે તે એક નો જવાબ આપો. 30 ગુણ

છોકરીનાં ઓરડાનાં બેડ-કવર ની યોગ્ય ભાત (pattern) ડિઝાઇન કરો અને દોરો.

અથવા

રેસ્ટોરાંનું કાલ્પનિક ચિત્ર દોરો.

અથવા

કલ્પના ઉપર આધારિત ભારતીય નેતાનું ચિત્ર દોરો.