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Paper II

Group Number : 1
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Mathematics

Section Id : 416529349
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 30
Number of Questions to be attempted: 30
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Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 416529529
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

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

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

Options :

1. હૈ।

સમમિત હૈ પરન્તુ ન સ્વતુલ્ય હૈ ઓર ન હી સંક્રામક

2. હૈ।

સંક્રામક હૈ પરન્તુ ન સ્વતુલ્ય હૈ ઓર ન હી સમમિત

3. હૈ।

સમમિત તથા સંક્રામક હૈ પરન્તુ સ્વતુલ્ય નહીં

4. હૈ।

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

ધારો કે R એ $Z \times Z$ પરનો

$(a, b) R (c, d) \Leftrightarrow a - d = b - c$, જ્યાં Z એ બધા

જ પૂર્ણાંકોનો ગણ છે. તો R એ _____.

Options :

સ્વવાચક છે પરંતુ સંમિત નથી અને પરંપરિત

1. પણ નથી.

સંમિત છે પરંતુ સ્વવાચક નથી અને પરંપરિત

2. પણ નથી.

પરંપરિત છે પરંતુ સ્વવાચક નથી અને સંમિત

3. પણ નથી.

સંમિત અને પરંપરિત છે પરંતુ સ્વવાચક નથી

4. પણ નથી.

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

Let R be a relation defined on $Z \times Z$ by

$(a, b) R (c, d) \Leftrightarrow a - d = b - c$, where Z is

the set of all integers, then R is :

Options :

reflexive but neither symmetric nor

1. transitive.

2. transitive.
3. transitive but neither reflexive nor symmetric.
4. symmetric and transitive but not reflexive.

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

Correct Marks : 4 Wrong Marks : 1

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

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

(Here $\theta = \arg z$)

Options :

1. $-\tan\left(\frac{\theta}{2}\right) \sin\theta$
2. $\tan\left(\frac{\theta}{2}\right) \cos\theta$
3. $-\tan\left(\frac{\theta}{2}\right) \cos\theta$
4. $\tan\left(\frac{\theta}{2}\right) \sin\theta$

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

Correct Marks : 4 Wrong Marks : 1

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

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

(यहाँ $\theta = \arg z$)

Options :

1. $\tan\left(\frac{\theta}{2}\right) \sin\theta$
2. $\tan\left(\frac{\theta}{2}\right) \cos\theta$
3. $-\tan\left(\frac{\theta}{2}\right) \cos\theta$
4. $\tan\left(\frac{\theta}{2}\right) \sin\theta$

Question Number : 2 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 $z (\neq -1)$ કોઈ એવી સંકર સંખ્યા છે કે જેથી

$|z| = 1$ થાય. તો $\frac{\bar{z}(1-z)}{z(1+\bar{z})}$ નો કાર્પનિક ભાગ

_____ છે.
(અહીં $\theta = \arg z$.)

Options :

1. $-\tan\left(\frac{\theta}{2}\right) \sin\theta$
2. $\tan\left(\frac{\theta}{2}\right) \cos\theta$
3. $-\tan\left(\frac{\theta}{2}\right) \cos\theta$
4. $\tan\left(\frac{\theta}{2}\right) \sin\theta$

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

The set of all real values of α for which the

equation, $|x+2| \cdot |x-2| = \alpha^2 - 2\alpha$ has real

solutions for x , is :

Options :

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

3. $[-1 - \sqrt{5}, 1 - \sqrt{5}] \cup [1 + \sqrt{5}, \infty)$

4. $[1 - \sqrt{5}, 0] \cup [2, 1 + \sqrt{5}]$

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

α के उन सभी वास्तविक मानों, जिनके लिए समीकरण

$|x + 2| \cdot |x - 2| = \alpha^2 - 2\alpha$, के x में वास्तविक हल हैं, का समुच्चय है :

Options :

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

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

3. $[-1 - \sqrt{5}, 1 - \sqrt{5}] \cup [1 + \sqrt{5}, \infty)$

4. $[1 - \sqrt{5}, 0] \cup [2, 1 + \sqrt{5}]$

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

x માટે સમીકરણ $|x + 2| \cdot |x - 2| = \alpha^2 - 2\alpha$ ને વાસ્તવિક ઉકેલો હોય તે માટેની α ની તમામ વાસ્તવિક કિંમતોનો ગણ _____ છે.

Options :

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

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

3. $[-1 - \sqrt{5}, 1 - \sqrt{5}] \cup [1 + \sqrt{5}, \infty)$

4. $[1 - \sqrt{5}, 0] \cup [2, 1 + \sqrt{5}]$

Correct Marks : 4 Wrong Marks : 1

Let A be a 2×2 matrix such that $A^2 + A + I = 0$, where $I = I_2$. Then

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

Options :

1. 3^3
2. 3^4
3. 3^6
4. 3^9

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

माना A एक 2×2 आव्यूह, जिसके लिए $A^2 + A + I = 0$, जबकि $I = I_2$ है, तो

$|\text{adj}((I - A)^6)|$ बराबर है :

Options :

1. 3^3
2. 3^4
3. 3^6
4. 3^9

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

ધારો કે A એક એવો 2×2 શ્રેણિક છે કે જેથી $A^2 + A + I = 0$ થાય, જ્યાં $I = I_2$. તો

$|\text{adj}((I - A)^6)|$ બરાબર _____ છે.

Options :

1. 3^3

3. 3^6

4. 3^9

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

If the system of linear equations

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

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

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

has infinitely many solutions, then the ordered pair (α, β) cannot take the value :

Options :

1. $(4, -2)$

2. $(2, -4)$

3. $(3, -3)$

4. $(-3, 3)$

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

यदि रैखिक समीकरण निकाय

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

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

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

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

Options :

1. $(4, -2)$

2. $(2, -4)$

4. $(-3, 3)$

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

જો સુરેખ સમીકરણ સંહિત

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

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

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

ને અનંત ઉકેલો હોય, તો કમ્યુક્ટ જોડ (α, β) ની કિંમત _____ ન હોઈ શકે.

Options :

1. $(4, -2)$ 2. $(2, -4)$ 3. $(3, -3)$ 4. $(-3, 3)$

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

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

Then the number of elements in B is :

Options :

1. 420

2. 360

3. 480

4. 240

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

तो B के अवयवों की संख्या है :

Options :

1. 420
2. 360
3. 480
4. 240

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

ધારો કે A એ 3-અંકોવાળી તમામ પ્રાકૃતિક સંખ્યાઓનો ગણ છે અને $B = \{x \in A : \text{H.C.F.}(x, 15) = 1\}$. તો B ના સંખ્યોની સંખ્યા _____ છે.

Options :

1. 420
2. 360
3. 480
4. 240

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

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

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

Options :

1. $\frac{55}{2}$
2. $\frac{91}{2}$

4. 70

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

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

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

Options :

1. $\frac{55}{2}$ 2. $\frac{91}{2}$

3. 102

4. 70

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

જો $(98)^5$ ને 12 વડે ભાગતાં મળતી શોષ r હોય, તો

$\left(1 + \frac{x}{2}\right)^{2r}$ ના દ્વિપદી વિસ્તરણમાં x^3 નો સહગુણક _____ છે.

Options :

1. $\frac{55}{2}$ 2. $\frac{91}{2}$

3. 102

4. 70

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

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

Options :

1. 127
2. 129
3. 126
4. 128

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

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

Options :

1. 127
2. 129
3. 126
4. 128

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

એક વધતી સમગુણોત્તર શ્રેઢીના પહેલા અને છઠ્ઠા પદોનો સરવાળો 66 તથા બીજા અને પાંચમા પદોનો ગુણાકાર 128 છે. તો આ શ્રેઢીના પ્રથમ 6 પદોનો સરવાળો _____ છે.

Options :

1. 127

3. 126

4. 128

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

The sum of the infinite series

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

Options :

1. 4

2. 5

3. 6

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

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

अनन्त श्रेणी

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

का योगफल बराबर है :

Options :

1. 4

2. 5

3. 6

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

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

1 + 2 + $\frac{2}{3}$ + $\frac{6}{3^2}$ + $\frac{10}{3^3}$ + $\frac{14}{3^4}$ + નો
સરવાળો _____ છે.

Options :

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

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

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

Options :

1. $\frac{5}{6}$
2. $\frac{1}{6}$
3. $-\frac{2}{3}$
4. $-\frac{5}{6}$

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

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

Options : _____

1. 6

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

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

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

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

$$\lim_{x \rightarrow 3} \frac{\sqrt{x+6} - \sin(x-3) - 3}{(x-3)\cos(x-3)} = \underline{\hspace{2cm}}$$

Options :

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

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

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

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

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

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

Then the value of $a + b$ is :

Options :

1. 1
2. 4
3. 5
4. 8

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 संतत फलन f निम्न प्रकार से परिभाषित है :

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

तो $a + b$ का मान है :

Options :

1. 1
2. 4
3. 5

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 એ

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

દ્વારા વ્યાખ્યાયિત સતત વિધેય હોય, તો $a + b$ ની કિંમત _____ છે.

Options :

1. 1
2. 4
3. 5
4. 8

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 y be an implicit function of x defined

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

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

Options :

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

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

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

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

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

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

Options :

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

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

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

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

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

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

દ્વારા વ્યાખ્યાયિત છે. જો $y(0) = -1$, તો $x=0$ આગળ

$$\frac{dy}{dx} = \underline{\hspace{2cm}}.$$

Options :

1. $\frac{1}{2}$
2. $-\frac{1}{2}$
3. $\frac{5}{4}$
4. $-\frac{4}{5}$

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

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

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

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

Options :

1. $f''(1) + f''(-1) = 0$
2. $f''(1) - f''(-1) = 4$
3. both $x = 1$ and $x = -1$ are local minima of $f(x)$
4. $x = 1$ is a local minima and $x = -1$ is a local maxima of $f(x)$

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

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

યદિ $x = -1$ તથા $x = 1, f(x)$ કે દો ક્રાંતિક બિન્દુ છે,
તો :

Options :

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

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

3. $x = 1$ તથા $x = -1$, દોનોં $f(x)$ કે સ્થાનીય
નિમ્નતમ બિન્દુ છે।

4. $f(x)$ કા $x = 1$, એક સ્થાનીય નિમ્નતમ બિન્દુ છે
તથા $x = -1$, એક સ્થાનીય ઉચ્ચતમ બિન્દુ છે।

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

ધારો કે $f: \mathbb{R} - \{0\} \rightarrow \mathbb{R}$ એ

$f(x) = a \log_e |x| + bx^3 + x^2$ દ્વારા વ્યાખ્યાયિત છે.
જો $x = -1$ અને $x = 1$ એ $f(x)$ ના નિર્ણાયક બિંદુઓ
હોય, તો _____.

Options :

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

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

3. $x = 1$ અને $x = -1$ બન્ને આગળ $f(x)$ સ્થાનીય
ન્યૂનતમ છે.

4. $x = 1$ આગળ $f(x)$ સ્થાનીય ન્યૂનતમ અને
 $x = -1$ આગળ $f(x)$ સ્થાનીય મહત્તમ છે.

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

such that $|f(x)| \leq 3$ for all $x \in [0, 5]$ and

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

can be :

Options :

1. -4
2. 6
3. 10
4. 12

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 $f: [0, 5] \rightarrow \mathbb{R}$ एक संतत फलन इस प्रकार है कि

सभी $x \in [0, 5]$ के लिए $|f(x)| \leq 3$ तथा

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

बराबर हो सकता है?

Options :

1. -4
2. 6
3. 10
4. 12

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

તમામ $x \in [0, 5]$ માટે $|f(x)| \leq 3$ અને

$$\int_0^5 f(t) dt = 3 \text{ છે. તો } \int_0^3 f(t) dt \text{ ની કિંમત}$$

_____ હોઈ શકે.

Options :

1. -4

2. 6

3. 10

4. 12

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

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

(where C is a constant of integration)

Options :

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

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

3. $2(\tan x)^{\frac{1}{2}} + \frac{1}{5}(\tan x)^{\frac{5}{2}} + C$

4. $2(\tan x)^{\frac{1}{2}} - \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

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

$\int \frac{1}{\sqrt{\sin x \cdot \cos^5 x}} dx$ का चर है :

(जहाँ C एक समाकलन अचर है)

Options :

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

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

3. $2(\tan x)^{\frac{1}{2}} + \frac{1}{5}(\tan x)^{\frac{5}{2}} + C$

4. $2(\tan x)^{\frac{1}{2}} - \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

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

$\int \frac{\sec x}{\sqrt{\sin x \cdot \cos^5 x}} dx = \dots\dots\dots$

(જ્યાં C એ સંકલનનો અચરસ છે.)

Options :

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

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

3. $2(\tan x)^{\frac{1}{2}} + \frac{1}{5}(\tan x)^{\frac{5}{2}} + C$

4. $2(\tan x)^{\frac{1}{2}} - \frac{2}{5}(\tan x)^{\frac{5}{2}} + C$

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

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

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Options :

1. $2(3^5)$
2. 3^5
3. $\frac{3^5}{5}$
4. 3^4

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

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

Options :

1. $2(3^5)$
2. 3^5
3. $\frac{3^5}{5}$
4. 3^4

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

$$\int_{-3}^3 \frac{5x^4}{1+e^{-x}} dx = \underline{\hspace{2cm}}.$$

Options :

1. $2(3^5)$
2. 3^5
3. $\frac{3^5}{5}$

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) above the x -axis bounded by the parabola, $x - y^2 - 1 = 0$ and the line $x - y - 3 = 0$ is :

Options :

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

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

3. 4

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

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

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

Options :

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

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

3. 4

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

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

રેખા $x - y - 3 = 0$ દ્વારા આવૃત પ્રદેશનું ક્ષેત્રફળ (ચો. એકમમાં) _____ છે.

Options :

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

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

3. 4

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

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

Options :

1. $xy^5 = 2^6$

2. $xy^4 = 2^5$

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

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

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

માના એક વક્ર કે કિસી બિન્દુ $P(x, y)$ પર ઝીંચી ગઈ સ્પર્શરેખા x તથા y -અક્ષોં કો ક્રમશઃ દો ભિન્ન બિન્દુઓં A તથા B પર કાટતી હૈ। યદિ $AP : PB = 5 : 1$ હૈ ઓર વક્ર બિન્દુ $(2, 2)$ સે હોકર જાતા હૈ, તો વક્ર કા એક સમીકરણ હૈ :

1. $xy^3 = 2^6$

2. $xy^4 = 2^5$

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

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

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

ધારો કે કોઈ વક્રના કોઈપણ બિંદુ $P(x, y)$ આગળ દોરેલ સ્પર્શક x અને y અક્ષોને અનુક્રમે A અને B બિંદુઓ આગળ છેદે છે. જો $AP : PB = 5 : 1$ તથા વક્ર, બિંદુ $(2, 2)$ માંથી પસાર થતો હોય તો વક્રનું સમીકરણ _____ છે.

Options :

1. $xy^5 = 2^6$

2. $xy^4 = 2^5$

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

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

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

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

Options :

1. 8

2. 16

3. 24

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

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

Options :

1. 8
2. 16
3. 24
4. 32

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

ધારો $A(1, 3)$ અને $C(5, 1)$ એ એક લંબચોરસના બે સામસામેના શિરોબિંદુઓ છે. બાકીના બે શિરોબિંદુઓ $B(a, b)$ અને $D(c, d)$, કોઈક k માટે, રેખા $y = 2x + k$ પર આવેલા છે. તો $(a + b) \cdot (c + d)$ ની કિંમત _____ છે.

Options :

1. 8
2. 16
3. 24
4. 32

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

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

Options :

1. 5
2. 6
3. $2\sqrt{6}$
4. $2\sqrt{10}$

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

માના એક વૃત્ત પર દો બિન્દુઓ A તથા B કે ભુજ (abscissae), $x^2 + 2x - 4 = 0$ કે મૂલ હૈં તથા A ઔર B કે કોટિ (ordinates), $y^2 + 4y - 16 = 0$ કે મૂલ હૈં. યદિ AB ઇસ વૃત્ત કા એક વ્યાસ હૈ, તો ઇસકી ત્રિજ્યા બરાબર હૈ :

Options :

1. 5
2. 6
3. $2\sqrt{6}$
4. $2\sqrt{10}$

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

ધારો કે એક વર્તુળ પરના બે બિંદુઓ A અને B ના x -યામો એ $x^2 + 2x - 4 = 0$ ના બીજ છે તથા A અને B ના y -યામો એ $y^2 + 4y - 16 = 0$ ના બીજ છે. જો AB આ વર્તુળનો વ્યાસ હોય, તો આ વર્તુળની ત્રિજ્યા _____ છે.

Options :

2. 6

 3. $2\sqrt{6}$

 4. $2\sqrt{10}$

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

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

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

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

Options :

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

 2. $\frac{39}{4}$

3. 9

 4. $\frac{41}{4}$

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

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

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

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

Options :

1. 2

2. $\frac{39}{4}$

3. 9

4. $\frac{41}{4}$

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

ધારો કે P એ પરવલય $y^2 = 3x$ પરનું એવું બિંદુ છે કે

જેથી OP એ x- અક્ષ સાથે $\frac{\pi}{6}$ નો ખૂણો બનાવે, જ્યાં

O ઊગમબિંદુ છે. P આગળ પરવલયને દોરેલ અભિલંબ એ પરવલયના અક્ષને Q આગળ છેદે છે. જો S એ પરવલયની નાભિ હોય તો SQ બરાબર _____ થાય.

Options :

1. $\frac{39}{2}$ 2. $\frac{39}{4}$

3. 9

4. $\frac{41}{4}$

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

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

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

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

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

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

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

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

Options :

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

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

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

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

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

ધારો કે જેની બાજુઓ યામાક્ષોને સમાંતર હોય તેવા લંબચોરસમાં ઉપવલય $x^2 + 16y^2 = 16$ અંતર્ગત છે. જો આ લંબચોરસ, બિંદુ $(16, 0)$ માંથી પસાર થતા હોય તેવા બીજા ઉપવલયમાં અંતર્ગત હોય, તો બહારના ઉપવલયનું સમીકરણ _____ છે.

Options :

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

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

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

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

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

Options :

1. $(0, 5, 8)$
2. $(0, 5, -8)$
3. $(-1, 0, -7)$
4. $(1, 0, 7)$

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

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

Options :

1. $(0, 5, 8)$
2. $(0, 5, -8)$
3. $(-1, 0, -7)$
4. $(1, 0, 7)$

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

લંબ છે. તો બિંદુ $(2, -2, -2)$ માંથી પસાર થતું તથા
આપેલા સમતલોને લંબ સમતલ _____ બિંદુમાંથી
પણ પસાર થાય છે.

Options :

1. $(0, 5, 8)$
2. $(0, 5, -8)$
3. $(-1, 0, -7)$
4. $(1, 0, 7)$

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

Correct Marks : 4 Wrong Marks : 1

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

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

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

Options :

1. $\sqrt{10}$
2. $2\sqrt{5}$
3. $\sqrt{29}$
4. $\sqrt{34}$

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

Correct Marks : 4 Wrong Marks : 1

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

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

$\frac{x-2}{m-2} = \frac{y}{-1} = \frac{z-2m}{1-3m}$ समान्तर हैं, तो दोनों

के बीच की दूरी है :

1. $\sqrt{10}$

2. $2\sqrt{5}$

3. $\sqrt{29}$

4. $\sqrt{34}$

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

Correct Marks : 4 Wrong Marks : 1

કોઈ $m \in \mathbb{R}$ માટે જો બે રેખાઓ

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

$$\frac{x - 2}{m - 2} = \frac{y}{-1} = \frac{z - 2m}{1 - 3m} \text{ સમાંતર હોય, તો}$$

તેમની વચ્ચેનું અંતર _____ છે.

Options :

1. $\sqrt{10}$

2. $2\sqrt{5}$

3. $\sqrt{29}$

4. $\sqrt{34}$

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

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

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

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

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

is :

Options :

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

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

3. $2\hat{i} - 2\hat{j} + \hat{k}$

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

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

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

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

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

Options :

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

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

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

4. $2\hat{i} - 2\hat{j} + \hat{k}$

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

જો ત્રણ સદિશો $\vec{V}_1 = \alpha\hat{i} + \hat{j} + \hat{k}$,

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

સમતલીય છે, તથા $\vec{V}_1$ અને $\vec{V}_3$ પરસ્પર લંબ છે, તો

સદિશ $\vec{V}_1 \times \vec{V}_2$ એ _____ છે.

Options :

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

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

3. $2\hat{i} - 2\hat{j} + \hat{k}$

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

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

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

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

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

Options :

1. 5

2. 8

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

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

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

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

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

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

Options :

2. 8

3. $\frac{13}{3}$ 4. $\frac{16}{3}$

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

જો $x_1, x_2, \dots, x_n$ એવી અવલોકિત માહિતી છે કે

$$\text{જેથી } \sum_{i=1}^n x_i - 2n = 180 \text{ તથા}$$

$$\sum_{i=1}^n x_i - 7n = 30, \text{ થાય, તો માહિતી } (x_1 - 3),$$

$(x_2 - 3), \dots, (x_n - 3)$ નો મધ્યક બરાબર _____ છે.

Options :

1. 5

2. 8

3. $\frac{13}{3}$ 4. $\frac{16}{3}$

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

If for two events A and B, in a random

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

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

Options :

1.

$\frac{5}{16}$

2.

$\frac{5}{17}$

3.

$\frac{16}{17}$

4.

$\frac{11}{16}$

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

यदि एक यादृच्छिक प्रयोग में, दो घटनाओं A तथा B

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

$P(A|A \cup B)$ बराबर है :

Options :

1.

$\frac{5}{16}$

2.

$\frac{5}{17}$

3.

$\frac{16}{17}$

4.

$\frac{11}{16}$

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

કોઈ યાદચ્છિક પ્રયોગમાં બે બે ઘટનાઓ A અને B માટે

$P(A|B) = \frac{4}{5}$ અને $P(B|A) = \frac{1}{4}$ હોય, તો

$P(A|A \cup B)$ બરાબર _____ છે.

Options :

1.

$$\frac{5}{16}$$

2.

$$\frac{5}{17}$$

3.

$$\frac{16}{17}$$

4.

$$\frac{11}{16}$$

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

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

Options :

1.

$$\frac{1}{3}$$

2.

$$1$$

3.

$$3$$

4.

$$\frac{9}{2}$$

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

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

Options :

1.

$$\frac{1}{3}$$

2.

$$1$$

3.

$$3$$

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

જો $6 \cos^2 \theta - 2 \cos 2\theta - 3 = 0$, તો $\tan^2 3\theta$ બરાબર _____ છે.

Options :

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

2. 1

3. 3

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

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

1. 0

2. 1

3. 2

4. -1

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

Correct Marks : 4 Wrong Marks : 1

भुजाएँ हैं जो, क्रमशः, इसके कोणों A, B तथा C के

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

बराबर है :

Options :

1. 0
2. 1
3. 2
4. -1

Question Number : 29 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 a, b અને c (તમામ ભિન્ન) એ અનુક્રમે એક ત્રિકોણ ABC ના ખૂણાઓ A, B અને C ની સામેની બાજુઓ

હોય, તો $\frac{c \sin(A - B)}{a^2 - b^2} - \frac{b \sin(C - A)}{c^2 - a^2}$
= _____.

Options :

1. 0
2. 1
3. 2
4. -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

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

Options :

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

3. $p \wedge \sim q$

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

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

વ્યંજક $\sim(p \leftrightarrow q)$ નિમ્ન મેં સે કિસકે સમતુલ્ય હૈ?

Options :

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

2. $p \vee q$

3. $p \wedge \sim q$

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

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

નિરૂપણ $\sim(p \leftrightarrow q)$ એ _____ ને સમકક્ષ

છે.

Options :

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

2. $p \vee q$

3. $p \wedge \sim q$

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

Aptitude Test

Section Id :

416529350

Section Number :

2

Section type :

Online

Mandatory or Optional:

Mandatory

Number of Questions:

8

Sub-Section Number:

1

Sub-Section Id:

416529530

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

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

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

Options :

1. A deaf bearer
2. A dumb waiter
3. A jockey boy
4. A push upper

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

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

Options :

1. Pipes
2. Sanitary ware
3. Wall tiles
4. Wooden tables

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

Options :

1. Kochi
2. Hampi
3. Bijnor
4. Bijapur

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

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

Options :

1. Shiva Temple
2. Kandariya Mahadev Temple
3. Ganesh Temple
4. Krishna Temple

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

Parquet flooring is usually made of which of the following ?

Options :

1. Granite
2. Marble
3. Cement
4. Wood

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. Bahubali
2. Golconda
3. Siladhari
4. Virbanda

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

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

Options :

1. World Trade Centre
2. Mantri Pinnacle
3. Concord Tower
4. U B Tower

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

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

Options :

1. Red Fort
2. Jhansi Fort
3. Gwalior Fort

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

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

Options :

1. Venice
2. Florence
3. Rome
4. Pisa

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

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

Options :

1. New Delhi
2. Nagpur
3. Kanpur
4. Lucknow

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

Cement Plaster is used for which of the following ?

Options :

1. Covering walls
2. Making roofs
3. Making staircases

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

Helical staircases are which one of the following ?

Options :

1. Dog leg staircases
2. Curving staircases
3. Straight flights
4. Staircases with no railings

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

An escalator moves in which of the following directions ?

Options :

1. Only vertically
2. Only horizontally
3. Vertically and Horizontally
4. In steps

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

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

Options :

1. Smaller
2. Larger
3. Darker

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

Zaha Hadid was born in which country amongst the following ?

Options :

1. Iran
2. Iraq
3. Afghanistan
4. Turkistan

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

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

Options :

1. एक बहरा वेटर
2. गूंगा (डम्ब) वेटर
3. एक जॉकी लड़का
4. एक धक्का ऊपरी

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

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

Options :

2. सेनेटरी वेयर (स्वच्छता सम्बन्धी सामान)
3. दीवार की टाइल
4. लकड़ी की मेज

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

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

Options :

1. कोच्चि
2. हम्पी
3. बिजनौर
4. बीजापुर

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

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

Options :

1. शिव मंदिर
2. कंदरिया महादेव मंदिर
3. गणेश मंदिर
4. कृष्णा मंदिर

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

बनता है?

Options :

1. ग्रेनाइट
2. संगमरमर
3. सीमेंट
4. लकड़ी

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

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

Options :

1. बाहुबली
2. गोलकुंडा
3. सिलाधारी
4. वीरबन्दा

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 बेंगलुरु की सबसे ऊँची इमारत है?

Options :

1. विश्व व्यापार केंद्र
2. मन्त्री शिखर
3. कॉनकोर्ड टॉवर
4. यू बी टॉवर

सास बहू मंदिर निम्नलिखित में से किस में स्थित है?

Options :

1. लाल किला
2. झाँसी का किला
3. ग्वालियर का किला
4. जयपुर किला

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

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

Options :

1. वेनिस
2. फ्लोरेंस
3. रोम
4. पीसा

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

लोटस टेम्पल निम्नलिखित में से किस शहर में स्थित है?

Options :

1. नई दिल्ली
2. नागपुर
3. कानपुर
4. लखनऊ

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. दीवारों को ढंकना
2. छत बनाना
3. सीढ़ियाँ बनाना
4. फर्श बनाना

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

चक्करदार सीढ़ियाँ निम्नलिखित में से कौन सी हैं?

Options :

1. डॉग लेग सीढ़ियाँ
2. घूमती सीढ़ियाँ
3. सीधी उड़ान
4. बिना किसी रेलिंग के सीढ़ियाँ

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

एस्केलेटर निम्नलिखित में से किस दिशा में चलता है?

Options :

1. केवल लंबवत
2. केवल क्षैतिज
3. ऊर्ध्वाधर और क्षैतिज रूप से
4. कदमों में

Correct Marks : 4 Wrong Marks : 1

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

Options :

1. छोटे
2. बड़े
3. गहरे
4. संकरे

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

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

Options :

1. ईरान
2. इराक
3. अफगानिस्तान
4. तुर्किस्तान

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

ફક્ત નાના ભાર ઉઠાવવા માટેની નાની લીફ્ટ એ નીચેનામાંથી શાની જેમ ઓળખાય છે?

Options :

1. એક બહેરો ખેપિયો

3. એક જોકી છોકરો

4. એક ઘક્કો ઉપર

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

ભારતીય બજારમાં હિન્દુસ્તાન પેરીવેર (Hindustan Parryware) કયા ઉત્પાદન માટે જાણીતું છે?

Options :

1. પાઈપ

2. સ્વચ્છતા સંબંધીત સામાન

3. દિવાલની લાદી

4. લાકડનાં ટેબલ

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

નીચેનામાંથી વર્લ્ડ હેરીટેજ સાઇટ કઈ છે?

Options :

1. કોચી

2. હમ્પી

3. બીજનોર

4. બીજપુર

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

ખજુરાહો મંદિરોનાં સમૂહમાં સૌથી વધુ પ્રખ્યાત મંદિર નીચેનામાંથી કયું છે?

Options :

2. કંદરિયા મહાદેવ મંદિર
3. ગણેશ મંદિર
4. કૃષ્ણ મંદિર

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

પારકવેટ ફ્લોરીંગ એ સામાન્ય રીતે નીચેનામાંથી શાનું બને છે?

Options :

1. ગ્રેનાઇટ
2. આરસ
3. સિમેન્ટ
4. લાક્કડા

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

હૈદરાબાદનો કિલ્લો નીચેનામાંથી કયા નામથી ઓળખાય છે?

Options :

1. બાહુબલી
2. ગોલકોન્ડા
3. સિતાધારી
4. વિરબન્ડા

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

નીચેનામાંથી કયું મકાન બંગાલુડામાં સૌથી ઊંચું છે?

Options :

2. મન્ત્રી પિનેકલ
3. કોનકર્ડ ટાવર
4. યુ બી ટાવર

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

સાસુ વહુ મંદિર નીચેનામાંથી કયાં આવેલ છે?

Options :

1. લાલ કિલ્લો
2. ઝાંસીનો કિલ્લો
3. આલિયર કિલ્લો
4. જયપુર કિલ્લો

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

ઈટલીનું નીચેનામાંથી કયું શહેર ઢળતા મિનારા માટે જાણીતું છે?

Options :

1. વેનીસ
2. ફ્લોરેન્સ
3. રોમ
4. પીસા

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

નીચેનામાંથી કયા શહેરમાં લોટસ ટેમ્પલ આવેલ છે?

Options :

2. નાગપુર
3. કાનપુર
4. લખનૌ

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

સિમેન્ટ પ્લાસ્ટર નીચેનામાંથી શાને માટે વપરાય છે?

Options :

1. દિવાલોને ઢાંકવા
2. છત બનાવવા
3. સીડી બનાવવા
4. તળિયું (floors) બનાવવા

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

હેલીકલ સીડીઓ નીચેનામાંથી શું છે?

Options :

1. ડોગ લેગ સીડીઓ
2. ધૂમતી સીડીઓ
3. સીધું ઉડયન
4. રેલીંગ વગરની સીડીઓ

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

એસ્કેલેટર નીચેનામાંથી કઈ દિશામાં ચાલે છે?

Options :

2. ફક્ત સમક્ષિતિજ
3. શિરોતંબ અને સમક્ષિતિજ
4. પગથીયા પ્રમાણે

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

સફેદ રંગથી રંગેલી દિવાલો વાળા રૂમ નીચેનામાંથી કયા પ્રકારનાં લાગે છે ?

Options :

1. નાના
2. મોટા
3. ઘેરા (Darker)
4. સાંકડા

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

ઝાહા હદીદ નીચેનામાંથી કયા દેશમાં જન્મેલ ?

Options :

1. ઈરાન
2. ઈરાક
3. અફઘાનિસ્તાન
4. તુર્કિસ્તાન



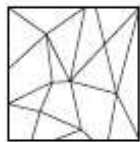
Question Label : Comprehension

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

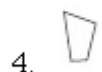
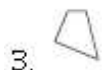
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

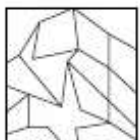


Options :

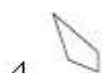
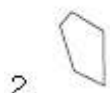
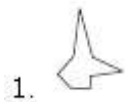


Question Number : 47 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



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



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 :

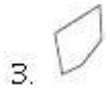
- 1.
- 2.
- 3.
- 4.

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



Options :

- 1.



Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (46 to 50)
Question Label : Comprehension

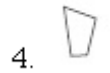
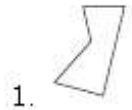
निर्देश : नीचे दी गयी उत्तर आकृतियों में से एक आकृति माप और दिशा में सामान रूप से प्रश्न आकृति में छुपी है। कौन सी सही है, चुनिए।

Sub questions

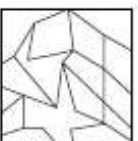
Question Number : 46 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



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 :



2.

3.

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 :

1.

2.

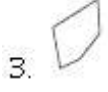
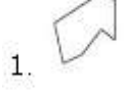
3.

4.

Correct Marks : 4 Wrong Marks : 1



Options :



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

Question Numbers : (46 to 50)

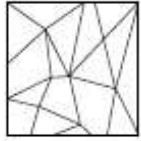
Question Label : Comprehension

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

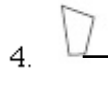
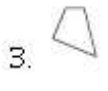
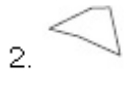
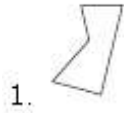
Sub questions

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

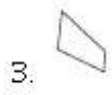
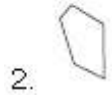


Options :



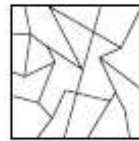


Options :

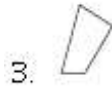
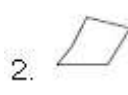


Question Number : 48 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



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



Options :

1.



2.



3.



4.



www

Sub-Section Number:

3

Sub-Section Id:

416529532

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 ?

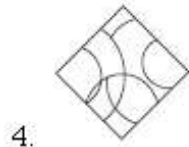
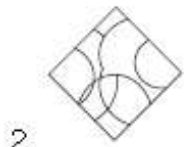
Sub questions

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

Correct Marks : 4 Wrong Marks : 1



Options :

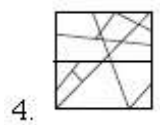
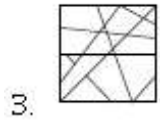
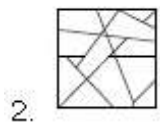
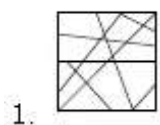


Question Number : 52 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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



?

Options :



1.



2.



3.



4.

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 :



1.



2.



3.

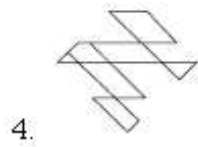
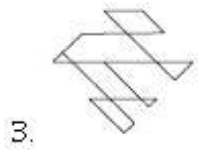
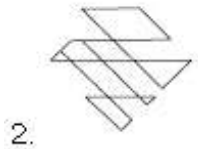
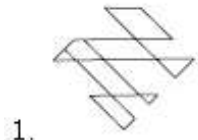


4.

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)

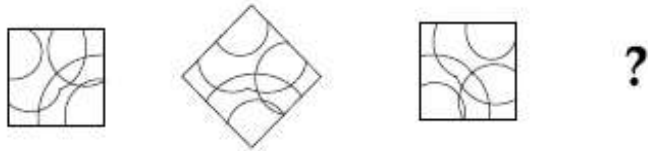
Question Label : Comprehension

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

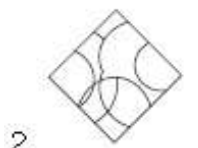
Sub questions

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 :



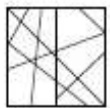
3.



4.

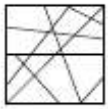
Question Number : 52 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



?

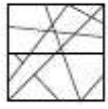
Options :



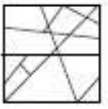
1.



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.

3.



4.



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 :

1.



2.



3.

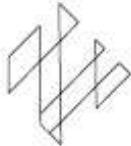


4.



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



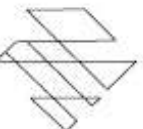
?

Options :

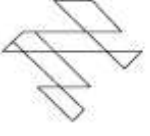
1.



2.



3.



4.

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

Question Numbers : (51 to 55)

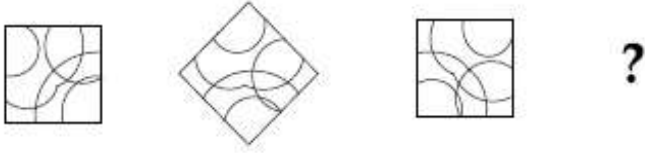
Question Label : Comprehension

સૂચના : પ્રશ્ન આકૃતિમાંની ત્રણ આકૃતિઓની શ્રેણીને જવાબ આકૃતિઓમાંની કઈ આકૃતિ પૂર્ણ કરશે?

Sub questions

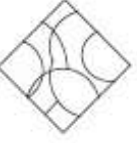
Question Number : 51 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

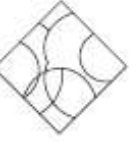


Options :

1.



2.



3.

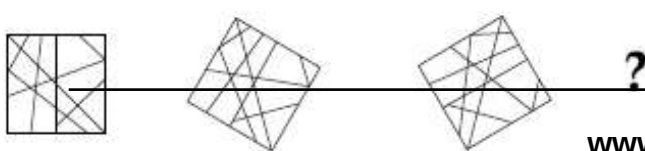


4.

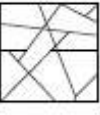


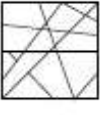
Question Number : 52 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



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. 

3. 

4. 

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 :

1.



2.



3.

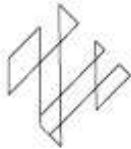


4.



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

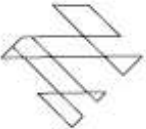
Correct Marks : 4 Wrong Marks : 1



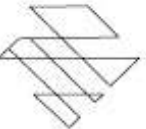
?

Options :

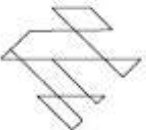
1.



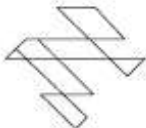
2.



3.



4.



Sub-Section Number:

4

Sub-Section Id:

416529533

Question Shuffling Allowed :

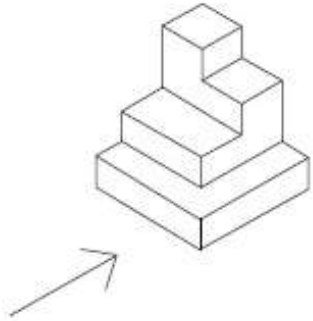
Yes

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

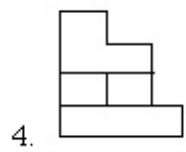
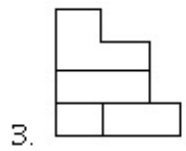
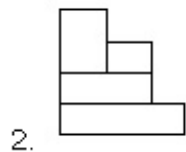
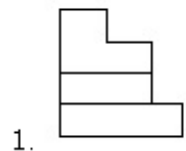
Sub questions

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

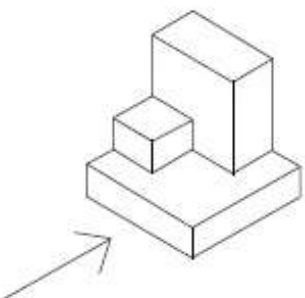


Options :



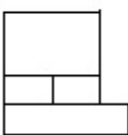
Question Number : 57 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

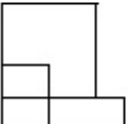
Correct Marks : 4 Wrong Marks : 1

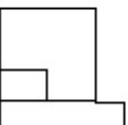


Options :

1. 

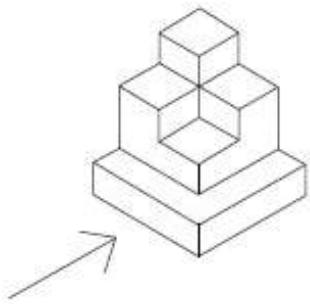
2. 

3. 

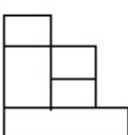
4. 

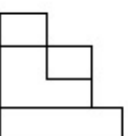
Question Number : 58 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

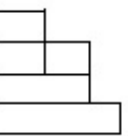
Correct Marks : 4 Wrong Marks : 1

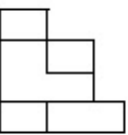


Options :

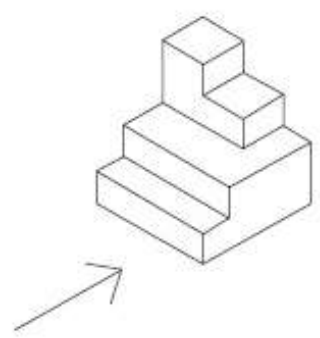
1. 

2. 

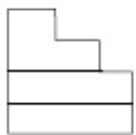
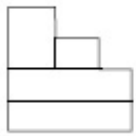
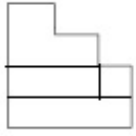
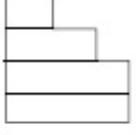
3. 

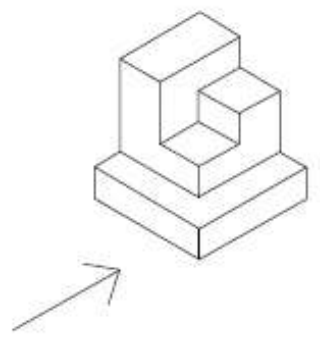
4. 

20

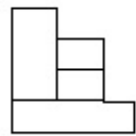


Options :

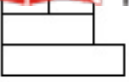
1. 
2. 
3. 
4. 



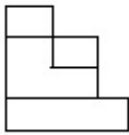
Options :

1. 

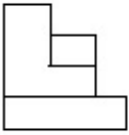
2.



3.



4.



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

Question Numbers : (56 to 60)

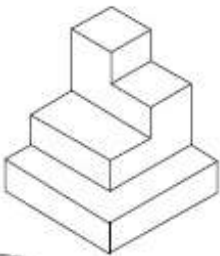
Question Label : Comprehension

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

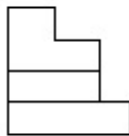
Question Number : 56 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

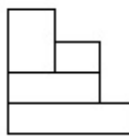


Options :

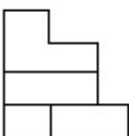
1.



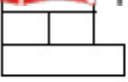
2.



3.

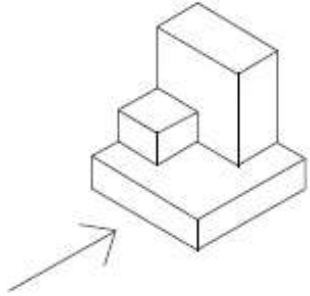


4.



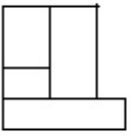
Question Number : 57 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

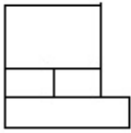


Options :

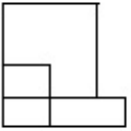
1.



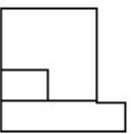
2.



3.

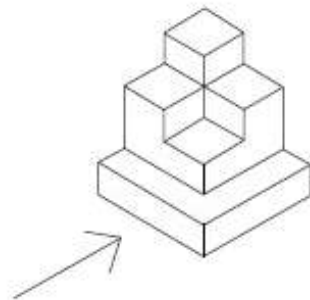


4.



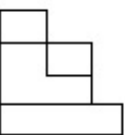
Question Number : 58 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

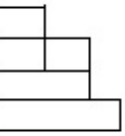
Correct Marks : 4 Wrong Marks : 1

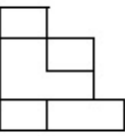


Options :

1. 

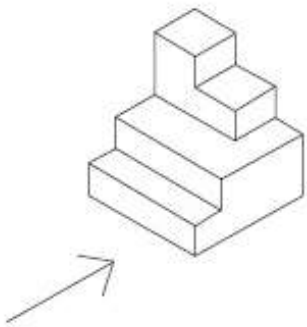
2. 

3. 

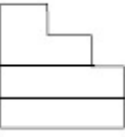
4. 

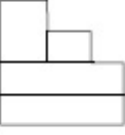
Question Number : 59 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

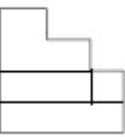
Correct Marks : 4 Wrong Marks : 1



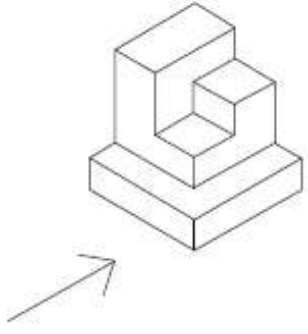
Options :

1. 

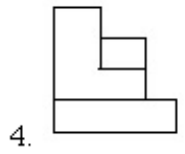
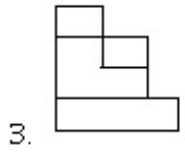
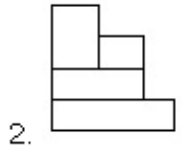
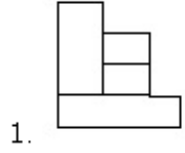
2. 

3. 

4. 



Options :



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

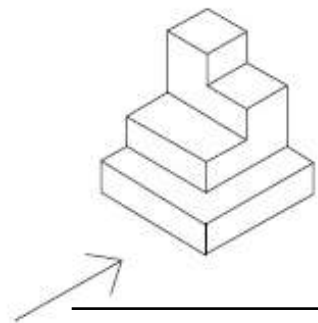
Question Label : Comprehension

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

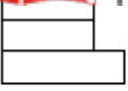
Sub questions

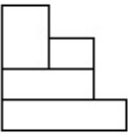
Question Number : 56 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

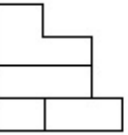
Correct Marks : 4 Wrong Marks : 1

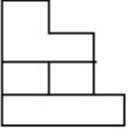


Options :

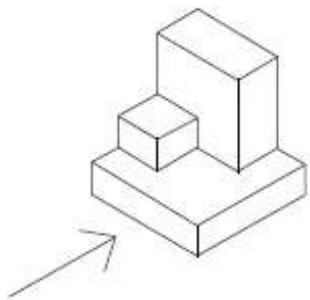
1. 

2. 

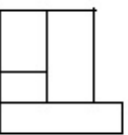
3. 

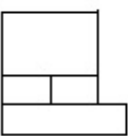
4. 

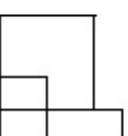
Question Number : 57 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

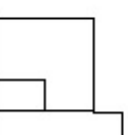


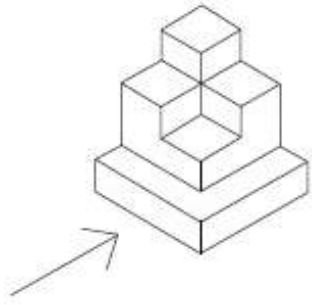
Options :

1. 

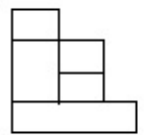
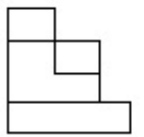
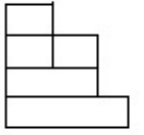
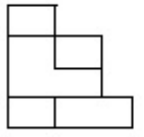
2. 

3. 

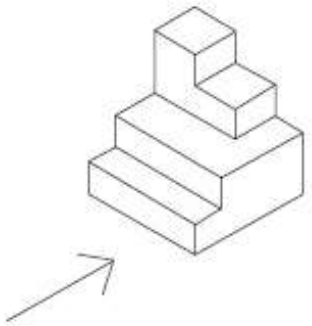
4. 



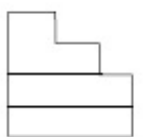
Options :

1. 
2. 
3. 
4. 

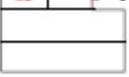
Question Number : 59 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



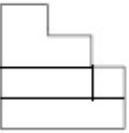
Options :

1. 

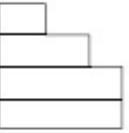
2.



3.

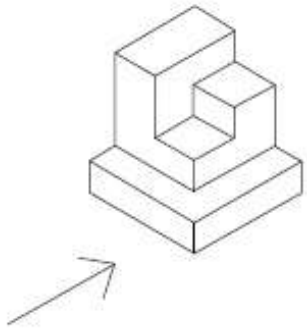


4.



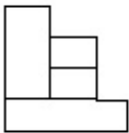
Question Number : 60 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

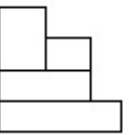


Options :

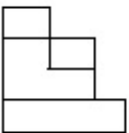
1.



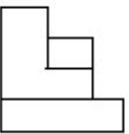
2.



3.



4.



Question Numbers : (61 to 65)

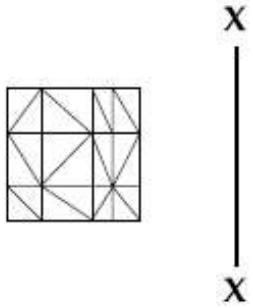
Question Label : Comprehension

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

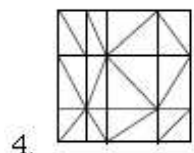
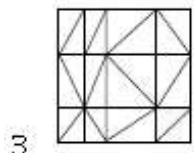
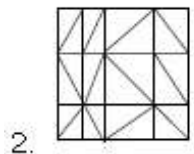
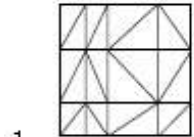
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

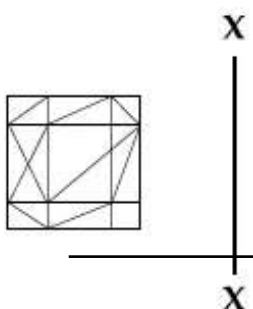


Options :

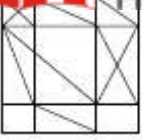


Question Number : 62 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

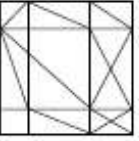
Correct Marks : 4 Wrong Marks : 1



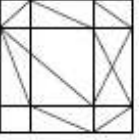
1.



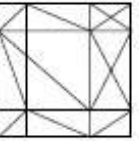
2.



3.



4.



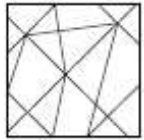
Question Number : 63 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

X

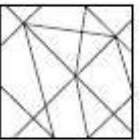


X



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

X
|
X

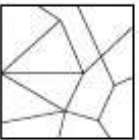


Options :

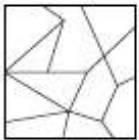
1.



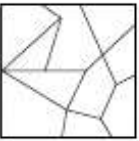
2.



3.



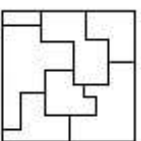
4.



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

X
|
X

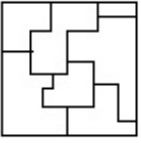


Options :

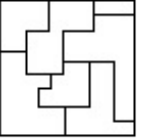
1.



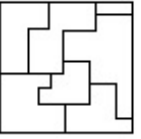
2.



3.



4.



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

Question Numbers : (61 to 65)

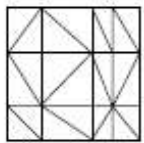
Question Label : Comprehension

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

Sub questions

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

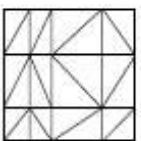
Correct Marks : 4 Wrong Marks : 1



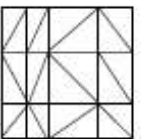
X
|
X

Options :

1.



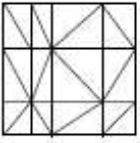
2.



3.

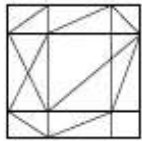


4.



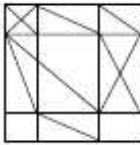
Question Number : 62 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

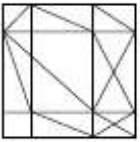


Options :

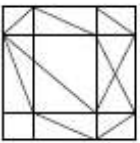
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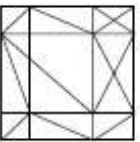
2.



3.

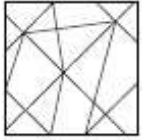


4.



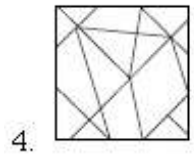
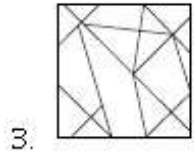
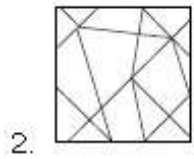
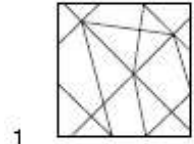
Question Number : 63 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



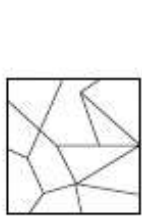
X
|
X

Options :



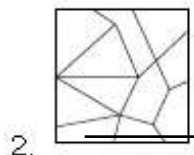
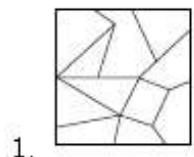
Question Number : 64 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



X
|
X

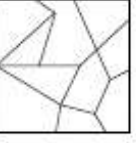
Options :



3.

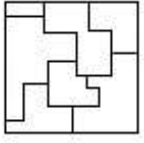


4.



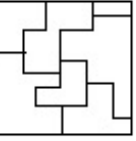
Question Number : 65 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

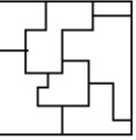


Options :

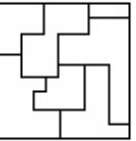
1.



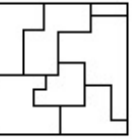
2.



3.



4.



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

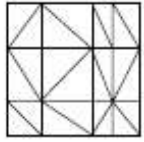
Question Numbers : (61 to 65)

Question Label : Comprehension

સૂચના : જવાબ આકૃતિઓમાંની કઈ આકૃતિ પ્રશ્ન આકૃતિનું X - X ને સાપેક્ષ સાચું દર્પણ પ્રતિબિંબ છે.

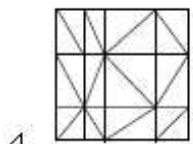
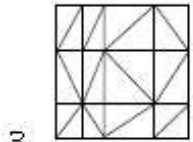
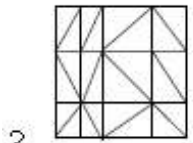
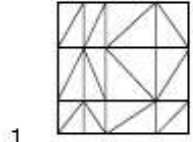
Sub questions

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



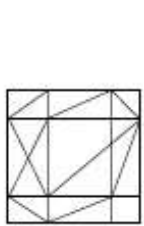
X
|
X

Options :



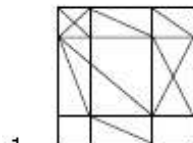
Question Number : 62 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

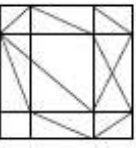


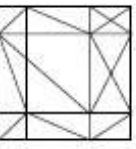
X
|
X

Options :



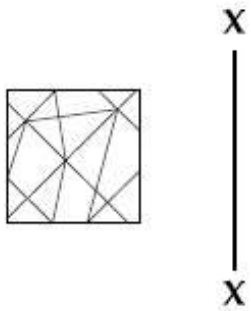
2. 

3. 

4. 

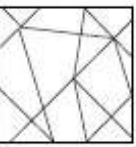
Question Number : 63 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

1. 

2. 

3. 

4. 

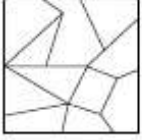
Question Number : 64 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

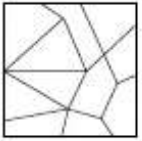


X

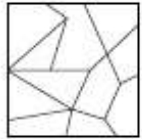
Options :



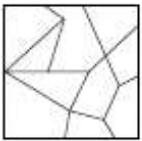
1.



2.



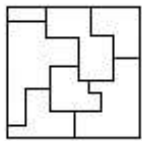
3.



4.

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

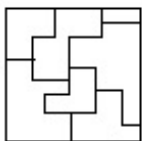
Correct Marks : 4 Wrong Marks : 1



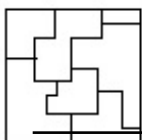
X

X

Options :

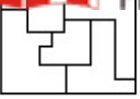


1.

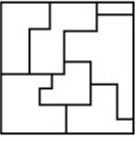


2.

3.



4.



Sub-Section Number: 6
Sub-Section Id: 416529535
Question Shuffling Allowed : Yes

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

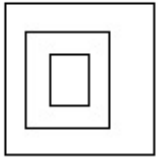
Question Label : Comprehension

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

Sub questions

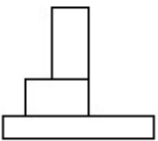
Question Number : 66 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

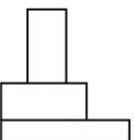


Options :

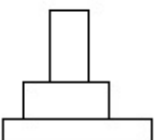
1.

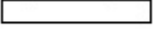


2.



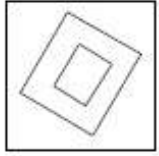
3.



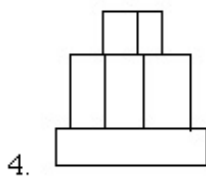
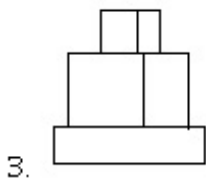
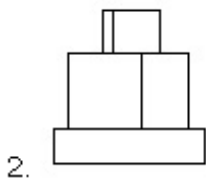
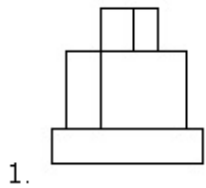
4. 

Question Number : 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

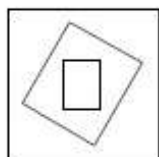


Options :



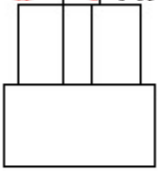
Question Number : 68 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

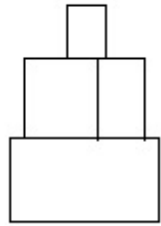


Options :

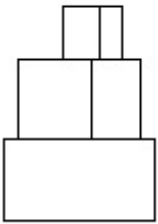
1.



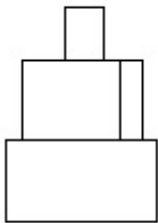
2.



3.

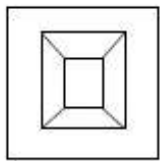


4.



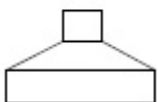
Question Number : 69 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

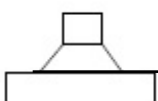
1.



2.



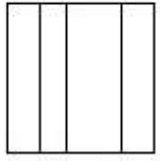
3.



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 :



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

Question Numbers : (66 to 70)

Question Label : Comprehension

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

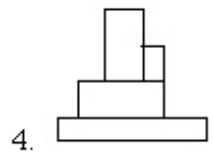
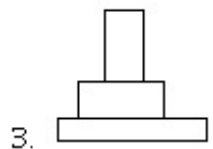
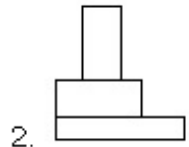
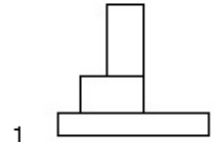
Sub questions

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

Correct Marks : 4 Wrong Marks : 1



Options :

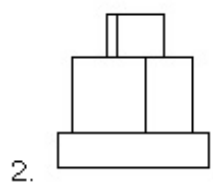
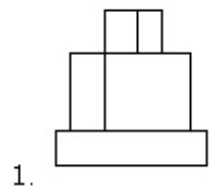


Question Number : 67 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

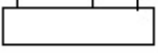
Correct Marks : 4 Wrong Marks : 1



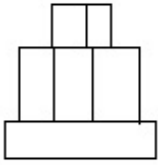
Options :



3.

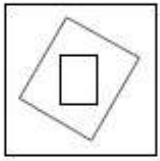


4.



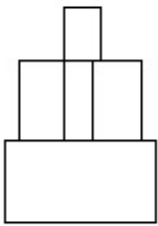
Question Number : 68 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

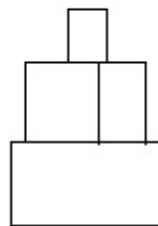


Options :

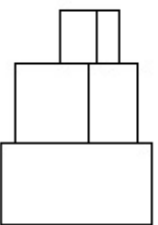
1.



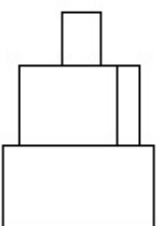
2.

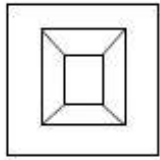


3.

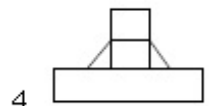
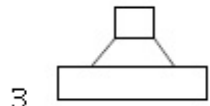
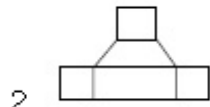
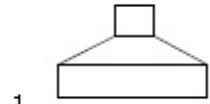


4.



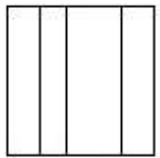


Options :



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 :



3. 4. 

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

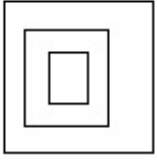
Question Label : Comprehension

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

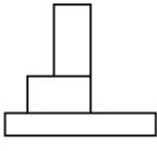
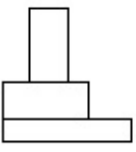
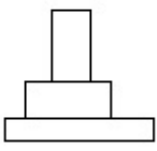
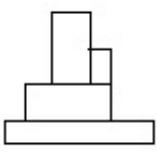
Sub questions

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

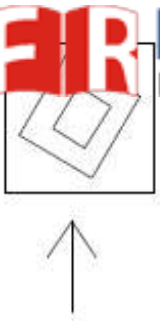


Options :

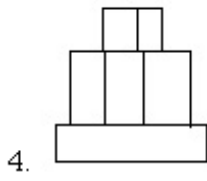
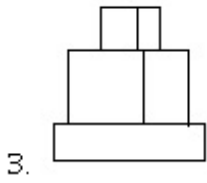
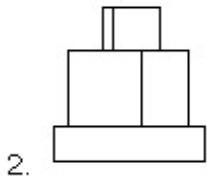
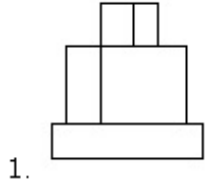
1. 2. 3. 4. 

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

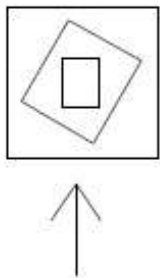
Correct Marks : 4 Wrong Marks : 1



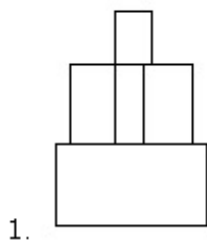
Options :



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



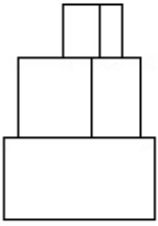
Options :



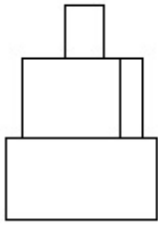
2.



3.

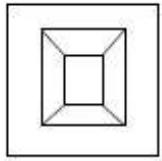


4.



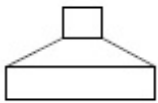
Question Number : 69 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

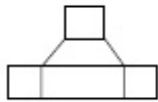


Options :

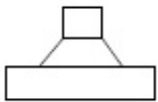
1.



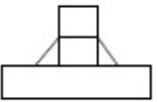
2.



3.

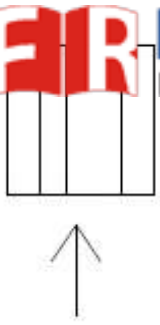


4.

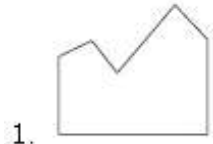


Question Number : 70 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



Sub-Section Number:

Sub-Section Id:

416529536

Question Shuffling Allowed :

Yes

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

Question Numbers : (71 to 75)

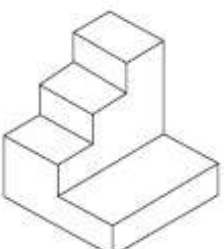
Question Label : Comprehension

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

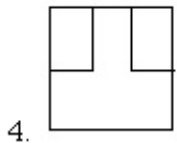
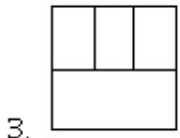
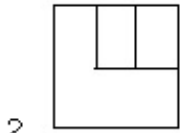
Sub questions

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

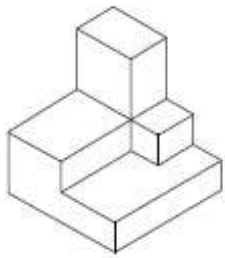


Options :

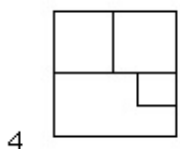
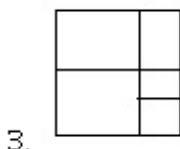
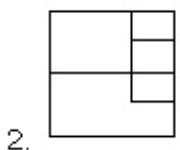
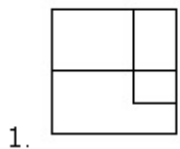


Question Number : 72 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

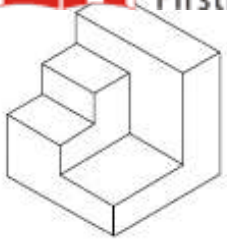
Correct Marks : 4 Wrong Marks : 1



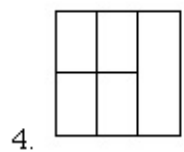
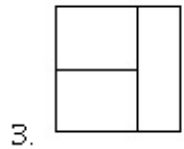
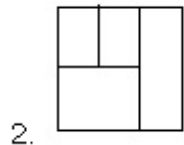
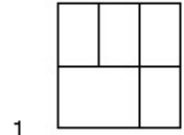
Options :



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

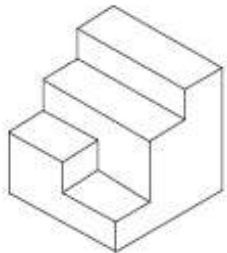


Options :

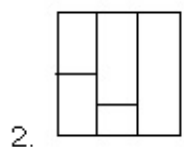
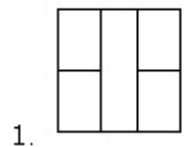


Question Number : 74 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



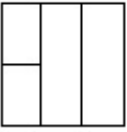
Options :



3.

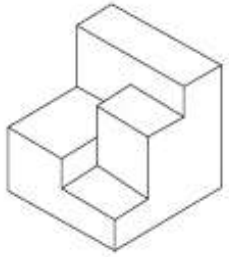


4.



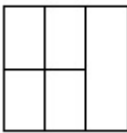
Question Number : 75 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

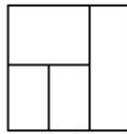


Options :

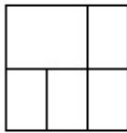
1.



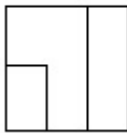
2.



3.



4.



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

Question Numbers : (71 to 75)

Question Label : Comprehension

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

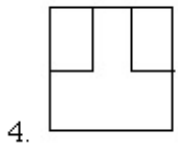
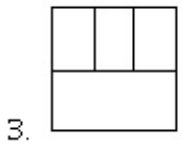
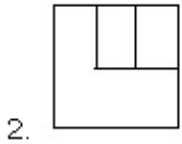
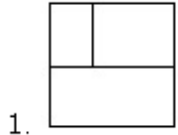
Sub questions

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

Correct Marks : 4 Wrong Marks : 1

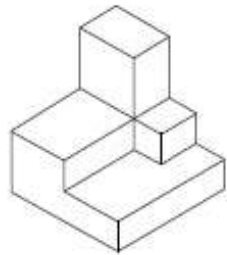


Options :

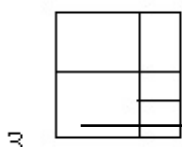
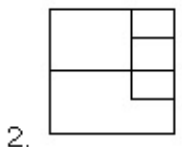
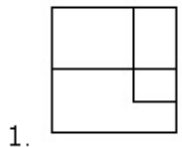


Question Number : 72 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

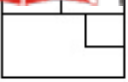
Correct Marks : 4 Wrong Marks : 1



Options :

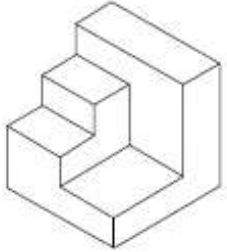


4.



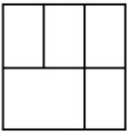
Question Number : 73 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

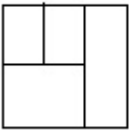


Options :

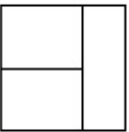
1.



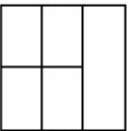
2.



3.

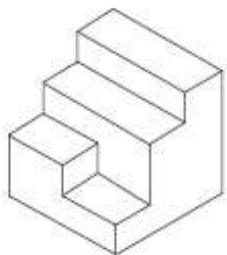


4.



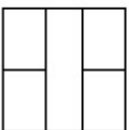
Question Number : 74 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

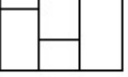
Correct Marks : 4 Wrong Marks : 1

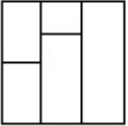


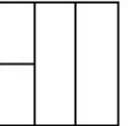
Options :

1.

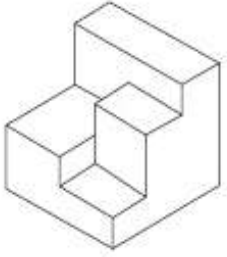


2. 

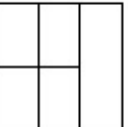
3. 

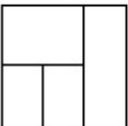
4. 

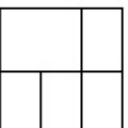
Question Number : 75 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

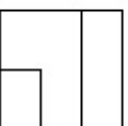


Options :

1. 

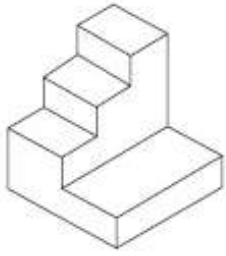
2. 

3. 

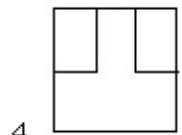
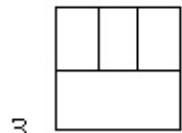
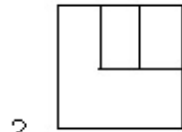
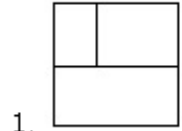
4. 

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

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

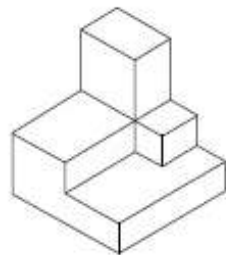


Options :

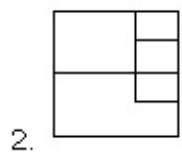
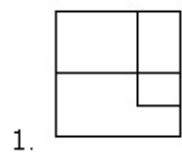


Question Number : 72 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

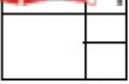
Correct Marks : 4 Wrong Marks : 1



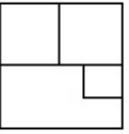
Options :



3.

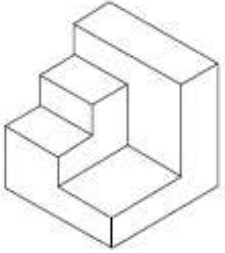


4.



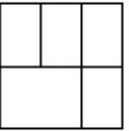
Question Number : 73 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

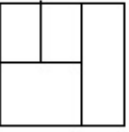


Options :

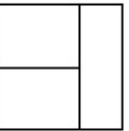
1.



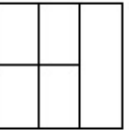
2.



3.

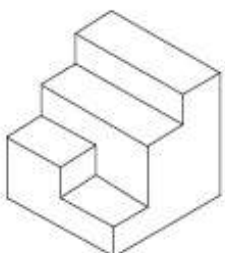


4.



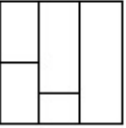
Question Number : 74 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

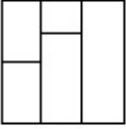
Correct Marks : 4 Wrong Marks : 1

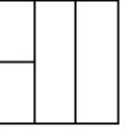


Options :

1. 

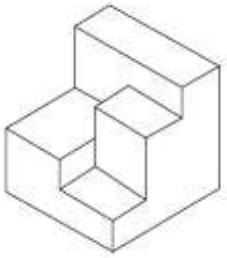
2. 

3. 

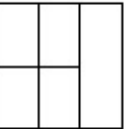
4. 

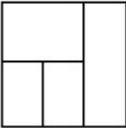
Question Number : 75 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

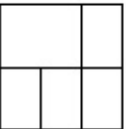
Correct Marks : 4 Wrong Marks : 1



Options :

1. 

2. 

3. 

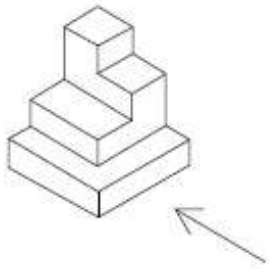
4. 

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

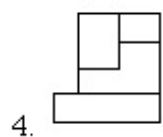
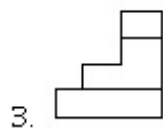
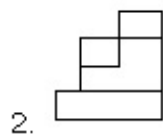
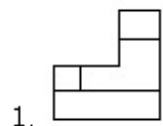
Directions : The 3D figure shows the view of an object. Identify the correct side view looking in the direction of the arrow, from amongst the answer figures.

Sub questions

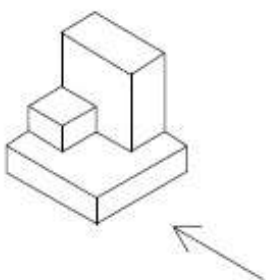
Question Number : 76 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1



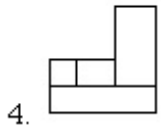
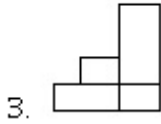
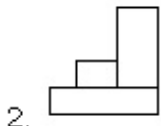
Options :



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

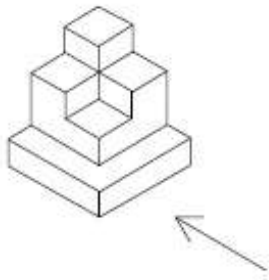


Options :

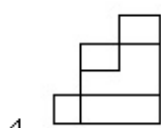
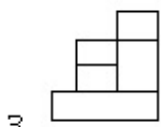
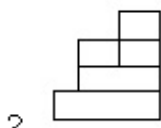
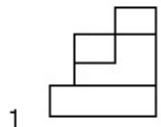


Question Number : 78 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

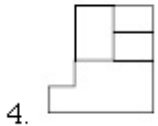
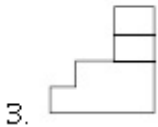
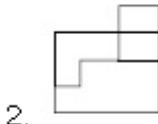
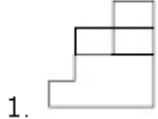


Question Number : 79 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

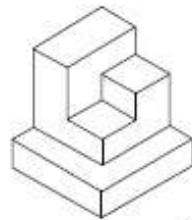


Options :

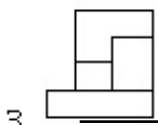
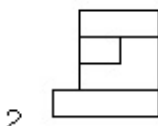
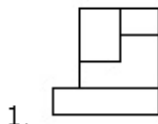


Question Number : 80 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



4.

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

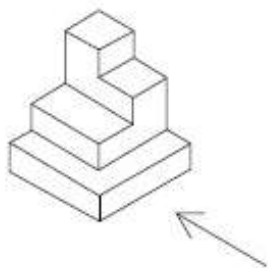
Question Label : Comprehension

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।

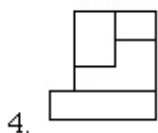
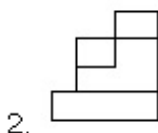
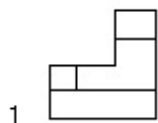
Sub questions

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

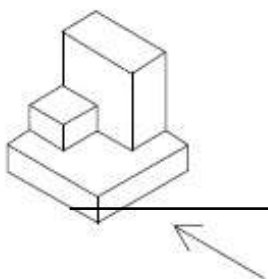


Options :

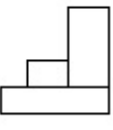


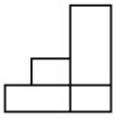
Question Number : 77 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

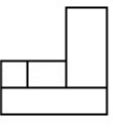
Correct Marks : 4 Wrong Marks : 1



1. 

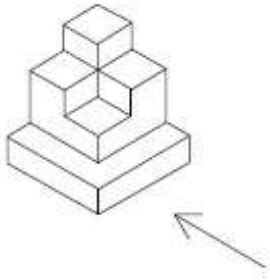
2. 

3. 

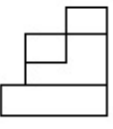
4. 

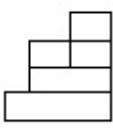
Question Number : 78 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

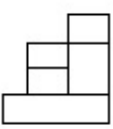
Correct Marks : 4 Wrong Marks : 1

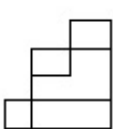


Options :

1. 

2. 

3. 

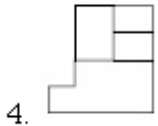
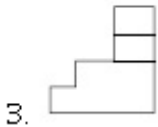
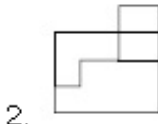
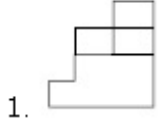
4. 

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

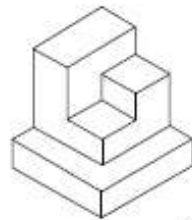


Options :

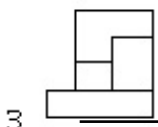
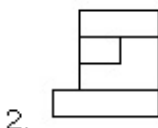
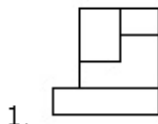


Question Number : 80 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



4.

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

Question Numbers : (76 to 80)

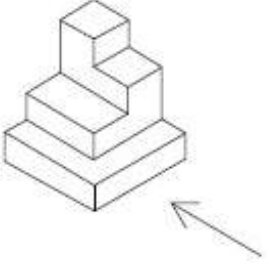
Question Label : Comprehension

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

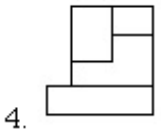
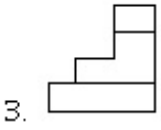
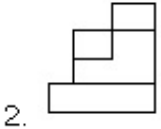
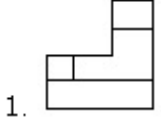
Sub questions

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

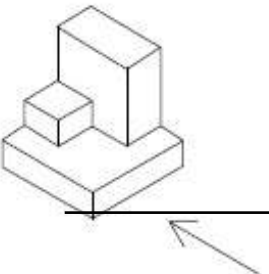


Options :

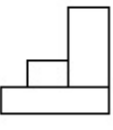


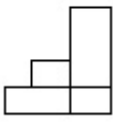
Question Number : 77 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option :
No Option Orientation : Vertical

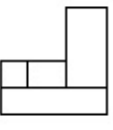
Correct Marks : 4 Wrong Marks : 1



1. 

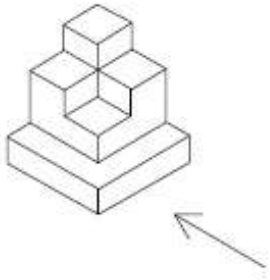
2. 

3. 

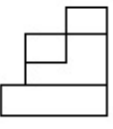
4. 

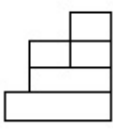
Question Number : 78 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

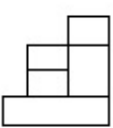
Correct Marks : 4 Wrong Marks : 1

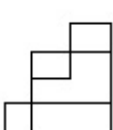


Options :

1. 

2. 

3. 

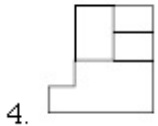
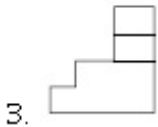
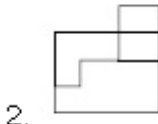
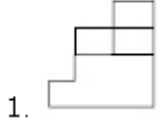
4. 

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

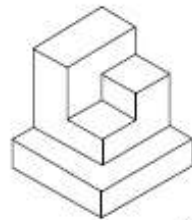


Options :

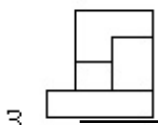
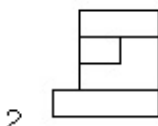
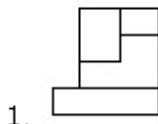


Question Number : 80 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :



4.

Section Id :	Drawing
Section Number :	416529351
Section type :	3
Mandatory or Optional:	Offline
Number of Questions:	Mandatory
Number of Questions to be attempted:	3
Section Marks:	3
Display Number Panel:	70
Group All Questions:	Yes
	No

Sub-Section Number:	1
Sub-Section Id:	416529538
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 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 खींचें। इस फ्रेम में केवल घनक्षेत्रों का उपयोग कर एक सौंदर्य रचना बनाते हैं। ये घनक्षेत्र किसी भी आकार के हो सकते हैं, और इन्हें एक दूसरे के भीतर, अलग-अलग, या अतिव्यापी रखा जा सकता है। इस के पीछे विचार यह है कि फ्रेम में इन आकृतियों की एक सौंदर्य और नेत्र रोमांचक रचना का निर्माण करना है, बिना किसी यथार्थवादी रूप जैसे घर के चेहरे आदि का प्रतिनिधित्व करना। इन आकृतियों और अन्य स्थानों को आपकी पसंद के कुछ रंगों से भरा होना चाहिए ताकि रचना की गुणवत्ता को बढ़ाया जा सके।

20 अंक

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

આ પ્રશ્ન માટે આપવામાં આવેલ ઉત્તરવહીની જગ્યામાં ફેમ બનાવવા માટે હાંસિયા રેખાઓ દોરો. આ ફેમમાં ફક્ત ઘનનો ઉપયોગ કરી સુંદર સંયોજન બનાવો. આ ગમે તે કદનાં અને જૂદા, એક-બીજા ઉપર ફેલાયેલ કે એકબીજાની અંદર હોય શકે. ઘર કે ચહેરા જેવા કોઈપણ વાસ્તવિક રૂપ ન બને તે રીતે સુંદર અને રોમાંચક સંયોજન આ આકારોથી બનાવવું તે ખ્યાલ છે. આ આકારો અને અવકાશ તમને ગમતાં રંગોથી એવી રીતે ભરો કે જેથી સંયોજનની દૃશ્ય ગુણવત્તામાં વધારો થાય.

20 ગુણ

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

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

www.FirstRanker.com

www.FirstRanker.com

20 marks



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

www.FirstRanker.com

निम्न 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



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

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Sub-Section Number:

Sub-Section Id:

416529539

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 square table cloth. Color or shade it to enhance its visual quality.

OR

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

OR

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

Correct Marks : 30

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

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

अथवा

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

अथवा

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

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

Correct Marks : 30

આ પ્રશ્નનાં ઉત્તર માટે આપવામાં આવેલ જગ્યામાં
નીચેનામાંથી એકનો જવાબ આપો. 30 ગુણ

ચોરસ ટેબલક્લોથ માટે યોગ્ય ભાતની ડિઝાઈન કરો અને
તે દોરો. દૃશ્ય ગુણવત્તા વધારવા માટે રંગો અથવા છાયાકર્ન
કરો.

અથવા

વિદ્યાર્થીઓની પાછળથી શિક્ષક તરફ જોતાં દેખાતા વર્ગખંડ
(class room) નું ચિત્ર દોરો.

અથવા

અધિકારી કાર્યાલયમાં બેઠો છે તેનું કલ્પના આધારિત ચિત્ર
દોરો.