

National Testing Agency

Question Paper Name :	B ARCH 12 April 2023 Shift 2 Set 103
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B ARCH

Group Number :	1
Group Id :	36669479
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	400
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Mathematics Section A

Section Id :	366694441
Section Number :	1

Mandatory or Optional :

Mandatory

Number of Questions :

20

Number of Questions to be attempted :

20

Section Marks :

80

Enable Mark as Answered Mark for Review and Clear Response :

Yes

Maximum Instruction Time :

0

Sub-Section Number :

1

Sub-Section Id :

366694441

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 1 Question Id : 3666947699 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If $f(x) = \frac{x^3}{x-1} + \frac{x^3}{x+1}$ and $g(x) = \sqrt{x}$, then $f \circ g : [0, 2] - \{1\} \rightarrow \mathbb{R}$ is :

Options :

36669424431. one-one but not onto

36669424432. one-one and onto

36669424433. onto but not one-one

36669424434. neither one-one nor onto

Question Number : 1 Question Id : 3666947699 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

यदि $f(x) = \frac{x^3}{x-1} + \frac{x^3}{x+1}$ तथा $g(x) = \sqrt{x}$ हैं, तो $f \circ g : [0, 2] - \{1\} \rightarrow \mathbb{R}$

Options :

36669424431. एकैकी है परंतु आच्छादक नहीं है

36669424432. एकैकी तथा आच्छादक है

36669424433. आच्छादक है परंतु एकैकी नहीं है

36669424434. न तो एकैकी न ही आच्छादक है

Question Number : 2 Question Id : 3666947700 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The sum of squares of the values of $\alpha \in \mathbb{R}$ such that the argument of $\frac{\alpha+i}{\alpha-i}$ is 60° ,
 $i = \sqrt{-1}$, is :

Options :

36669424435. 3

36669424436. $\frac{10}{3}$

36669424437. $\frac{11}{3}$

36669424438. 4

Question Number : 2 Question Id : 3666947700 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$\alpha \in \mathbb{R}$ के उन मानों, जिनके लिए $\frac{\alpha+i}{\alpha-i}$, $i = \sqrt{-1}$, के कोणांक 60° है, के वर्गों का योग है।

Options :

36669424435. 3

36669424436. $\frac{10}{3}$

36669424437. $\frac{11}{3}$

36669424438. 4

Question Number : 3 Question Id : 3666947701 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

For the system of equations

$$x + \lambda y - z = 1$$

$$x + 2y + \lambda z = 2$$

$$x + 2y + z = 2,$$

which one of the following is **NOT** correct?

Options :

36669424439. it has unique solution if λ is not a root of the equation $t^2 - 3t + 2 = 0$

36669424440. it has unique solution if λ is not a root of the equation $t^2 - t - 2 = 0$

36669424441. it has infinitely many solutions if $\lambda = 1$

36669424442. it has no solution if $\lambda = 2$

Question Number : 3 Question Id : 3666947701 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

समीकरण निकाय

$$x + \lambda y - z = 1$$

$$x + 2y + \lambda z = 2$$

$$x + 2y + z = 2$$

के लिए निम्न में से कौन सा एक सही नहीं है ?

Options :

36669424439. इसका केवल एक हल है यदि λ समीकरण $t^2 - 3t + 2 = 0$ का एक मूल नहीं है

36669424440. इसका केवल एक हल है यदि λ समीकरण $t^2 - t - 2 = 0$ का एक मूल नहीं है

36669424441. इसके अनंत हल हैं यदि $\lambda = 1$ है

36669424442. इसका कोई हल नहीं है यदि $\lambda = 2$ है

Question Number : 4 Question Id : 3666947702 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If $a_n = (2n^2 - n + 2)(n!)$ then $\sum_{n=1}^{20} a_n$ is equal to :

Options :

36669424443. $37(20!) - 1$

36669424444. $37(20!) + 1$

36669424445. $39(21!) + 1$

36669424446. $39(21!) - 1$

Question Number : 4 Question Id : 3666947702 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि $a_n = (2n^2 - n + 2)(n!)$ है, तो $\sum_{n=1}^{20} a_n$ बराबर है

Options :

36669424443. $37(20!) - 1$

36669424444. $37(20!) + 1$

36669424445. $39(21!) + 1$

36669424446. $39(21!) - 1$

Question Number : 5 Question Id : 3666947703 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

$$\lim_{x \rightarrow 0^+} \frac{1}{\sqrt{x}} \left(\frac{1}{\sin x} - \frac{1}{x} \right)$$

Options :

36669424447. is equal to 0

36669424448. is equal to $\frac{1}{5}$

36669424449. is equal to 1

36669424450. does not exist

Question Number : 5 Question Id : 3666947703 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$$\lim_{x \rightarrow 0^+} \frac{1}{\sqrt{x}} \left(\frac{1}{\sin x} - \frac{1}{x} \right)$$

Options :

36669424447. 0 के बराबर है

36669424448. $\frac{1}{5}$ के बराबर है

36669424449. 1 के बराबर है

36669424450. का अस्तित्व नहीं है

Question Number : 6 Question Id : 3666947704 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $x = x(t)$ be the solution curve of the differential equation $\frac{dx}{dt} = -kx$, and

$x(0)=100$, $x\left(\frac{1}{2}\right) = 80$. If $x(t_\alpha)=5$, then t_α is equal to :

Options :

36669424451. $\frac{\log_e 5 + \log_e 4}{2(\log_e 5 - \log_e 4)}$

36669424452. $\frac{\log_e 5 + \log_e 4}{\log_e 5 - \log_e 4}$

36669424453. $\frac{\log_e 5 - \log_e 4}{2(\log_e 5 + \log_e 4)}$

36669424454. $\frac{\log_e 5 - \log_e 4}{\log_e 5 + \log_e 4}$

Question Number : 6 Question Id : 3666947704 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना अवकल समीकरण $\frac{dx}{dt} = -kx$, $x(0)=100$, $x\left(\frac{1}{2}\right) = 80$ का हल वक्र $x = x(t)$ है ।

यदि $x(t_\alpha)=5$ है, तो t_α बराबर है

Options :

36669424451. $\frac{\log_e 5 + \log_e 4}{2(\log_e 5 - \log_e 4)}$

36669424452. $\frac{\log_e 5 + \log_e 4}{\log_e 5 - \log_e 4}$

36669424453. $\frac{\log_e 5 - \log_e 4}{2(\log_e 5 + \log_e 4)}$

36669424454. $\frac{\log_e 5 - \log_e 4}{\log_e 5 + \log_e 4}$

Question Number : 7 Question Id : 3666947705 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The slope of the tangent to the curve $y = y(x) = \int_{\sin^{-1}(x)}^{\cos^{-1}(x)} \sqrt{1 + 4\sin^2 t} dt, 0 \leq x \leq 1$ at the point $\left(\frac{1}{\sqrt{2}}, 0\right)$ on the curve is :

Options :

36669424455. $-2\sqrt{6}$

36669424456. $2\sqrt{6}$

36669424457. $-4\sqrt{3}$

36669424458. $4\sqrt{3}$

Question Number : 7 Question Id : 3666947705 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

वक्र $y = y(x) = \int_{\sin^{-1}(x)}^{\cos^{-1}(x)} \sqrt{1+4\sin^2 t} \, dt, 0 \leq x \leq 1$ के बिंदु $\left(\frac{1}{\sqrt{2}}, 0\right)$ पर स्पर्श रेखा की प्रवणता है

Options :

36669424455. $-2\sqrt{6}$

36669424456. $2\sqrt{6}$

36669424457. $-4\sqrt{3}$

36669424458. $4\sqrt{3}$

Question Number : 8 Question Id : 3666947706 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $\alpha, \beta, \gamma \left(0 < \alpha, \beta, \gamma < \frac{\pi}{2}\right)$ be the angles between non-zero vectors $\vec{a}$ and $\vec{b}$, $\vec{b}$ and $\vec{c}$, $\vec{c}$ and $\vec{a}$ respectively. If θ is the angle that the vector $\vec{a}$ makes with the plane containing $\vec{b}$ and $\vec{c}$, then

Options :

36669424459. $\cos^2 \theta = \operatorname{cosec}^2 \beta (\cos^2 \alpha + \cos^2 \gamma - 2 \cos \alpha \cos \beta \cos \gamma)$

36669424460. $\cos^2 \theta = \sec^2 \beta (\cos^2 \alpha + \cos^2 \gamma + 2 \cos \alpha \cos \beta \cos \gamma)$

36669424461. $\sin^2 \theta = \operatorname{cosec}^2 \beta (\cos^2 \alpha + \cos^2 \gamma - 2 \cos \alpha \cos \beta \cos \gamma)$

36669424462. $\sin^2 \theta = \sec^2 \beta (\cos^2 \alpha + \cos^2 \gamma + 2 \cos \alpha \cos \beta \cos \gamma)$

Question Number : 8 Question Id : 3666947706 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना शून्येत्तर सदिशों $\vec{a}$ तथा $\vec{b}$, $\vec{b}$ तथा $\vec{c}$, $\vec{c}$ तथा $\vec{a}$ के बीच कोण क्रमशः

$\alpha, \beta, \gamma \left(0 < \alpha, \beta, \gamma < \frac{\pi}{2} \right)$ हैं। यदि समतल, जिसमें सदिश $\vec{b}$ तथा $\vec{c}$ स्थित हैं, से सदिश $\vec{a}$

कोण θ बनाता है, तो

Options :

36669424459. $\cos^2 \theta = \operatorname{cosec}^2 \beta (\cos^2 \alpha + \cos^2 \gamma - 2 \cos \alpha \cos \beta \cos \gamma)$

36669424460. $\cos^2 \theta = \sec^2 \beta (\cos^2 \alpha + \cos^2 \gamma + 2 \cos \alpha \cos \beta \cos \gamma)$

36669424461. $\sin^2 \theta = \operatorname{cosec}^2 \beta (\cos^2 \alpha + \cos^2 \gamma - 2 \cos \alpha \cos \beta \cos \gamma)$

36669424462. $\sin^2 \theta = \sec^2 \beta (\cos^2 \alpha + \cos^2 \gamma + 2 \cos \alpha \cos \beta \cos \gamma)$

Question Number : 9 Question Id : 3666947707 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The domain of the function

$f(x) = \sin^{-1} (\log_2 ((x-1)(x-2)))$ is :

Options :

36669424463. $[0, 3]$

36669424464. $\left[0, \frac{3-\sqrt{3}}{2} \right] \cup \left[\frac{3+\sqrt{3}}{2}, 3 \right]$

36669424465.

$$\left(\frac{3-\sqrt{3}}{2}, 1\right) \cup \left(2, \frac{3+\sqrt{3}}{2}\right)$$

$$36669424466. \left[0, \frac{3-\sqrt{6}}{2}\right] \cup \left[\frac{3+\sqrt{6}}{2}, 3\right]$$

Question Number : 9 Question Id : 3666947707 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

फलन $f(x) = \sin^{-1}(\log_2((x-1)(x-2)))$ का प्रांत है

Options :

$$36669424463. [0, 3]$$

$$36669424464. \left[0, \frac{3-\sqrt{3}}{2}\right] \cup \left[\frac{3+\sqrt{3}}{2}, 3\right]$$

$$36669424465. \left(\frac{3-\sqrt{3}}{2}, 1\right) \cup \left(2, \frac{3+\sqrt{3}}{2}\right)$$

$$36669424466. \left[0, \frac{3-\sqrt{6}}{2}\right] \cup \left[\frac{3+\sqrt{6}}{2}, 3\right]$$

Question Number : 10 Question Id : 3666947708 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let α and β be the roots of the equation $2x^2 - 5x - 1 = 0$. For $n \in \mathbb{N}$, let $P_n = \alpha^n + \beta^n$.

Then $\frac{2P_{11}(2P_{10} - 5P_9)}{P_8(5P_{10} + P_9)}$ is equal to :

Options :

36669424467. $-\frac{1}{2}$

36669424468. $\frac{1}{2}$

36669424469. -1

36669424470. 1

Question Number : 10 Question Id : 3666947708 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना समीकरण $2x^2 - 5x - 1 = 0$ के मूल α तथा β हैं। $n \in \mathbb{N}$, के लिए, माना $P_n = \alpha^n + \beta^n$ है।

तो $\frac{2P_{11}(2P_{10} - 5P_9)}{P_8(5P_{10} + P_9)}$ बराबर है

Options :

36669424467. $-\frac{1}{2}$

36669424468. $\frac{1}{2}$

36669424469. -1

Question Number : 11 Question Id : 3666947709 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the image of the point $(1, 1, 2)$ in the plane $2x - y + z + 3 = 0$ is the point P, then the distance of P from origin is

Options :

36669424471. $2\sqrt{3}$

36669424472. $3\sqrt{2}$

36669424473. 4

36669424474. 6

Question Number : 11 Question Id : 3666947709 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि बिंदु $(1, 1, 2)$ का समतल $2x - y + z + 3 = 0$ में प्रतिबिंब P है, तो P की मूल बिंदु से दूरी है

Options :

36669424471. $2\sqrt{3}$

36669424472. $3\sqrt{2}$

36669424474. 6

Question Number : 12 Question Id : 3666947710 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

For three non-coplanar vectors $\vec{a}, \vec{b}, \vec{c}$, if $(\vec{b} + \vec{c}) \cdot \{(\vec{c} + \vec{a}) \times (\vec{a} + \vec{b})\} = \alpha [\vec{a} \ \vec{b} \ \vec{c}]$ and $(\vec{a} + \vec{b}) \cdot \{(\vec{b} + \vec{c}) \times (\vec{a} + \vec{b} + \vec{c})\} = \beta [\vec{a} \ \vec{b} \ \vec{c}]$, then $\alpha + \beta$ is equal to :

Options :

36669424475. - 3

36669424476. - 1

36669424477. 1

36669424478. 3

Question Number : 12 Question Id : 3666947710 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

तीन सदिशों $\vec{a}, \vec{b}, \vec{c}$ जो एक तल में नहीं है के लिए, यदि $(\vec{b} + \vec{c}) \cdot \{(\vec{c} + \vec{a}) \times (\vec{a} + \vec{b})\} = \alpha [\vec{a} \ \vec{b} \ \vec{c}]$ तथा $(\vec{a} + \vec{b}) \cdot \{(\vec{b} + \vec{c}) \times (\vec{a} + \vec{b} + \vec{c})\} = \beta [\vec{a} \ \vec{b} \ \vec{c}]$ हैं, तो $\alpha + \beta$ बराबर है ।

Options :

36669424475. - 3

36669424477. 1

36669424478. 3

Question Number : 13 Question Id : 3666947711 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If $I(x) = \int \frac{dx}{1 - 2 \sin^2 x \cos^2 x}$, then $\tan \left(\sqrt{2} \left(I \left(\frac{\pi}{8} \right) - I(0) \right) \right)$ is equal to :

Options :

36669424479. $\frac{1}{\sqrt{2}}$

36669424480. 1

36669424481. $\sqrt{2}$

36669424482. 2

Question Number : 13 Question Id : 3666947711 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि $I(x) = \int \frac{dx}{1 - 2 \sin^2 x \cos^2 x}$ है, तो $\tan \left(\sqrt{2} \left(I \left(\frac{\pi}{8} \right) - I(0) \right) \right)$ बराबर है

Options :

36669424479.

36669424480. 1

36669424481. $\sqrt{2}$

36669424482. 2

Question Number : 14 Question Id : 3666947712 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let X have a binomial distribution B (6, p). If the sum of the mean and the

variance of X is $\frac{21}{8}$, then $\frac{P(2 \leq X < 4)}{P(4 < X < 6)}$ is equal to :

Options :

36669424483. 65

36669424484. 195

36669424485. $\frac{195}{2}$

36669424486. $\frac{225}{2}$

Question Number : 14 Question Id : 3666947712 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

माना X का द्विपद बंटन $B(6, p)$ है। यदि X के माध्य और प्रसरण का योग $\frac{21}{8}$ है, तो

$$\frac{P(2 \leq X < 4)}{P(4 < X < 6)} \text{ बराबर है}$$

Options :

36669424483. 65

36669424484. 195

36669424485. $\frac{195}{2}$

36669424486. $\frac{225}{2}$

Question Number : 15 Question Id : 3666947713 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the statement

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

is a tautology, then $*$ is :

Options :

36669424487. $\wedge$

36669424488. $\vee$

36669424489. $\Rightarrow$

36669424490. $\Leftrightarrow$

Question Number : 15 Question Id : 3666947713 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि कथन

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

एक पुनरुक्ति है, तो * है

Options :

36669424487. $\wedge$

36669424488. $\vee$

36669424489. $\Rightarrow$

36669424490. $\Leftrightarrow$

Question Number : 16 Question Id : 3666947714 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the circles $x^2 + y^2 - 2x - 4y + 4 = 0$ and $x^2 + y^2 - 6x - 10y + 20 + 2\sqrt{13} = 0$ touch each other at the point (a, b) , then $(3a - 2b)^2$ is equal to :

Options :

36669424491. 1

36669424492. 4

36669424493. 9

Question Number : 16 Question Id : 3666947714 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि वृत्त $x^2 + y^2 - 2x - 4y + 4 = 0$ तथा $x^2 + y^2 - 6x - 10y + 20 + 2\sqrt{13} = 0$ एक दूसरे को बिंदु (a, b) पर स्पर्श करते हैं, तो $(3a-2b)^2$ बराबर है

Options :

36669424491. 1

36669424492. 4

36669424493. 9

36669424494. 13

Question Number : 17 Question Id : 3666947715 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the angle between the line $l: \frac{x-1}{2} = \frac{y+1}{1} = \frac{z-2}{2}$ and the plane

$P: \lambda x + 4y - 7 = 0, \lambda \neq 0$, is $\operatorname{cosec}^{-1}\left(\frac{3}{2}\right)$, then the sum of co-ordinates of the point where line l crosses the plane P is :

Options :

36669424495. -33

36669424496. -2

36669424498. 6

Question Number : 17 Question Id : 3666947715 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि रेखा $l: \frac{x-1}{2} = \frac{y+1}{1} = \frac{z-2}{2}$ तथा समतल $P: \lambda x + 4y - 7 = 0, \lambda \neq 0$, के बीच का

कोण $\operatorname{cosec}^{-1}\left(\frac{3}{2}\right)$ है, तो उस बिंदु, जिस पर रेखा l समतल P को मिलती है, के निर्देशांकों का योग है

Options :

36669424495. -33

36669424496. -2

36669424497. 3

36669424498. 6

Question Number : 18 Question Id : 3666947716 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let three distinct normal be drawn to the parabola $y^2 + 4y - 6x - 8 = 0$ from a point (a, b) on the axis of the parabola. Then :

Options :

36669424499. $a \in (1, \infty)$ and $b = -2$

36669424501. $a \in (1, \infty)$ and $b = 2$ 36669424502. $a \in (2, \infty)$ and $b = 2$ **Question Number : 18 Question Id : 3666947716 Question Type : MCQ Option Shuffling : Yes Is****Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum****Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1**

माना परवलय $y^2 + 4y - 6x - 8 = 0$ के अक्ष पर एक बिंदु (a, b) से परवलय पर तीन भिन्न अभिलंब डाले जाते हैं। तो

Options :36669424499. $a \in (1, \infty)$ तथा $b = -2$ 36669424500. $a \in (0, \infty)$ तथा $b = -2$ 36669424501. $a \in (1, \infty)$ तथा $b = 2$ 36669424502. $a \in (2, \infty)$ तथा $b = 2$ **Question Number : 19 Question Id : 3666947717 Question Type : MCQ Option Shuffling : Yes Is****Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum****Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1**

Given ${}^nC_r = \frac{n!}{r!(n-r)!}$, $0 \leq r \leq n$ and n is a non-negative integer. Then a

possible value of k for which the equality

$${}^{50}C_{k-1} + \sum_{r=1}^{50} {}^{100-r}C_{k-2} = {}^{100}C_{49} \text{ holds, is}$$

Options :

36669424503. 40

36669424504. 49

36669424505. 50

36669424506. 25

Question Number : 19 Question Id : 3666947717 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिया गया है कि ${}^nC_r = \frac{n!}{r!(n-r)!}$, $0 \leq r \leq n$ तथा n एक ऋणैतर पूर्णांक है। तो k

का एक संभव मान, जिसके लिए ${}^{50}C_{k-1} + \sum_{r=1}^{50} {}^{100-r}C_{k-2} = {}^{100}C_{49}$ है, है

Options :

36669424503. 40

36669424504. 49

36669424505. 50

Question Number : 20 Question Id : 3666947718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If an unbiased die, marked with $-3, -2, -1, 0, 1, 2$ on its faces, is thrown four times, then the probability of getting -1 as the sum of outputs is :

Options :

36669424507. $\frac{7}{81}$

36669424508. $\frac{35}{324}$

36669424509. $\frac{8}{81}$

36669424510. $\frac{26}{243}$

Question Number : 20 Question Id : 3666947718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि एक अनभिन्नत पासे, जिसके फलकों पर $-3, -2, -1, 0, 1, 2$ लिखा है, को चार बार फेंका जाता है, तो फलकों पर प्राप्त संख्याओं का योग -1 होने की प्रायिकता है

Options :

36669424507. $\frac{7}{81}$

36669424508. $\frac{35}{324}$

36669424509. $\frac{8}{81}$

36669424510. $\frac{26}{243}$

Mathematics Section B

Section Id :	366694442
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	5
Section Marks :	20
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	366694442
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 21 Question Id : 3666947719 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$(\sin 5^\circ \sin 55^\circ \sin 65^\circ \sin 75^\circ)^{-1}$ is equal to _____.

Evaluation Required For SA : Yes**Show Word Count : Yes****Answers Type : Equal****Text Areas : PlainText****Possible Answers :**

10

Question Number : 21 Question Id : 3666947719 Question Type : SA Calculator : None**Response Time : N.A Think Time : N.A Minimum Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1** $(\sin 5^\circ \sin 55^\circ \sin 65^\circ \sin 75^\circ)^{-1}$ बराबर _____ है।**Response Type : Numeric****Evaluation Required For SA : Yes****Show Word Count : Yes****Answers Type : Equal****Text Areas : PlainText****Possible Answers :**

10

Question Number : 22 Question Id : 3666947720 Question Type : SA Calculator : None**Response Time : N.A Think Time : N.A Minimum Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1**

If the shortest distance between the lines

 $3x + 2y - 4z - 5 = 0 = 5x - 7y - 17z + 2$ and $\frac{x-2}{3} = \frac{y-1}{-5} = \frac{z+1}{2}$ is $\frac{10}{\sqrt{k}}$, then k is

equal to _____.

Response Type : Numeric**Evaluation Required For SA : Yes****Show Word Count : Yes****Answers Type : Equal**

Possible Answers :

10

Question Number : 22 Question Id : 3666947720 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि रेखाओं $3x + 2y - 4z - 5 = 0 = 5x - 7y - 17z + 2$ तथा $\frac{x-2}{3} = \frac{y-1}{-5} = \frac{z+1}{2}$ के बीच

न्यूनतम दूरी $\frac{10}{\sqrt{k}}$ है, तो k बराबर _____ है।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 23 Question Id : 3666947721 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

For $p \in \mathbb{N}$, if the angle between pair of tangents drawn to the ellipse $3x^2 + 2y^2 = 5$ from the point $(1, p)$ is $\tan^{-1}\left(\frac{12}{\sqrt{5}}\right)$, then the distance of the vertex of the parabola $y = x^2 - px + p + 1$ from the point $(-7, 8)$ is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

Question Number : 23 Question Id : 3666947721 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$p \in \mathbb{N}$ के लिए, यदि बिंदु $(1, p)$ से दीर्घवृत्त $3x^2 + 2y^2 = 5$ पर खींची गई दो स्पर्श रेखाओं के बीच कोण $\tan^{-1}\left(\frac{12}{\sqrt{5}}\right)$ है, तो परवलय $y = x^2 - px + p + 1$ के शीर्ष की बिंदु $(-7, 8)$ से दूरी बराबर _____ है ।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 24 Question Id : 3666947722 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let P be a polygon with n vertices such that the line segment joining any two points of P remains entirely in P . If the number of diagonals of P is $n + 25$, then n is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 24 Question Id : 3666947722 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मान n शीर्षों का एक बहुभुज इस प्रकार है कि P के किसी भी दो बिंदुओं को मिलाने वाला रेखाखंड भी P में है। यदि P के विकर्णों की संख्या $n+25$ है, तो n बराबर है _____।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 25 Question Id : 3666947723 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $f(x)$ be a polynomial of degree 5 such that $\lim_{x \rightarrow 0} \frac{f(x)}{x^2} = 1$,

$f(-1) = -1$, $f(x) - 14x$ has an extrema at $x = 1$ and $f(x) - 10x$ has an extrema at $x = -1$. Then $f(2)$ is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 25 Question Id : 3666947723 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना $f(x)$, घात 5 का एक बहुपद है जिसके लिए $\lim_{x \rightarrow 0} \frac{f(x)}{x^2} = 1$ है, $f(-1) = -1$ है,

$f(x) - 14x$ का एक चरम बिंदु $x = 1$ है तथा $f(x) - 10x$ का एक चरम बिंदु $x = -1$ है, तो $f(2)$ बराबर _____ है।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 26 **Question Id :** 3666947724 **Question Type :** SA **Calculator :** None

Response Time : N.A **Think Time :** N.A **Minimum Instruction Time :** 0

Correct Marks : 4 **Wrong Marks :** 1

The number of 7 digits integers formed by using the digits 2, 3, 4, 5 only and having the sum of digits equal to 18 is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 26 **Question Id :** 3666947724 **Question Type :** SA **Calculator :** None

Response Time : N.A **Think Time :** N.A **Minimum Instruction Time :** 0

Correct Marks : 4 **Wrong Marks :** 1

केवल अंकों 2, 3, 4, 5 के प्रयोग से बनाए गए 7 अंकों के पूर्णांकों, जिनके अंको का योग 18 है, की संख्या _____ है।

Response Type : Numeric

Evaluation Required For SA : Yes

Answers Type : Equal**Text Areas** : PlainText**Possible Answers** :

10

Question Number : 27 **Question Id** : 3666947725 **Question Type** : SA **Calculator** : None**Response Time** : N.A **Think Time** : N.A **Minimum Instruction Time** : 0**Correct Marks** : 4 **Wrong Marks** : 1The remainder when $(556)^{40}$ is divided by 7 is _____.**Response Type** : Numeric**Evaluation Required For SA** : Yes**Show Word Count** : Yes**Answers Type** : Equal**Text Areas** : PlainText**Possible Answers** :

10

Question Number : 27 **Question Id** : 3666947725 **Question Type** : SA **Calculator** : None**Response Time** : N.A **Think Time** : N.A **Minimum Instruction Time** : 0**Correct Marks** : 4 **Wrong Marks** : 1 $(556)^{40}$ को 7 से विभाजित करने पर शेषफल _____ है ।**Response Type** : Numeric**Evaluation Required For SA** : Yes**Show Word Count** : Yes**Answers Type** : Equal**Text Areas** : PlainText**Possible Answers** :

10

Question Number : 28 Question Id : 3666947726 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $[t]$ denote the greatest integer less than or equal to t . Then the value of

$10 - 10 \int_{-2}^2 [x + x^3] dx$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 28 Question Id : 3666947726 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना $[t]$ महत्तम पूर्णांक $\leq t$ है। तो $10 - 10 \int_{-2}^2 [x + x^3] dx$ का मान _____ है।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 29 Question Id : 3666947727 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $A = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$. If $k, l \in \mathbb{N}$ be such that $A^k B^l = I$, then the minimum value of $k + l$ is _____.

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 29 Question Id : 3666947727 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना $A = \frac{1}{\sqrt{2}} \begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix}$ तथा $B = \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$ हैं। यदि $k, l \in \mathbb{N}$ के लिए $A^k B^l = I$ है, तो $k+l$ का न्यूनतम मान _____ है।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Question Number : 30 Question Id : 3666947728 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $A_1 = [1]$, $A_2 = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$, $A_3 = \begin{bmatrix} 6 & 7 & 8 \\ 9 & 10 & 11 \\ 12 & 13 & 14 \end{bmatrix}$, ... Then the sum of the diagonal elements of A_{20} is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Text Areas : PlainText

Possible Answers :

10

Question Number : 30 Question Id : 3666947728 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना $A_1 = [1]$, $A_2 = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$, $A_3 = \begin{bmatrix} 6 & 7 & 8 \\ 9 & 10 & 11 \\ 12 & 13 & 14 \end{bmatrix}$, ... हैं। तो A_{20} के विकर्ण के अवयवों का योग _____ है।

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

10

Aptitude Test

Section Id :	366694443
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes

Maximum Instruction Time :

0

Sub-Section Number :

1

Sub-Section Id :

366694443

Question Shuffling Allowed :

Yes

Is Section Default? :

null

Question Number : 31 Question Id : 3666947729 Question Type : MCQ Option Shuffling : Yes Is**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum****Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1**

Which of the following is not a sustainable development goal targeted to be achieved by 2030?

Options :

36669424521. gender equality

36669424522. zero hunger

36669424523. good health & well being

36669424524. space Research

Question Number : 31 Question Id : 3666947729 Question Type : MCQ Option Shuffling : Yes Is**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum****Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1**

नीचे दिये गये विकल्पों में से कौन सा एक सस्टेनेबल डवलपमेन्ट गोल जो 2030 तक पूर्ण नहीं करना है।

Options :

36669424521. लिंग अनुपात

36669424522. जीरो हंगर

36669424523. अच्छा स्वास्थ्य

36669424524. आंतरिक्ष शोध

Question Number : 32 Question Id : 3666947730 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

KANDARIYA MAHADEV TEMPLE is situated in which state of India?

Options :

36669424525. Madhya Pradesh

36669424526. Maharashtra

36669424527. Rajasthan

36669424528. Karnataka

Question Number : 32 Question Id : 3666947730 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

खन्दरिया महादेव मन्दिर किस राज्य में स्थित है?

Options :

36669424526. महाराष्ट्र

36669424527. राजस्थान

36669424528. कर्नाटक

Question Number : 33 Question Id : 3666947731 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Vertical elements in a building are:-

Options :

36669424529. Column, Lintel, Wall

36669424530. Lintel, Beam, Arch

36669424531. Column, Pier, Post

36669424532. Floor, Column, Arch

Question Number : 33 Question Id : 3666947731 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Options :

36669424529. स्तम्भ, लिंटल, दीवार

36669424530. लिंटल, बीम, तोरण

36669424531. स्तम्भ, पीअर, पोस्ट

36669424532. फर्श, स्तम्भ, तोरण

Question Number : 34 Question Id : 3666947732 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Cavity Walls are used for

Options :

36669424533. Waterproofing

36669424534. Heat Insulation

36669424535. Aesthetics

36669424536. Cost saving

Question Number : 34 Question Id : 3666947732 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

कैविटी वॉल का क्या उपयोग है?

Options :

36669424533. वाटरप्रूफिंग

36669424534. उष्मा अवरोधी

36669424535. सौन्दर्य वर्धन

36669424536. लागत बचाव

Question Number : 35 Question Id : 3666947733 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Lintel is related to:

Options :

36669424537. Window

36669424538. Roof

36669424539. Foundation

36669424540. Pipe

Question Number : 35 Question Id : 3666947733 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

लिटल का सम्बन्ध है-

Options :

36669424537. खिड़की

36669424538. छत

36669424539. नींव

36669424540. पाइप

Question Number : 36 Question Id : 3666947734 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



Choose the correct option among the following by looking at the image given above:

Options :

36669424541. Lodhi Garden

36669424543.

Rajghat

36669424544.

Bahai Temple

Question Number : 36 Question Id : 3666947734 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिये गये चित्र को देखकर सही विकल्प चुनें-



Options :

36669424541. लोधी गार्डन

36669424542. जन्तर मन्तर

36669424543. राजघाट

36669424544. बहाई मंदिर

Question Number : 37 Question Id : 3666947735 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

ARCHITECT ACT 1972 was enforced in which month

Options :

36669424545. 31st Dec

36669424546. 31st May

36669424547. 31st July

36669424548. 31st March

Question Number : 37 Question Id : 3666947735 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

आर्किटेक्ट एक्ट 1972 किस महीने में लागू हुआ था?

Options :

36669424545. 31 दिसंबर

36669424546. 31 मई

36669424547. 31 जुलाई

36669424548. 31 मार्च

Question Number : 38 Question Id : 3666947736 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The dome of Rashtrapati Bhawan is influenced by which of the following:

Options :

36669424549. Gurudwara

36669424550. Mosque

36669424551. Stupa

36669424552. Temple

Question Number : 38 Question Id : 3666947736 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

राष्ट्रपति भवन की गुम्बज किस से प्रभावित है?

Options :

36669424549. गुरुद्वारा

36669424550. मस्जिद

36669424551. स्तूप

36669424552. मंदिर

Question Number : 39 Question Id : 3666947737 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Dominion tower is designed by

Options :

36669424553. Bjarke Ingels

36669424554. Zaha Hadid

36669424555. Frei otto

36669424556. F.L. Wright

Question Number : 39 Question Id : 3666947737 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

डोमिनियन टावर किसने डिजाइन किया है?

Options :

36669424553. बिजार्क इलिस

36669424554. जहा हदीद

36669424556. एफ.एल.राइट

**Question Number : 40 Question Id : 3666947738 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0**

Correct Marks : 4 Wrong Marks : 1

The largest river island of the world is present in which state of India?

Options :

36669424557. Maharashtra

36669424558. Assam

36669424559. Uttar Pradesh

36669424560. West Bengal

**Question Number : 40 Question Id : 3666947738 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0**

Correct Marks : 4 Wrong Marks : 1

सबसे बड़ा नदी द्वीप दुनिया का भारत के किस राज्य में स्थित है?

Options :

36669424557. महाराष्ट्र

36669424559. **उत्तर प्रदेश**

36669424560. **पश्चिम बंगाल**

Question Number : 41 Question Id : 3666947739 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who prepared the first layout of the town of Jamshedpur?

Options :

36669424561. **Charles Correa**

36669424562. **Otto Konigsberger**

36669424563. **Le Corbuseir**

36669424564. **Messrs Julin Kennedy Sahhin**

Question Number : 41 Question Id : 3666947739 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

जमशेदपुर नगर का पहला योजना प्रारूप किसने तैयार किया था?

Options :

36669424561. **चार्ल्स कोरिया**

36669424562. ओट्टो कोइन्सबर्गर

36669424563. ली-कॉर्बुजियर

36669424564. मैसी जूलिन एवं केनेडी शाहीन

Question Number : 42 Question Id : 3666947740 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



Identify the historical monument which is given in the image.

Options :

36669424565. Sanchi Stupa

36669424566. Victory Tower

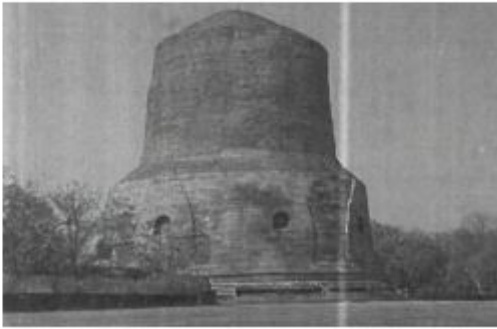
36669424567. Sarnath Stupa

36669424568. Nalanda

Question Number : 42 Question Id : 3666947740 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चित्र में दिये गये ऐतिहासिक स्मारक को पहचानिए



Options :

36669424565. साँची स्तूप

36669424566. विक्टरी टॉवर (विजयी स्तम्भ)

36669424567. सारनाथ स्तूप

36669424568. नालन्दा

Question Number : 43 Question Id : 3666947741 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who was known as "Father of modern concrete"?

Options :

36669424569. John Paul

36669424570. John Nash

36669424571. John Smeaton

36669424572. Joseph Stein

Question Number : 43 Question Id : 3666947741 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मॉडर्न कॉंक्रीट का जनक किसे कहा जाता है?

Options :

36669424569. जॉन पॉल

36669424570. जॉन नॅश

36669424571. जॉन स्मीटन

36669424572. जॉसेफ स्टीन

Question Number : 44 Question Id : 3666947742 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who is the architect of TWA Airport, New York?

Options :

36669424574. Mies Vander Rohe

36669424575. Joseph Allen Stein

36669424576. Alvar Aalto

Question Number : 44 Question Id : 3666947742 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

TWA हवाई अड्डा, न्यूयॉर्क का वास्तुकला विद्य कौन है?

Options :

36669424573. एरो सारीनेन

36669424574. मीज़ वेन्डर रोह

36669424575. जोसेफ एलन स्टीन

36669424576. अल्वर आल्टो

Question Number : 45 Question Id : 3666947743 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Starting from a point, Maria walked 12 meters towards North, she turned right and walked 10 meters. She again turned right and walked 12 meters, then she turned left and walked 5 meters. How far is she now and in which direction from the starting point? Consider the starting point is in south direction.

Options :

36669424577. 27 meters towards East

36669424578. 5 meters towards East

36669424579. 10 meters towards West

36669424580. 15 meters towards East

Question Number : 45 Question Id : 3666947743 Question Type : MCQ Option Shuffling : Yes Is**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum****Instruction Time : 0****Correct Marks : 4 Wrong Marks : 1**

आरम्भ बिन्दु से मारिया 12 मीटर उत्तर दिशा की ओर चली, वह दायें मुड़ी एवं 10 मीटर चली वह फिर से दायें मुड़ी एवं 12 मीटर चली फिर वह बायें मुड़ी एवं 5 मीटर चली। आरम्भ बिन्दु को दक्षिण में मानते हुये, वह कितनी दूर आ गयी एवं किस दिशा में है बतायें।

Options :

36669424577. 27 मीटर पूर्व की ओर

36669424578. 5 मीटर पूर्व की ओर

36669424579. 10 मीटर पश्चिम की ओर

36669424580. 15 मीटर पूर्व की ओर

Question Number : 46 Question Id : 3666947744 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who among the following is not Pritzker prize winner?

Options :

36669424581. Wang Shu

36669424582. B.V. Doshi

36669424583. Arata Isozaki

36669424584. Denise Scott Brown

Question Number : 46 Question Id : 3666947744 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन "प्रितज़कर प्राइज़" विजेता नहीं है?

Options :

36669424581. वांग शु

36669424582. बी. वी. दोशी

36669424583. अराटा आइसोज़ाकी

36669424584. डेनिस स्कॉट ब्राउन

Question Number : 47 Question Id : 3666947745 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following is not Antonio Gaudi's project?

Options :

36669424585. Casa Mila

36669424586. Sagrada Familia

36669424587. Casa Batllo

36669424588. Casa Milano

Question Number : 47 Question Id : 3666947745 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन-सा एन्टोनिओ गोडिओ का प्रोजेक्ट नहीं है?

Options :

36669424585. कासा मिला

36669424586. सागराड़ा फैमिलिआ

36669424587. कासा बाटलो

Question Number : 48 Question Id : 3666947746 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which one of the following is most earthquake resistant structure?

Options :

36669424589. RCC framed structure

36669424590. Load bearing structure

36669424591. Mud walls structure

36669424592. Random stone masonry structure

Question Number : 48 Question Id : 3666947746 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सबसे ज्यादा भूकम्प अवरोधी ढाँचा है?

Options :

36669424589. आर.सी.सी.ढाँचा

36669424590. वजन सहने वाला ढाँचा

36669424591. मिट्टी दीवार ढाँचा

36669424592. पत्थर चिनाई ढाँचा

Question Number : 49 Question Id : 3666947747 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

“CHALK” belongs to which category?

Options :

36669424593. Rock

36669424594. Mineral

36669424595. Wood

36669424596. Polymer

Question Number : 49 Question Id : 3666947747 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चॉक किस श्रेणी में है?

Options :

36669424593. पत्थर

36669424594. खनिज

36669424596. पॉलीमर

Question Number : 50 Question Id : 3666947748 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

What are the three parts of colour theory?

Options :

36669424597. hyper, value and chrome

36669424598. honey, violet and chroma

36669424599. hue, value and chroma

36669424600. hue, chrome and violet

Question Number : 50 Question Id : 3666947748 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

रंग सिद्धान्त के तीन भाग क्या है?

Options :

36669424597. हाइपर, वैल्यू एवं क्रोम

36669424598. हनी, वायलेट एवं क्रोमा

36669424599. हयू वेल्सू एवं क्रोमा

36669424600. हयू क्रोम एवं वायलेट

Question Number : 51 Question Id : 3666947749 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the three primary colours?

Options :

36669424601. Red, Blue and Green

36669424602. Red, Yellow and Blue

36669424603. Black, White and Yellow

36669424604. Blue, White and Yellow

Question Number : 51 Question Id : 3666947749 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

तीन प्राथमिक रंग पहचानिए।

Options :

36669424601. लाल, नीला एवं हरा

36669424603. काला, सफेद एवं पीला

36669424604. नीला, सफेद एवं पीला

Question Number : 52 Question Id : 3666947750 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II:

List I	List II
A. Kamakhya Temple	I. Madhya Pradesh
B. Padmanabha Temple	II. Rajasthan
C. Kandariya Mahadev	III. Assam
D. Karni Mata Temple	IV. Kerala

Choose the **correct** answer from the options given below:

Options :

36669424605. A-II, B-I, C-III, D-IV

36669424606. A-IV, B-III, C-II, D-I

36669424607. A-III, B-IV, C-I, D-II

36669424608. A-I, B-II, C-IV, D-III

Question Number : 52 Question Id : 3666947750 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I व सूची II मिलाये-

सूची I	सूची II
A. कामाख्या मंदिर	I. मध्य प्रदेश
B. पद्मनामा मंदिर	II. राजस्थान
C. खन्दरिया महादेव मंदिर	III. आसाम
D. कर्नी माता मंदिर	IV. केरला

सही विकल्प चुनें।

Options :

36669424605. A-II, B-I, C-III, D-IV

36669424606. A-IV, B-III, C-II, D-I

36669424607. A-III, B-IV, C-I, D-II

36669424608. A-I, B-II, C-IV, D-III

Question Number : 53 Question Id : 3666947751 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

A square has an area of 100 sq.mt. How much will be its area on a scale of 1 : 20?

Options :

36669424609. 5 sq.mt.

36669424610. 50 sq.mt.

36669424611. 0.25 sq.mt.

36669424612. 25 sq.mt.

Question Number : 53 Question Id : 3666947751 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक वर्ग का क्षेत्रफल 100 वर्ग मीटर है। 1:20 के माप पर इसका क्षेत्रफल कितना है?

Options :

36669424609. 5 sq.mt.

36669424610. 50 sq.mt.

36669424611. 0.25 sq.mt.

36669424612. 25 sq.mt.

Question Number : 54 Question Id : 3666947752 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I: Shakti Sthal is a memorial in Raj Ghat marking the cremation site of Indira Gandhi.

Statement II: A.P. Kanvinde is the landscape designer known for designing Shakti Sthal.

In the light of the above statements, choose the **correct** answer from the options given below

Options :

36669424613. Both Statement I and Statement II are true

36669424614. Both Statement I and Statement II are false

36669424615. Statement I is true but Statement II is false

36669424616. Statement I is false but Statement II is true

Question Number : 54 Question Id : 3666947752 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कथन I – शक्ति राज घाट में एक स्मारक है जो कि इन्दिरा गाँधी का शमशान स्थल है।

कथन II – ए.पी. कानविन्दे प्रकृति स्थल डिजाइनर है जो कि शक्ति स्थल के लिये जाने जाते हैं।

सही विकल्प चुनें –

Options :

36669424613. दोनों कथन I एवं कथन II सत्य हैं।

36669424614. दोनों कथन I एवं कथन II असत्य हैं।

36669424615. कथन I सत्य है एवं कथन II असत्य है।

Question Number : 55 Question Id : 3666947753 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

What is the full form of 'UDAY'?

Options :

36669424617. Ujjwala Discom Assitance Yojana

36669424618. Unnati Development Ayojan Yojana

36669424619. Ujwal Distribution Assurance Yojana

36669424620. Ujwal Discom Assurance Yojana

Question Number : 55 Question Id : 3666947753 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

UDAY का पूर्ण रूप क्या है?

Options :

36669424617. उज्जवला डिसकॉम असिस्टेन्स योजना

36669424618. उन्नति डवलपमेंट आयोजन योजना

36669424619. उज्जवल डिस्ट्रीब्यूशन अस्योरेंस योजना

36669424620. उज्ज्वल डिस्कॉम अश्योरेस योजना

Question Number : 56 Question Id : 3666947754 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

What is the acronym for 'AYUSH'?

Options :

36669424621. Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homeopathy

36669424622. Ayurveda, Yogic and Unani Siddha and Homeopathy

36669424623. Acroveda, Yoga, Unani, Siddha and Homeopathy

36669424624. Ayurveda, Yoga, Naturopathy, Unani Surgery and Homeopathy

Question Number : 56 Question Id : 3666947754 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

AYUSH का पूर्ण रुप क्या है?

Options :

36669424621. आयुर्वेद, योगा, नैचुरोपैथी, यूनानी, सिद्धा एवं होम्योपैथी

36669424622. आयुर्वेद, योगिक, एवं यूनानी सिद्धा एवं होम्योपैथी

36669424624. आयुर्वेद, योगा, नैचुरोपैथी, यूनानी सर्जरी एवं होम्योपैथी

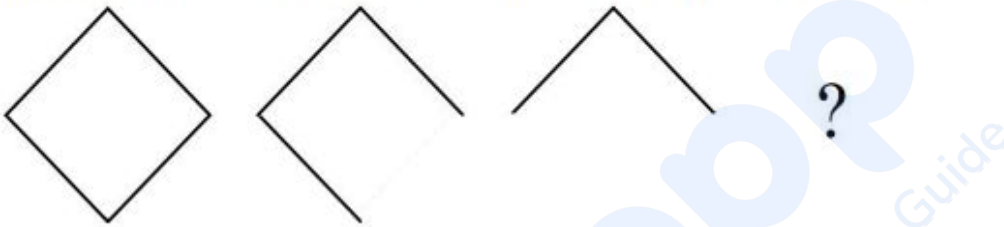
Question Number : 57 Question Id : 3666947755 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

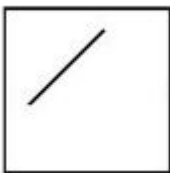
Select the correct option from answer figure which will be best suitable to continue the same pattern as established by the problem figure.



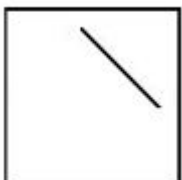
Options :



36669424625.



36669424626.



36669424627.

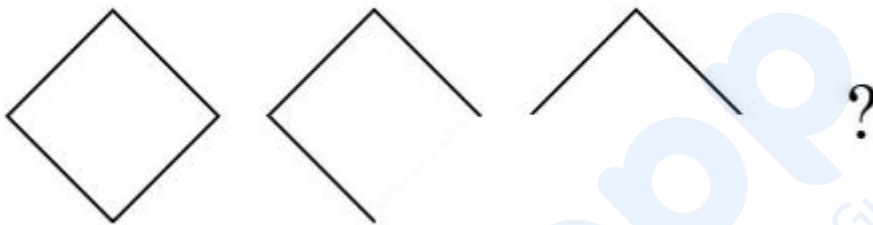


36669424628.

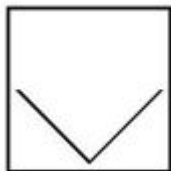
Question Number : 57 Question Id : 3666947755 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

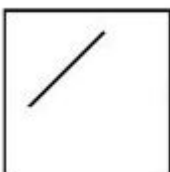
दिये गये उत्तर विकल्पों में से सबसे उत्तम विकल्प चुनिये जो प्रश्न क्रम को आगे करता है-



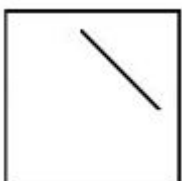
Options :



36669424625.



36669424626.



36669424627.

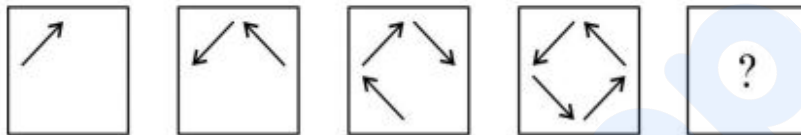
36669424628.



Question Number : 58 Question Id : 3666947756 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

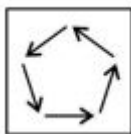
Correct Marks : 4 Wrong Marks : 1

Choose the correct option from the answer figures which completes the question series.

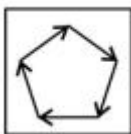


Options :

36669424629.



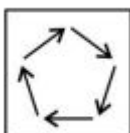
36669424630.



36669424631.



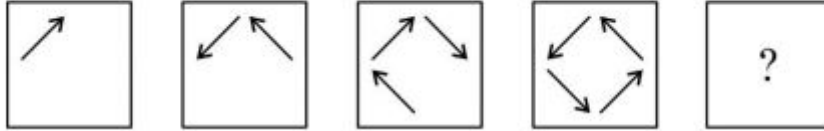
36669424632.



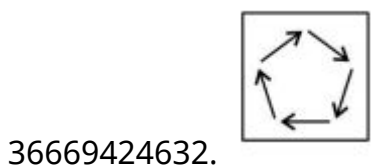
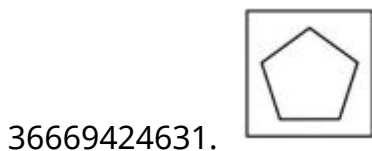
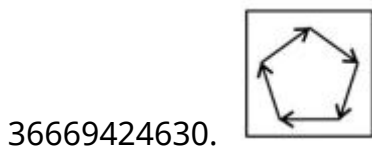
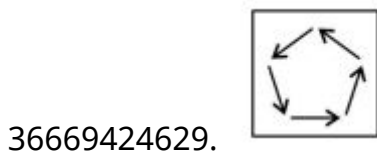
Question Number : 58 Question Id : 3666947756 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रश्न श्रृंखला को पूर्ण करने के लिये उत्तर विकल्पों में सही विकल्प चुनिये।



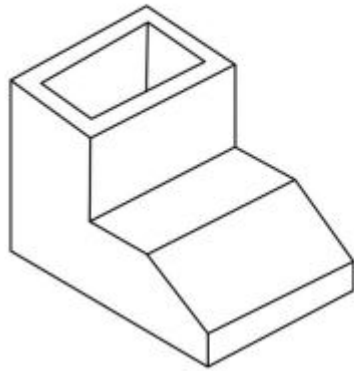
Options :



Question Number : 59 Question Id : 3666947757 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the number of surfaces in the given 3D object.



Options :

36669424633. 12

36669424634. 13

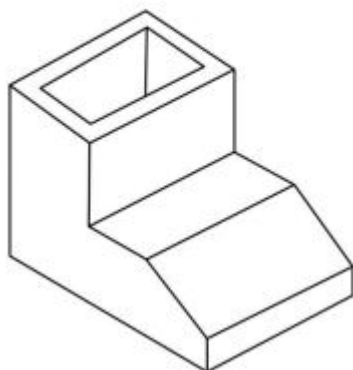
36669424635. 10

36669424636. 9

Question Number : 59 Question Id : 3666947757 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

3-D दृश्य में वस्तु के सतह अथवा पृष्ठों की संख्या पहचानिए।



Options :

36669424633. 12

36669424634. 13

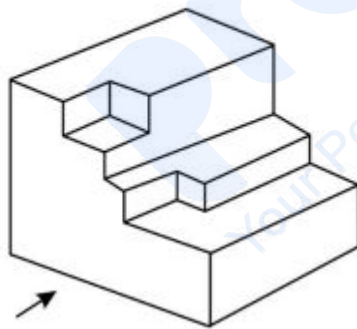
36669424635. 10

36669424636. 9

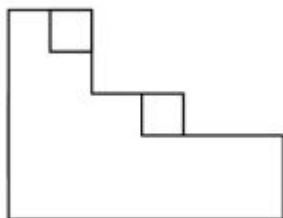
Question Number : 60 Question Id : 3666947758 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The question figure shows the 3D view of an object. Identify the view of the object looking in the direction of the arrow.

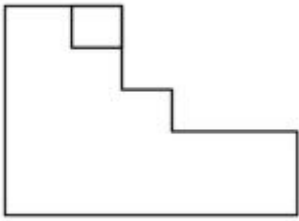


Options :

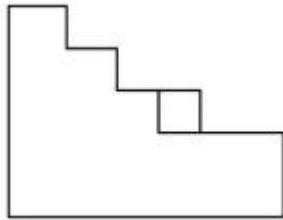


36669424637.

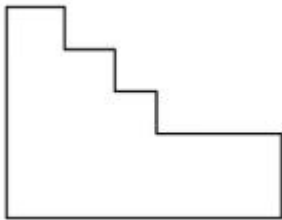
36669424638.



36669424639.



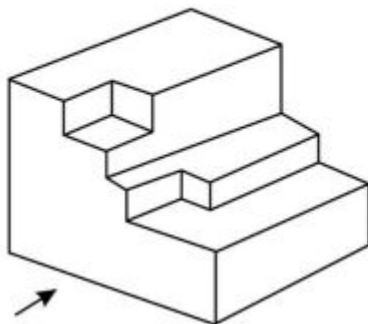
36669424640.



Question Number : 60 Question Id : 3666947758 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

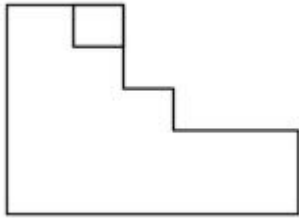
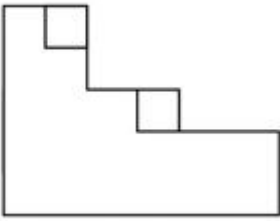
Correct Marks : 4 Wrong Marks : 1

प्रश्न में वस्तु के 3D दृश्य दर्शाया गया है। तीर की दिशा में देखते हुये वस्तु का सही दृश्य पहचानिए।

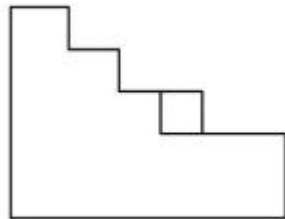


Options :

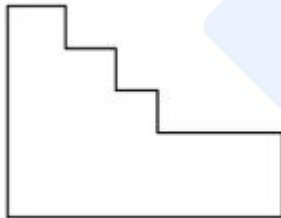
36669424637.



36669424638.



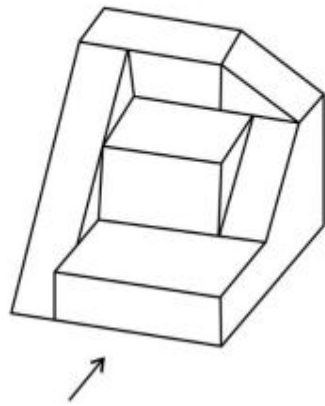
36669424639.



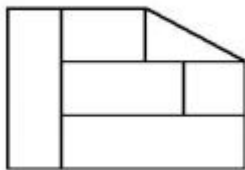
36669424640.

**Question Number : 61 Question Id : 3666947759 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1**

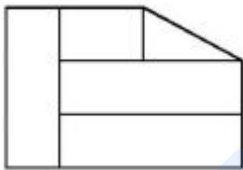
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



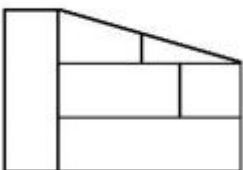
Options :



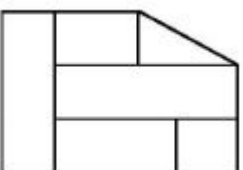
36669424641.



36669424642.



36669424643.

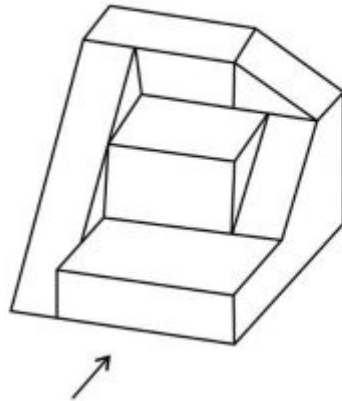


36669424644.

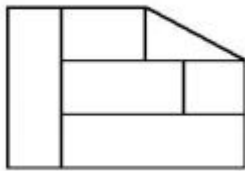
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

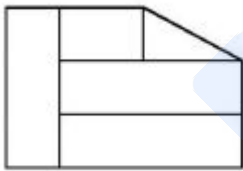
प्रश्न में किसी वस्तु का 3D दृश्य दिया गया है। तीर की दिशा में देखते हुये सही दृश्य पहचानिए।



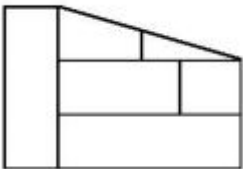
Options :



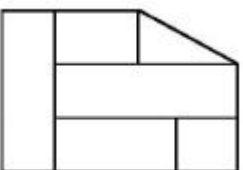
36669424641.



36669424642.



36669424643.

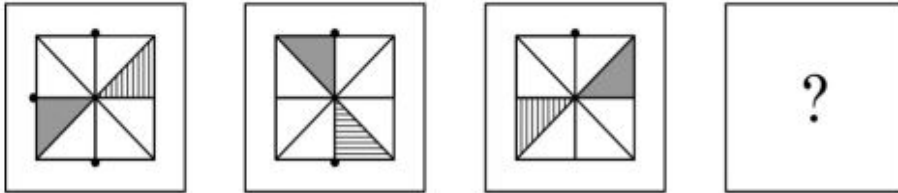


36669424644.

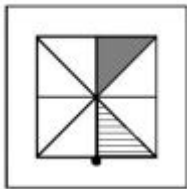
Question Number : 62 Question Id : 3666947760 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

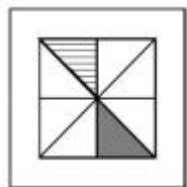
Choose the correct option from the answer figures which completes the sequence.



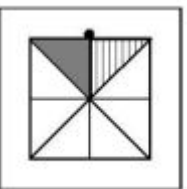
Options :



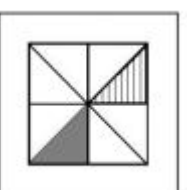
36669424645.



36669424646.



36669424647.



36669424648.

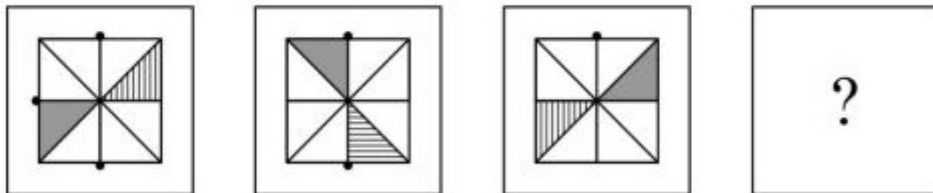
Question Number : 62 Question Id : 3666947760 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

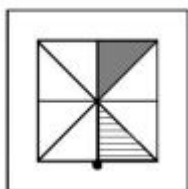
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

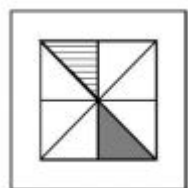
दिये गये विकल्पों में सही विकल्प चुनिए जो प्रश्न क्रम को पूर्ण करता है।



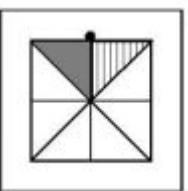
Options :



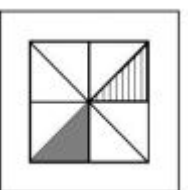
36669424645.



36669424646.



36669424647.



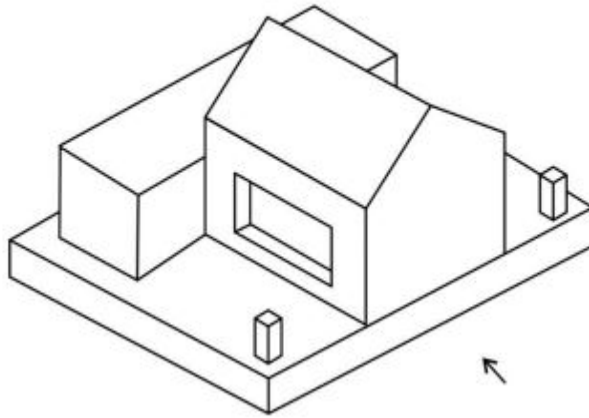
36669424648.

Question Number : 63 Question Id : 3666947761 Question Type : MCQ Option Shuffling : Yes Is

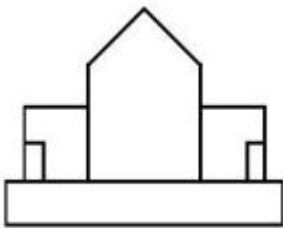
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

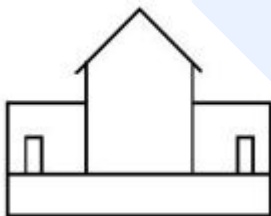
The question figure shows the 3D view of an object, identify the correct view looking in the direction of the arrow?



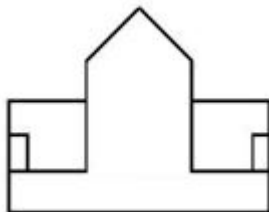
Options :



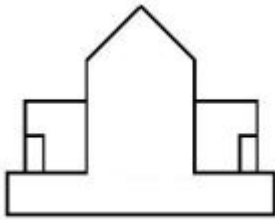
36669424649.



36669424650.



36669424651.



36669424652.

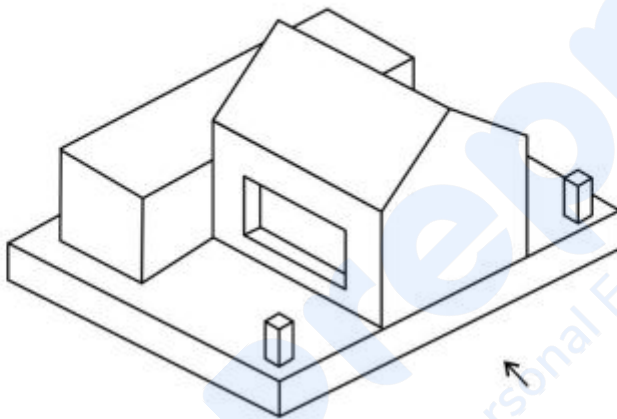
Question Number : 63 Question Id : 3666947761 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

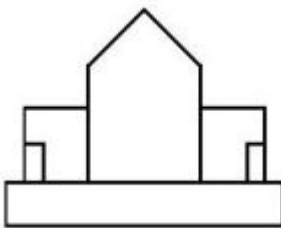
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

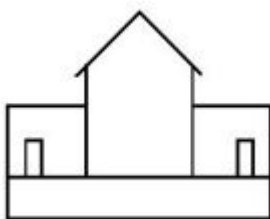
प्रश्न में दिया गया चित्र एक वस्तु का 3D दृश्य दर्शाता है। तीर की दिशा में देखते हुये सही दृश्य पहचानिए।



Options :

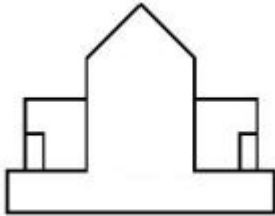
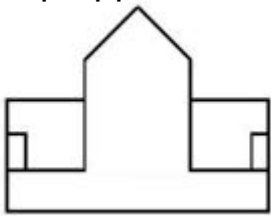


36669424649.



36669424650.

36669424651.

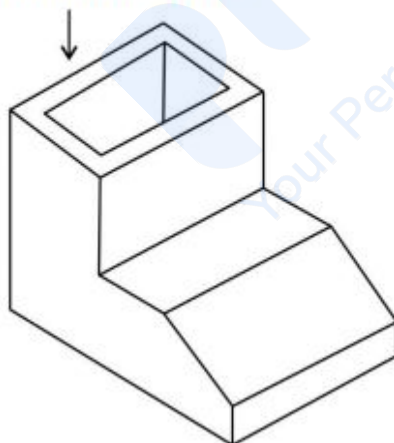


36669424652.

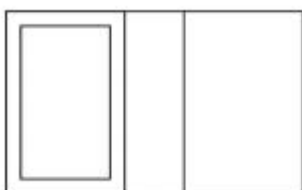
Question Number : 64 Question Id : 3666947762 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The question figure shows the 3D view of an object. Identify the top view of the object in the direction of the arrow.

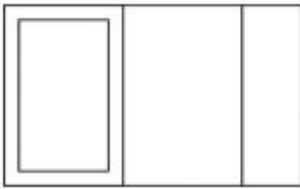


Options :

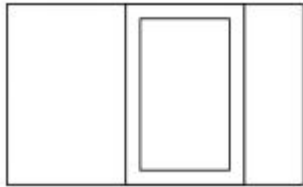


36669424653.

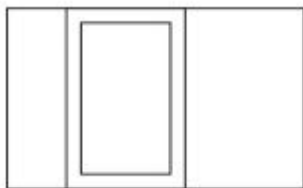
36669424654.



36669424655.



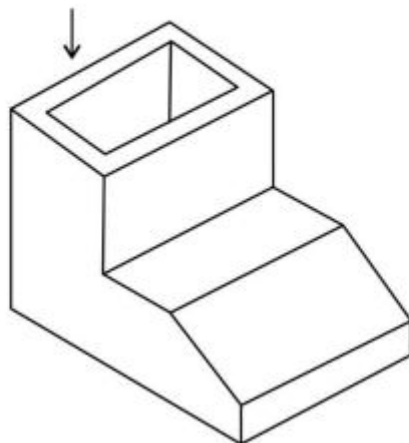
36669424656.



Question Number : 64 Question Id : 3666947762 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

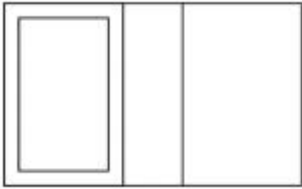
Correct Marks : 4 Wrong Marks : 1

प्रश्न में एक 3D दृश्य दिया गया है। तीर की दिशा में देखते हुए वस्तु का ऊपरी दृश्य दिये गये विकल्पों में चुनो।

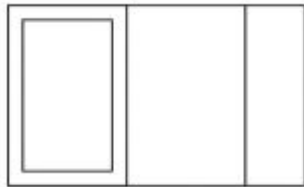


Options :

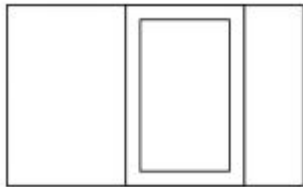
36669424653.



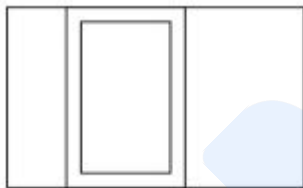
36669424654.



36669424655.

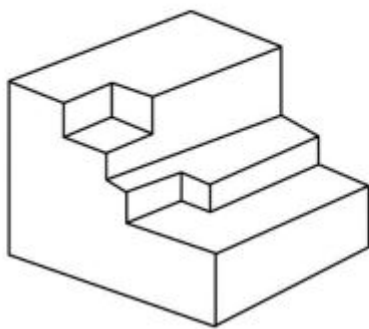


36669424656.



Question Number : 65 Question Id : 3666947763 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4 Wrong Marks : 1

Identify the total number of surfaces in the given 3D object.



Options :

36669424657. 12

36669424658. 13

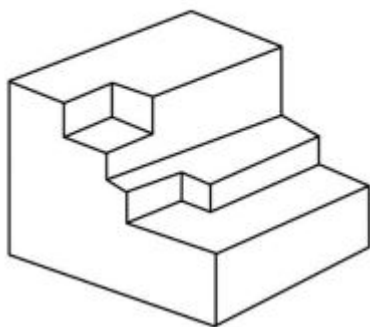
36669424659. 15

36669424660. 16

Question Number : 65 Question Id : 3666947763 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

3D वस्तु में प्रश्नों की संख्या पहचानिए।



Options :

36669424657. 12

36669424658. 13

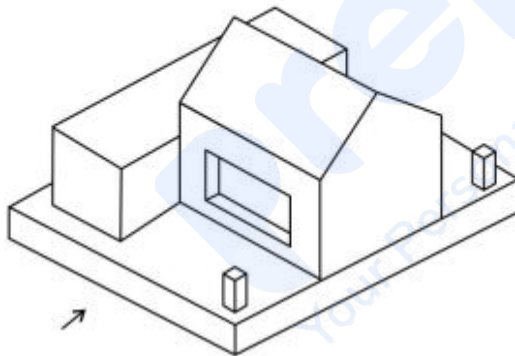
36669424659. 15

36669424660. 16

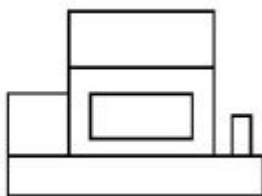
Question Number : 66 Question Id : 3666947764 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

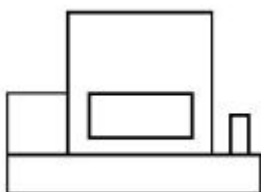
The question figure shows the 3D view of an object. Identify the correct view looking in the direction of the arrow.



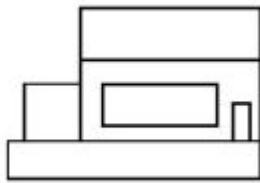
Options :



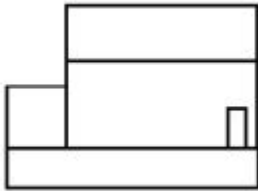
36669424661.



36669424662.



36669424663.

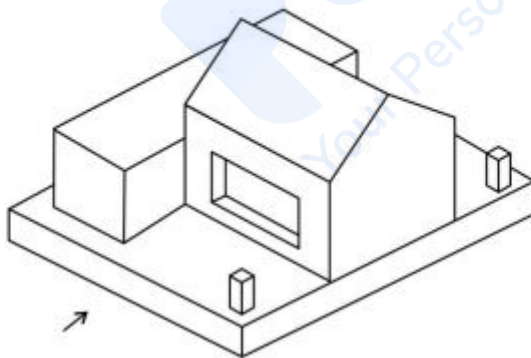


36669424664.

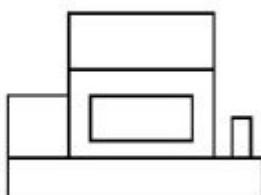
Question Number : 66 Question Id : 3666947764 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रश्न में एक 3D दृश्य दिया गया है। तीर की दिशा में देखते हुये, दिये गये विकल्पों में सही विकल्प चुनिए।

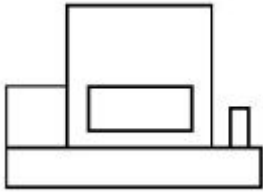


Options :

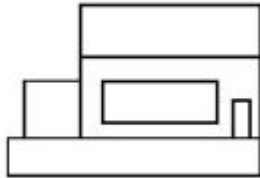


36669424661.

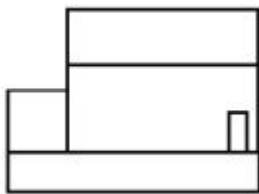
36669424662.



36669424663.



36669424664.



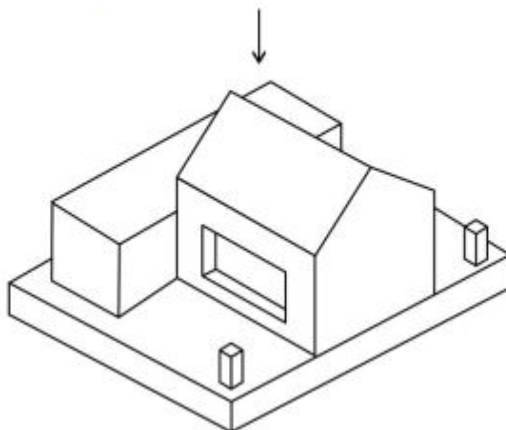
Question Number : 67 Question Id : 3666947765 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

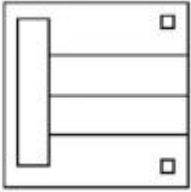
Correct Marks : 4 Wrong Marks : 1

In the question figure it is a 3D view of an object. Identify the correct top view among the given options.

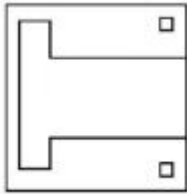


Options :

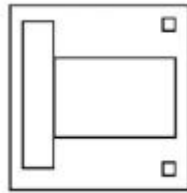
36669424665.



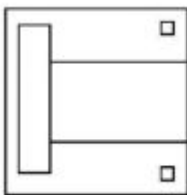
36669424666.



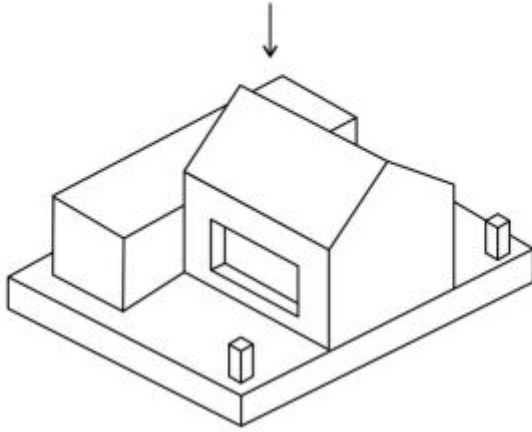
36669424667.



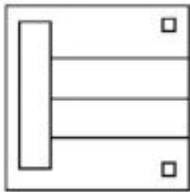
36669424668.



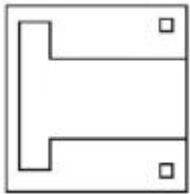
**Question Number : 67 Question Id : 3666947765 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1**



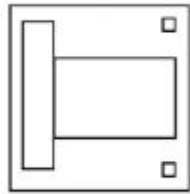
Options :



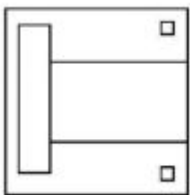
36669424665.



36669424666.



36669424667.

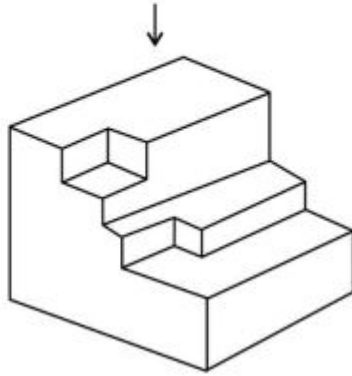


36669424668.

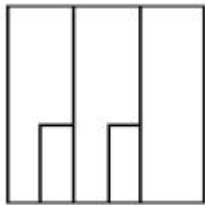
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

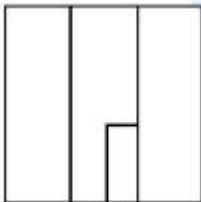
The question figure shows the 3D view of an object. Identify the most appropriate top view of the object from the given direction of the arrow.



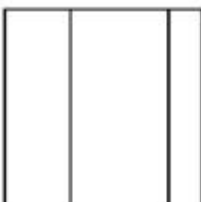
Options :



36669424669.

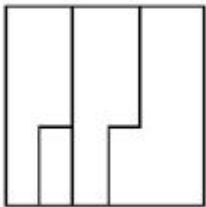


36669424670.



36669424671.

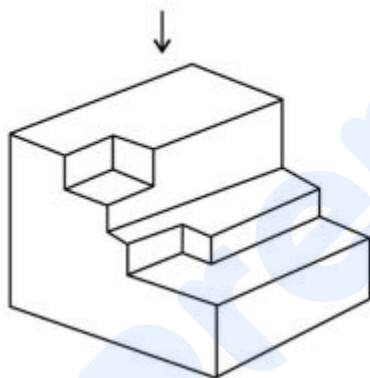
36669424672.



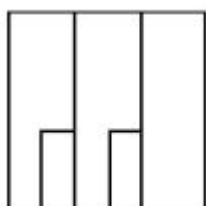
Question Number : 68 Question Id : 3666947766 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

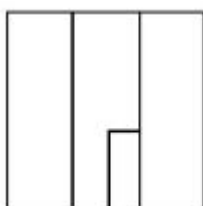
प्रश्न में एक 3D दृश्य दर्शाया गया है। तीर की दिशा में देखते हुये सबसे सही ऊपरी दृश्य चुनिये।



Options :

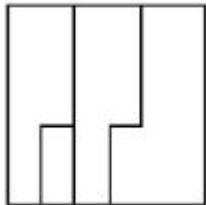
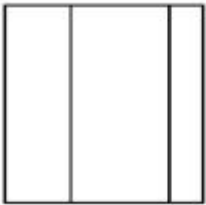


36669424669.



36669424670.

36669424671.

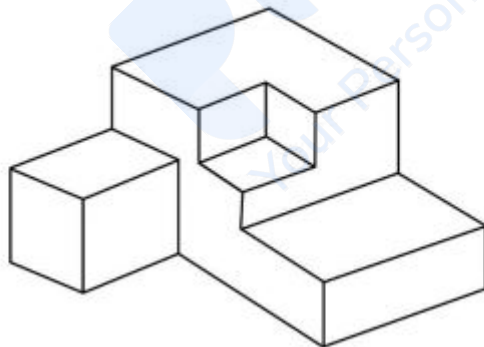


36669424672.

Question Number : 69 Question Id : 3666947767 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the total number of surfaces in the given object.



Options :

36669424673. 13

36669424674. 14

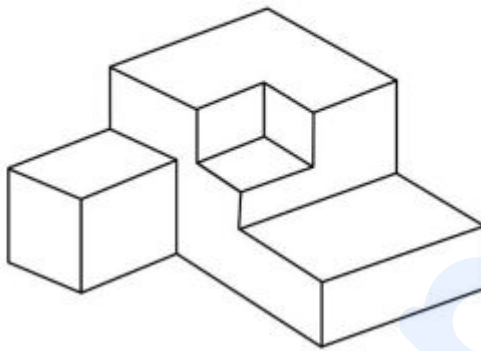
36669424675. 11

36669424676. 10

Question Number : 69 Question Id : 3666947767 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिये गये वस्तु में पृष्ठों की संख्या पहचानिए।



Options :

36669424673. 13

36669424674. 14

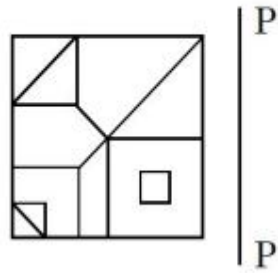
36669424675. 11

36669424676. 10

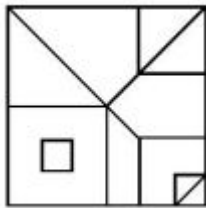
Question Number : 70 Question Id : 3666947768 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

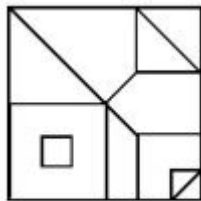
Identify the mirror image of the question figure, amongst the answer figures with respect to P-P.



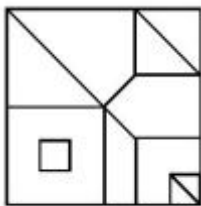
Options :



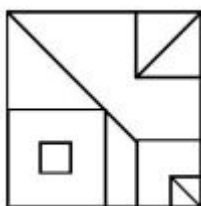
36669424677.



36669424678.



36669424679.

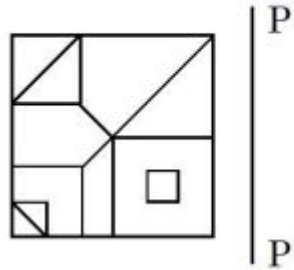


36669424680.

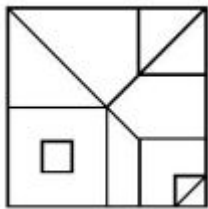
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

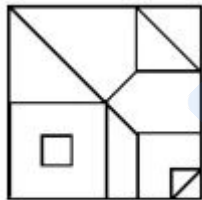
P.P. के आधार पर प्रश्न चित्र का दर्पण प्रतिबिम्ब, दिये गये उत्तर विकल्पों में से चुनिए।



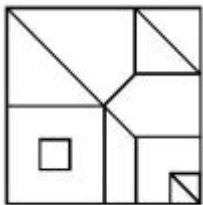
Options :



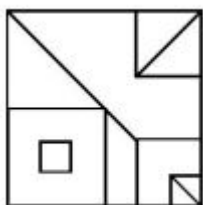
36669424677.



36669424678.



36669424679.



36669424680.

Question Number : 71 Question Id : 3666947769 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the correct mirror image of the question image with respect to P-P.



Options :

36669424681. 

36669424682. 

36669424683. 

36669424684. 

Question Number : 71 Question Id : 3666947769 Question Type : MCQ Option Shuffling : Yes Is
 Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
 Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1



Options :



36669424681.



36669424682.



36669424683.



36669424684.

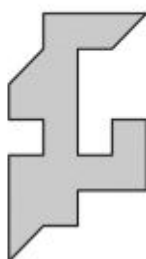
Question Number : 72 Question Id : 3666947770 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

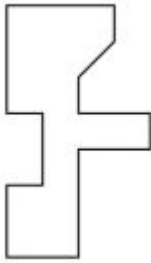
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

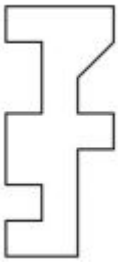
Which of the answer figures fit best to the left side of the given question figure?



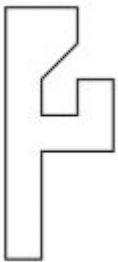
Options :



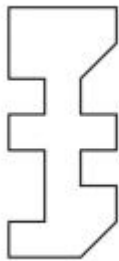
36669424685.



36669424686.



36669424687.



36669424688.

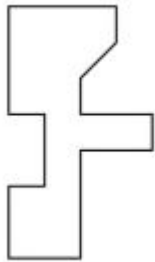
prepp
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**Question Number : 72 Question Id : 3666947770 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0**

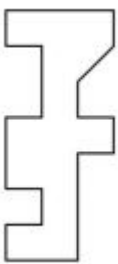
Correct Marks : 4 Wrong Marks : 1



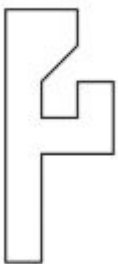
Options :



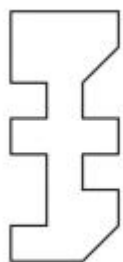
36669424685.



36669424686.



36669424687.

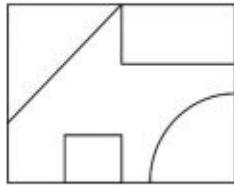


36669424688.

Question Number : 73 Question Id : 3666947771 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In the question figure, the top, front and right side view is given. Identify the most appropriate 3D view of the object from the answer figures.



Top view

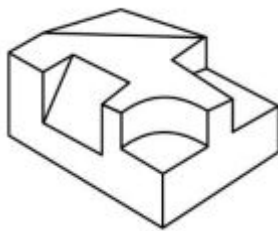


Front view

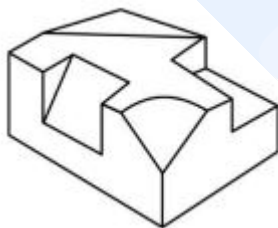


Right side view

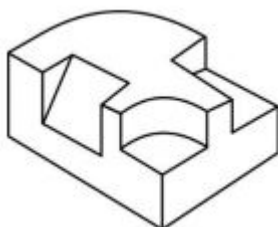
Options :



36669424689.

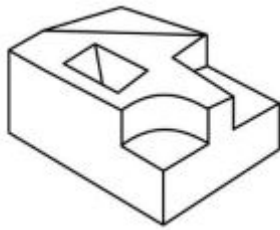


36669424690.



36669424691.

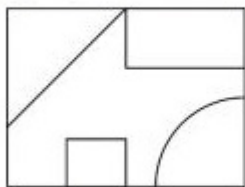
36669424692.



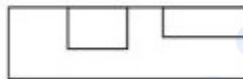
Question Number : 73 Question Id : 3666947771 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिये गये प्रश्न में वस्तु के ऊपरी, सम्मुख एवं दायी ओर से दृश्य दिये गये हैं। सबसे अच्छा 3D दृश्य विकल्पों में से चुनिए।



Top view



Front view

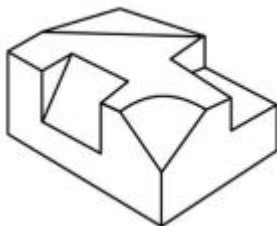


Right side view

Options :

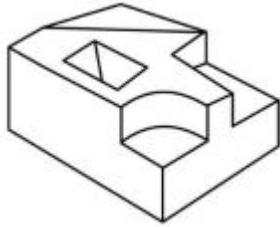
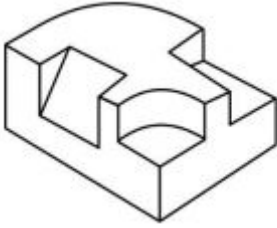


36669424689.



36669424690.

36669424691.



36669424692.

Question Number : 74 Question Id : 3666947772 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

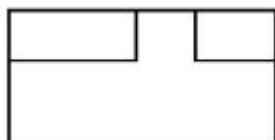
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

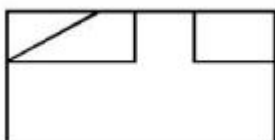
The question figure shows the 3D view of an object. Identify the most appropriate elevation (front view) looking in the direction of arrow.



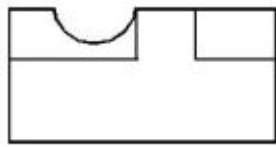
Options :



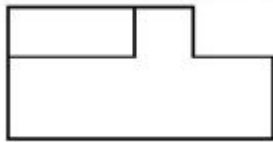
36669424693.



36669424694.



36669424695.

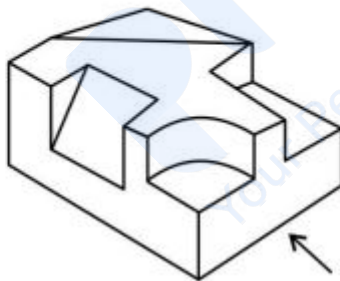


36669424696.

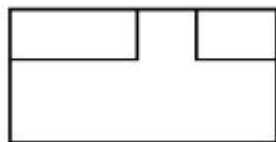
Question Number : 74 Question Id : 3666947772 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

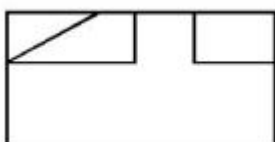
प्रश्न में एक वस्तु का 3D दृश्य दिया गया है। तीर की दिशा में देखते हुये, उत्तर विकल्पों में से सम्मुख दृश्य चुनिये।



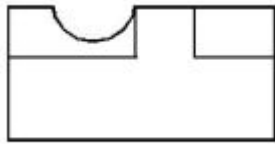
Options :



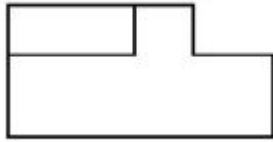
36669424693.



36669424694.



36669424695.

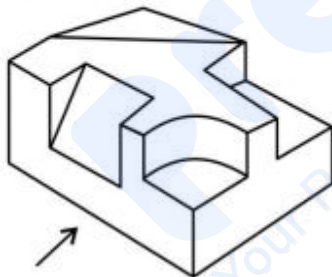


36669424696.

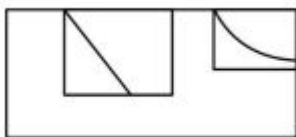
Question Number : 75 Question Id : 3666947773 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

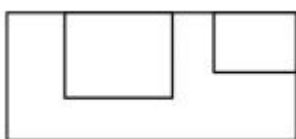
The question figure shows the 3D view of an object. Identify the most appropriate view of the object looking in the direction of the arrow.



Options :

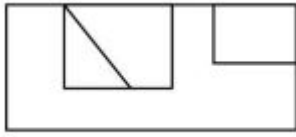
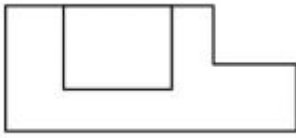


36669424697.



36669424698.

36669424699.

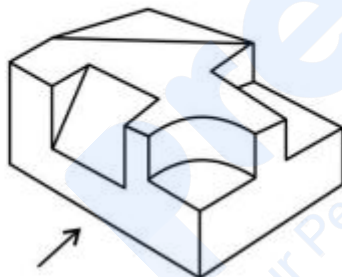


36669424700.

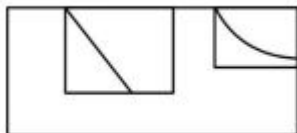
Question Number : 75 Question Id : 3666947773 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

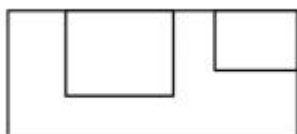
दिये गये प्रश्न में वस्तु का 3D दृश्य दर्शाया गया है। तीर की दिशा में देखते हुये सबसे सही दृश्य पहचानिए।



Options :

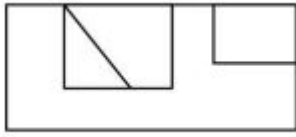
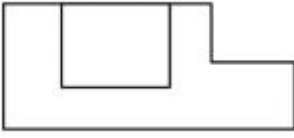


36669424697.



36669424698.

36669424699.



36669424700.

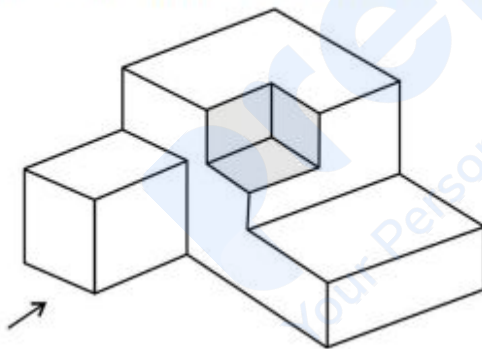
Question Number : 76 Question Id : 3666947774 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

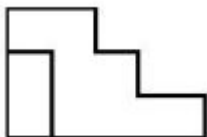
The question figure is the 3D view of an object. Identify the most appropriate front view of the object looking in the direction of the arrow.



Options :

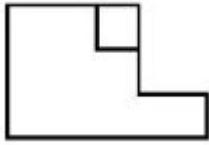


36669424701.

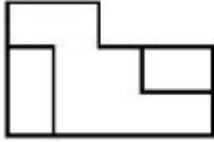


36669424702.

36669424703.



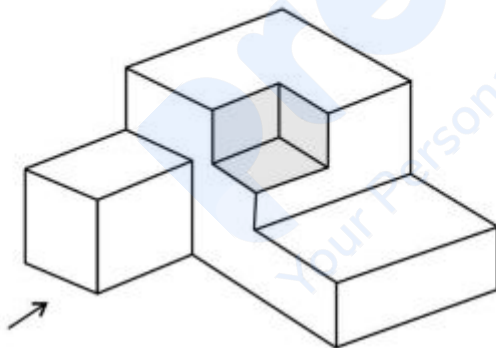
36669424704.



Question Number : 76 Question Id : 3666947774 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रश्न में एक वस्तु का 3D दृश्य दर्शाया गया है। तीर की दिशा में देखते हुये सही दृश्य पहचानिए।

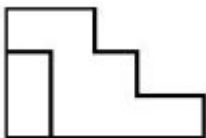


Options :

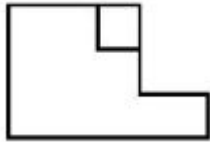
36669424701.



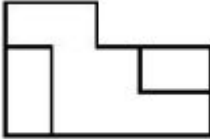
36669424702.



36669424703.



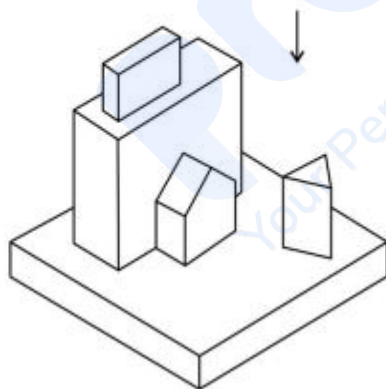
36669424704.



Question Number : 77 Question Id : 3666947775 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Question figure shows 3D view of an object. Identify the most appropriate top view of the given 3D object looking in the direction of an arrow, from the given answers figures.

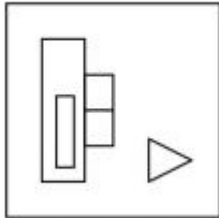
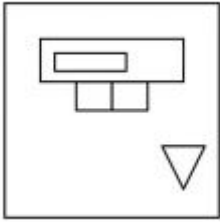


Options :

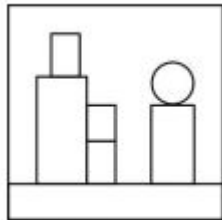


36669424705.

36669424706.



36669424707.

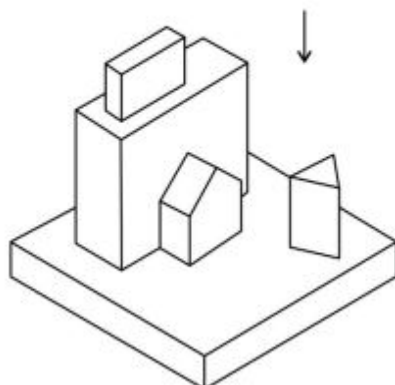


36669424708.

Question Number : 77 Question Id : 3666947775 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

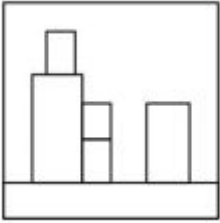
Correct Marks : 4 Wrong Marks : 1

प्रश्न में एक 3D दृश्य दर्शाया गया है। उत्तर विकल्पों में से, तीर की दिशा में देखते हुये ऊपरी दृश्य का विकल्प चुनिए।

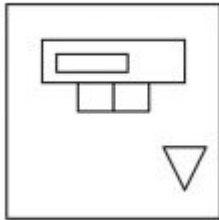


Options :

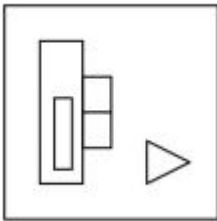
36669424705.



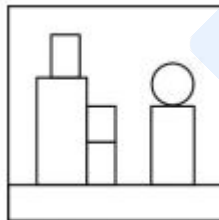
36669424706.



36669424707.



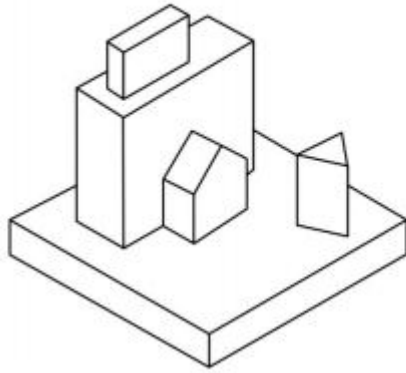
36669424708.



Question Number : 78 Question Id : 3666947776 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the number of surfaces in the problem figure.



Options :

36669424709. 24

36669424710. 25

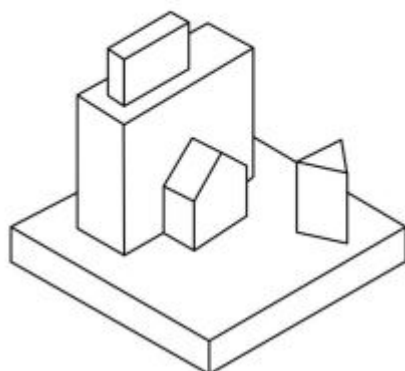
36669424711. 23

36669424712. 20

Question Number : 78 Question Id : 3666947776 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रश्न चित्र में पृष्ठों की संख्या ज्ञात कीजिए।



36669424709. 24

36669424710. 25

36669424711. 23

36669424712. 20

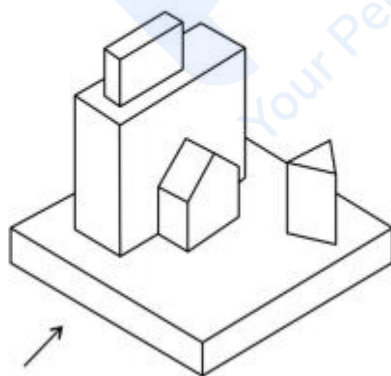
Question Number : 79 Question Id : 3666947777 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

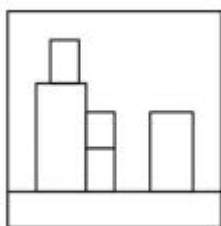
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

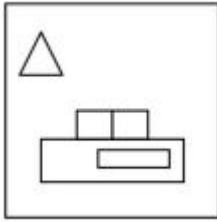
The question figure shows 3D view of an object. Identify the most appropriate elevation of the given 3D object, looking in the direction of an arrow, from the given answer figures.



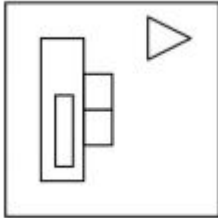
Options :



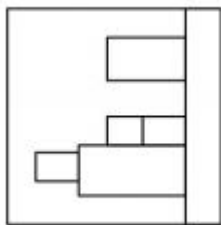
36669424713.



36669424714.



36669424715.

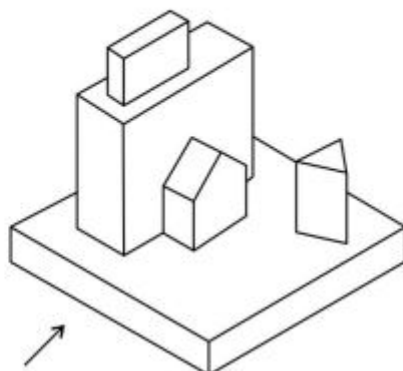


36669424716.

Question Number : 79 Question Id : 3666947777 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

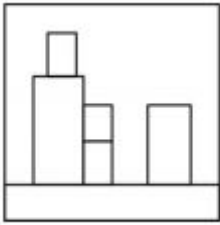
Correct Marks : 4 Wrong Marks : 1

प्रश्न में किसी वस्तु का 3D दर्शाया गया है। तीर की दिशा में देखते हुये, दिये गये विकल्पों में सही विकल्प चुनिए।

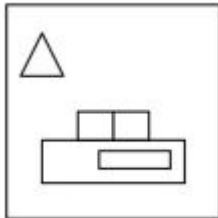


Options :

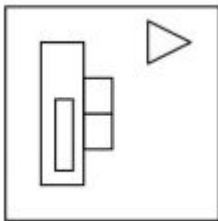
36669424713.



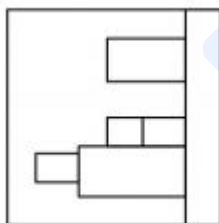
36669424714.



36669424715.

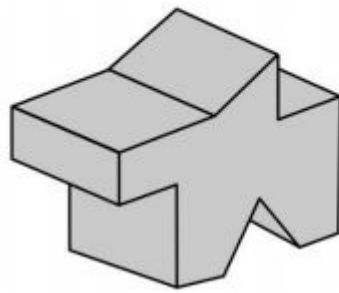


36669424716.



**Question Number : 80 Question Id : 3666947778 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0
Correct Marks : 4 Wrong Marks : 1**

Find out the total number of surfaces of the 3D object.



Options :

36669424717. 12

36669424718. 13

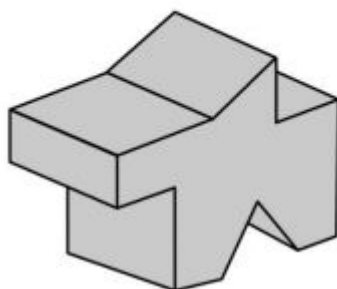
36669424719. 14

36669424720. 15

Question Number : 80 Question Id : 3666947778 Question Type : MCQ Option Shuffling : Yes Is
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum
Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

3D वस्तु में पृष्ठों की संख्या ज्ञात कीजिए।



Options :

36669424717. 12

36669424719. 14

36669424720. 15

Drawing

Section Id :	366694444
Section Number :	4
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	366694444
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 81 Question Id : 3666947779 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 50



Draw the Sketch of the given image in detail.

Question Number : 81 Question Id : 3666947779 Question Type : SUBJECTIVE Consider As
Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time : 0
Correct Marks : 50



इस चित्र को विस्तृत रूप में रेखांकन कीजिए।

Question Number : 82 Question Id : 3666947780 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 50

Create an interesting sculpture, using basic 3D shapes of sports elements eg. different Balls, Bats etc. You can scale each object to any size of your choice, and use them as per your choice. Draw the effect of light and shadow on your composition. Use colours of your choice.

Question Number : 82 Question Id : 3666947780 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 50

खेल के घटक, जैसे कि बॉल, बैट, आदि का प्रयोग करके एक आकर्षक शिल्प का निर्माण कीजिए। हर एक वस्तु आप अपने पसंद के अनुसार कितनी भी बड़े आकार की बना सकते हैं और अपने पसंद के अनुसार उसका प्रयोग कर सकते हैं। आपके रचना में प्रकाश और सांकेतिक परिणाम का रेखांकन कीजिए। अपनी पसंद के रंगों का प्रयोग कीजिए।