National Testing Agency

Question Paper Name:	Paper II EH 7th April 2019 S2
Subject Name:	Paper II EH
Creation Date:	2019-04-07 20:23:26
Duration:	180
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Display Marks:	Yes
Share Answer Key With Delivery Engine:	Yes
Actual Answer Key:	Yes

Paper II

Group Number :	1
Group Id :	416529182
Group Maximum Duration :	0
Group Minimum Duration :	180
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	390

Mathematics

Section Id :	416529340
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	30
Number of Questions to be attempted:	30
Section Marks:	120
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529496
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 41652915398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The number of elements in the set,

$A \cap B \cap C$

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

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

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

is :

Options :

41652960282. 1

41652960283. 2

41652960284. 4

41652960285. infinitely many

Question Number : 1 Question Id : 41652915398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समुच्चय $A \cap B \cap C$, जहाँ

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

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

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

में अवयवों की संख्या है :

Options :

41652960282. 1

41652960283. 2

41652960284. 4

41652960285. अनन्त

Question Number : 2 Question Id : 41652915399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

41652960286. 1

41652960287. -1

41652960288. 2

41652960289. -2

Question Number : 2 Question Id : 41652915399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

41652960286. 1

41652960287. -1

41652960288. 2

41652960289. -2

Question Number : 3 Question Id : 41652915400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

$[x \ y]\begin{bmatrix}1 & 3\\ 5 & 1\end{bmatrix} = \begin{bmatrix}2\\ 1\end{bmatrix}$. If α and β are the roots of the equation $ax^2 + 2bx - (a+b) = 0$, then the equation, whose roots are $\alpha\beta$ and $\frac{1}{\alpha} + \frac{1}{\beta}$, is :

Options :

41652960290. $12x^2 + 47x + 40 = 0$

41652960291. $12x^2 + 17x - 40 = 0$

41652960292. $12x^2 - 53x + 56 = 0$

41652960293. $9x^2 + 54x + 80 = 0$

Question Number : 3 Question Id : 41652915400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना निकाय

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

का हल (a, b) है। यदि समीकरण $ax^2+2bx-(a+b)=0$ के मूल α तथा β हैं, तो वह समीकरण, जिसके मूल $\alpha\beta$ तथा $\frac{1}{\alpha}+\frac{1}{\beta}$ हैं, है :

Options :

41652960290. $12x^2+47x+40=0$

41652960291. $12x^2+17x-40=0$

41652960292. $12x^2-53x+56=0$

41652960293. $9x^2+54x+80=0$

Question Number : 4 Question Id : 41652915401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If $A^{20}=\begin{bmatrix}a & b\\ c & d\end{bmatrix}$, where $A=\begin{bmatrix}1 & 1\\ 0 & 2\end{bmatrix}$, then $a+b+c+d$ is equal to :

Options :

41652960294. 2^{19}

41652960295. 2^{20}

41652960296. 2^{21}

41652960297. 2^{22}

Question Number : 4 Question Id : 41652915401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960294. 2^{19}

41652960295. 2^{20}

41652960296. 2^{21}

41652960297. 2^{22}

Question Number : 5 Question Id : 41652915402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The number of solutions of the equations

$3x-y-z=0$

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

$-3x+z=0$

such that x, y, z are non-negative integers and $x^2+y^2+z^2 \leq 81$ is :

Options :

41652960298. 3

41652960299. 7

41652960300. 1

41652960301. 2

Question Number : 5 Question Id : 41652915402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समीकरणों

$3x-y-z=0$

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

$-3x+z=0$

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

Options :

41652960298. 3

41652960299. 7

41652960300. 1

41652960301. 2

Question Number : 6 Question Id : 41652915403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960302. $2^{99}-2^{50}$

41652960303. $2^{99}-2^{49}$

41652960304. 2^{97}

41652960305. 2^{98}

Question Number : 6 Question Id : 41652915403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960302. $2^{99}-2^{50}$

41652960303. $2^{99}-2^{49}$

41652960304. 2^{97}

41652960305. 2^{98}

Question Number : 7 Question Id : 41652915404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The coefficient of x^5 in the expansion of

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

Options :

41652960306. 405

41652960307. $\frac{405}{256}$

41652960308. $-\frac{1405}{256}$

41652960309. $-\frac{405}{256}$

Question Number : 7 Question Id : 41652915404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960306. 405

41652960307. $\frac{405}{256}$

41652960308. $-\frac{1405}{256}$

41652960309. $-\frac{405}{256}$

Question Number : 8 Question Id : 41652915405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960310. 896

41652960311. 798

41652960312. 756

41652960313. 710

Question Number : 8 Question Id : 41652915405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960310. 896

41652960311. 798

41652960312. 756

41652960313. 710

Question Number : 9 Question Id : 41652915406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

41652960314. $\frac{75}{1056}$

41652960315. $\frac{58}{528}$

41652960316. $\frac{65}{528}$

41652960317. $\frac{65}{1056}$

Question Number : 9 Question Id : 41652915406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

41652960314. $\frac{75}{1056}$

41652960315. $\frac{58}{528}$

41652960316. $\frac{65}{528}$

41652960317. $\frac{65}{1056}$

Question Number : 10 Question Id : 41652915407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

If $\lim\limits_{x\to 4} \frac{x^{3/4} - 4^{3/4}}{x^{4/3} - 4^{4/3}} = {}^{9}\text{P}$, then p is equal to :

Options :

41652960318. $(2)^{-11/2}$

41652960319. $(2)^{-31/6}$

41652960320. $(2)^{-29/6}$

41652960321. $(2)^{-9/2}$

Question Number : 10 Question Id : 41652915407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

यदि $\lim\limits_{x\to 4} \frac{x^{3/4} - 4^{3/4}}{x^{4/3} - 4^{4/3}} = {}^{9}\text{P}$, तो p बराबर है :

Options :

41652960318. $(2)^{-11/2}$

41652960319. $(2)^{-31/6}$

41652960320. $(2)^{-29/6}$

41652960321. $(2)^{-9/2}$

Question Number : 11 Question Id : 41652915408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960322. $3x + y = 3$

41652960323. $2x - 4y = -5$

41652960324. $2x + 4y = 7$

41652960325. $3x - y = 0$

Question Number : 11 Question Id : 41652915408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना एक अवकलनीय फलन $f: \mathbf{R} \to \mathbf{R}$ इस प्रकार है कि सभी $u, v \in \mathbf{R}$ के लिए $f(u+v) = f(u) + 2v^2 + 4uv$ है। यदि $f(1) = 3$ है, तो बिन्दु $\left(\frac{1}{2}, f\left(\frac{1}{2}\right)\right)$ पर वक्र $y = f(x)$ के अभिलंब का समीकरण है :

Options :

41652960322. $3x + y = 3$

41652960323. $2x - 4y = -5$

41652960324. $2x + 4y = 7$

41652960325. $3x - y = 0$

Question Number : 12 Question Id : 41652915409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $\lambda \in R$ and

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

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

Options :

41652960326. -1

41652960327. $-\frac{1}{3}$

41652960328. 0

41652960329. $\frac{1}{3}$

Question Number : 12 Question Id : 41652915409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $\lambda \in R$ तथा

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

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

Options :

41652960326. -1

41652960327. $-\frac{1}{3}$

41652960328. 0

41652960329. $\frac{1}{3}$

Question Number : 13 Question Id : 41652915410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960330. $3x + 4y + 26 = 0$

41652960331. $3x + 4y + 23 = 0$

41652960332. $3x + 20y + 103 = 0$

41652960333. $3x + 20y + 106 = 0$

Question Number : 13 Question Id : 41652915410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960330. $3x + 4y + 26 = 0$

41652960331. $3x + 4y + 23 = 0$

41652960332. $3x + 20y + 103 = 0$

41652960333. $3x + 20y + 106 = 0$

Question Number : 14 Question Id : 41652915411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960334. 840

41652960335. 940

41652960336. 1048

41652960337. 1148

Question Number : 14 Question Id : 41652915411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960334. 840

41652960335. 940

41652960336. 1048

41652960337. 1148

Question Number : 15 Question Id : 41652915412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

(Here C is a constant of integration).

Options :

41652960338. $x + \log_e |e^x - e^{-x}| + C$

41652960339. $-x + \log_e |e^x - e^{-x}| + C$

41652960340. $-x + \log_e |e^x + e^{-x}| + C$

41652960341. $x + \log_e |e^x + e^{-x}| + C$

Question Number : 15 Question Id : 41652915412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

(यहाँ C एक समाकलन अचर है)

Options :

41652960338. $x + \log_e |e^x - e^{-x}| + C$

41652960339. $-x + \log_e |e^x - e^{-x}| + C$

41652960340. $-x + \log_e |e^x + e^{-x}| + C$

41652960341. $x + \log_e |e^x + e^{-x}| + C$

Question Number : 16 Question Id : 41652915413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The integral

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

is equal to :

Options :

41652960342. 0

41652960343. $-\frac{\pi}{2}$

41652960344. $\frac{3\pi}{2}$

41652960345. $\frac{\pi}{2}$

Question Number : 16 Question Id : 41652915413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

समाकल

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

बराबर है :

Options :

41652960342. 0

41652960343. $-\frac{\pi}{2}$

41652960344. $\frac{3\pi}{2}$

41652960345. $\frac{\pi}{2}$

Question Number : 17 Question Id : 41652915414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) of the region

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

Options :

41652960346. $\frac{4\sqrt{2}}{3} - \frac{7}{6}$

41652960347. $\frac{4\sqrt{2}}{3} + \frac{7}{6}$

41652960348. $\frac{2\sqrt{2}}{3} + \frac{5}{6}$

41652960349. $\frac{2\sqrt{2}}{3} - \frac{1}{6}$

Question Number : 17 Question Id : 41652915414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

क्षेत्रफल (वर्ग इकाइयों में) है :

Options :

41652960346. $\frac{4\sqrt{2}}{3} - \frac{7}{6}$

41652960347. $\frac{4\sqrt{2}}{3} + \frac{7}{6}$

41652960348. $\frac{2\sqrt{2}}{3} + \frac{5}{6}$

41652960349. $\frac{2\sqrt{2}}{3} - \frac{1}{6}$

Question Number : 18 Question Id : 41652915415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960350. 0

41652960351. $\frac{3}{2}$

41652960352. $\log_e(2)$

41652960353. $\log_e(2) - \frac{3}{2}$

Question Number : 18 Question Id : 41652915415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960350. 0

41652960351. $\frac{3}{2}$

41652960352. $\log_e(2)$

41652960353. $\log_e(2) - \frac{3}{2}$

Question Number : 19 Question Id : 41652915416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960354. $2\sqrt{2}$

41652960355. $3\sqrt{3}$

41652960356. 6

41652960357. $2\sqrt{3}$

Question Number : 19 Question Id : 41652915416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960354. $2\sqrt{2}$

41652960355. $3\sqrt{3}$

41652960356. 6

41652960357. $2\sqrt{3}$

Question Number : 20 Question Id : 41652915417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960358. 29

41652960359. 27

41652960360. 21

41652960361. 17

Question Number : 20 Question Id : 41652915417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960358. 29

41652960359. 27

41652960360. 21

41652960361. 17

Question Number : 21 Question Id : 41652915418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The normal to the ellipse $\frac{x^2}{16}+\frac{y^2}{36}=1$ at a point P on the ellipse has slope $\frac{2}{3}$. If this normal intersects the major axis of the ellipse at a point A, then $(PA)^2$ is equal to :

Options :

41652960362. $\frac{104}{9}$

41652960363. $\frac{136}{9}$

41652960364. $\frac{88}{9}$

41652960365. $\frac{32}{3}$

Question Number : 21 Question Id : 41652915418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

दीर्घवृत्त $\frac{x^2}{16} + \frac{y^2}{36} = 1$ के एक बिन्दु P पर अभिलम्ब की प्रवणता (slope) $\frac{2}{3}$ है। यदि यह अभिलंब दीर्घवृत्त के दीर्घ अक्ष को एक बिन्दु A पर काटता है, तो $(PA)^2$ बराबर है :

Options :

41652960362. $\frac{104}{9}$

41652960363. $\frac{136}{9}$

41652960364. $\frac{88}{9}$

41652960365. $\frac{32}{3}$

Question Number : 22 Question Id : 41652915419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960366. $\frac{5}{2}$

41652960367. $-\frac{2}{5}$

41652960368. $-\frac{4}{5}$

41652960369. $\frac{4}{5}$

Question Number : 22 Question Id : 41652915419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960366. $\frac{5}{2}$

41652960367. $-\frac{2}{5}$

41652960368. $-\frac{4}{5}$

41652960369. $\frac{4}{5}$

Question Number : 23 Question Id : 41652915420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960370. $\frac{1}{\sqrt{22}}$

41652960371. $\frac{5}{\sqrt{11}}$

41652960372. $\frac{3}{\sqrt{22}}$

41652960373. $\frac{2}{\sqrt{11}}$

Question Number : 23 Question Id : 41652915420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960370. $\frac{1}{\sqrt{22}}$

41652960371. $\frac{5}{\sqrt{11}}$

41652960372. $\frac{3}{\sqrt{22}}$

41652960373. $\frac{2}{\sqrt{11}}$

Question Number : 24 Question Id : 41652915421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

$\overrightarrow{OB} = 10\vec{a} + 2\vec{b}$. Let p (in sq. units) be the area of the quadrilateral OABC and q (in sq. units) be the area of the parallelogram with $\overrightarrow{OA}$ and $\overrightarrow{OC}$ as adjacent sides, then $\frac{p}{q}$ is equal to :

Options :

41652960374. 3

41652960375. 4

41652960376. 6

41652960377. 8

Question Number : 24 Question Id : 41652915421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

$\overrightarrow{OB} = 10\vec{a} + 2\vec{b}$ हैं । माना चतुर्भुज OABC का क्षेत्रफल (वर्ग इकाइयों में) p है तथा समांतर चतुर्भुज जिसकी संलग्न भुजाएं $\overrightarrow{OA}$ तथा $\overrightarrow{OC}$ हैं, का क्षेत्रफल (वर्ग इकाइयों में) q है, तो $\frac{p}{q}$ बराबर है :

Options :

41652960374. 3

41652960375. 4

41652960376. 6

41652960377. 8

Question Number : 25 Question Id : 41652915422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960378. $\frac{2}{5}$

41652960379. $\frac{4}{15}$

41652960380. $\frac{7}{25}$

41652960381. $\frac{18}{35}$

Question Number : 25 Question Id : 41652915422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960378. $\frac{2}{5}$

41652960379. $\frac{4}{15}$

41652960380. $\frac{7}{25}$

41652960381. $\frac{18}{35}$

Question Number : 26 Question Id : 41652915423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960382. 0.160

41652960383. 0.052

41652960384. 0.016

41652960385. 0.014

Question Number : 26 Question Id : 41652915423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960382. 0.160

41652960383. 0.052

41652960384. 0.016

41652960385. 0.014

Question Number : 27 Question Id : 41652915424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

x	0	1	2	3
frequency	2	5	4	1

is :

Options :

41652960386. $\frac{4}{3}$

41652960387. $\frac{13}{18}$

41652960388. $\frac{5}{6}$

41652960389. $\frac{5}{9}$

Question Number : 27 Question Id : 41652915424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

बारंबारता बंटन

x	0	1	2	3
बारंबारता	2	5	4	1

में आँकड़ों का माध्य के सापेक्ष माध्य विचलन है :

Options :

41652960386. $\frac{4}{3}$

41652960387. $\frac{13}{18}$

41652960388. $\frac{5}{6}$

41652960389. $\frac{5}{9}$

Question Number : 28 Question Id : 41652915425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Let $S=\{\theta \in (0,2\pi) : 2\sin\theta(4\sin\theta-\sin3\theta)=3\}$.

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

Options :

41652960390. 12

41652960391. 6

41652960392. 4

41652960393. 2

Question Number : 28 Question Id : 41652915425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

माना $S=\{\theta \in (0,2\pi) : 2\sin\theta(4\sin\theta-\sin3\theta)=3\}$

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

Options :

41652960390. 12

41652960391. 6

41652960392. 4

41652960393. 2

Question Number : 29 Question Id : 41652915426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960394. $AC = \frac{5}{2}\left(\sqrt{3}+1\right)$

41652960395. $CD = \frac{5}{2}(3 + \sqrt{3})$

41652960396. $BD = 5\sqrt{3}$

41652960397. $AD = 5(\sqrt{3} + 1)$

Question Number : 29 Question Id : 41652915426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960394. $AC = \frac{5}{2}(\sqrt{3} + 1)$

41652960395. $CD = \frac{5}{2}(3 + \sqrt{3})$

41652960396. $BD = 5\sqrt{3}$

41652960397. $AD = 5(\sqrt{3} + 1)$

Question Number : 30 Question Id : 41652915427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is a tautology ?

Options :

41652960398. $p \wedge (\sim (p \wedge q))$

41652960399. $(p \wedge q) \vee (\sim (p \vee q))$

41652960400. $(p \vee q) \wedge (\sim (p \wedge q))$

41652960401. $q \vee (\sim (p \wedge q))$

Question Number : 30 Question Id : 41652915427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

निम्न में से कौन सा कथन एक पुनरुक्ति है?

Options :

41652960398. $p \wedge (\sim (p \wedge q))$

41652960399. $(p \wedge q) \vee (\sim (p \vee q))$

41652960400. $(p \vee q) \wedge (\sim (p \wedge q))$

41652960401. $q \vee (\sim (p \wedge q))$

Aptitude Test

Section Id :	416529341
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	8
Number of Questions to be attempted:	8
Section Marks:	200
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529497
Question Shuffling Allowed :	Yes

Question Id : 41652915428 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (31 to 45)

Question Label : Comprehension

Sub questions

Question Number : 31 Question Id : 41652915429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960402. Linga

41652960403. Nandi

41652960404. Stupa

41652960405. Cross

Question Number : 32 Question Id : 41652915430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960406. Bihar

41652960407. Odisha

41652960408. Jharkhand

41652960409. Chattisgarh

Question Number : 33 Question Id : 41652915431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960410. Riser

41652960411. Tread

41652960412. Rail

41652960413. Baluster

Question Number : 34 Question Id : 41652915432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960414. Bhopal

41652960415. Allahabad

41652960416. Ellora

41652960417. Bijnor

Question Number : 35 Question Id : 41652915433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960418. Blue

41652960419. Black

41652960420. Yellow

41652960421. Red

Question Number : 36 Question Id : 41652915434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Who amongst the following designed the Madhya Pradesh Assembly building ?

Options :

41652960422. B.V. Doshi

41652960423. Raj Rewal

41652960424. Charles Correa

41652960425. Prem Nath

Question Number : 37 Question Id : 41652915435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following is the tallest building in Kolkata ?

Options :

41652960426. The 48

41652960427. The 42

41652960428. The 45

41652960429. The 46

Question Number : 38 Question Id : 41652915436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960430. Raj Rewal

41652960431. Charles Correa

41652960432. Le Corbusier

41652960433. B.V. Doshi

Question Number : 39 Question Id : 41652915437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960434. Rough

41652960435. Smooth

41652960436. Corrugated

41652960437. Bumpy

Question Number : 40 Question Id : 41652915438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960438. London

41652960439. Paris

41652960440. Venice

41652960441. Frankfurt

Question Number : 41 Question Id : 41652915439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960442. North

41652960443. South

41652960444. East

41652960445. West

Question Number : 42 Question Id : 41652915440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960446. Plywood

41652960447. Glass

41652960448. Architectural hardware

41652960449. Tiles

Question Number : 43 Question Id : 41652915441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960450. 300 mm

41652960451. 330 mm

41652960452. 230 mm

41652960453. 400 mm

Question Number : 44 Question Id : 41652915442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960454. Green

41652960455. Purple

41652960456. Orange

41652960457. Black

Question Number : 45 Question Id : 41652915443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960458. Holding the roof

41652960459. Draining rain water

41652960460. Decoration

41652960461. Protecting windows

Question Id : 41652915428 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (31 to 45)

Question Label : Comprehension

.

Sub questions

Question Number : 31 Question Id : 41652915429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960402. लिंग

41652960403. नंदी

41652960404. स्तूप

41652960405. क्रॉस

Question Number : 32 Question Id : 41652915430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960406. बिहार

41652960407. ओडिशा

41652960408. झारखंड

41652960409. छत्तीसगढ़

Question Number : 33 Question Id : 41652915431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960410. उठने वाला

41652960411. कदम रखना (ट्रेड)

41652960412. रेल

41652960413. छोटा खंभा (बैलूस्टर)

Question Number : 34 Question Id : 41652915432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960414. भोपाल

41652960415. इलाहाबाद

41652960416. एलोरा

41652960417. बिजनौर

Question Number : 35 Question Id : 41652915433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960418. नीला

41652960419. काला

41652960420. पीला

41652960421. लाल

Question Number : 36 Question Id : 41652915434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960422. बी.वी. दोशी

41652960423. राज रेवाल

41652960424. चार्ल्स कोरीया

41652960425. प्रेम नाथ

Question Number : 37 Question Id : 41652915435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960426. 48

41652960427. 42

41652960428. 45

41652960429. 46

Question Number : 38 Question Id : 41652915436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960430. राज रेवाल

41652960431. चार्ल्स कोरीया

41652960432. ले कोर्बुसीयर

41652960433. बी.वी. दोशी

Question Number : 39 Question Id : 41652915437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960434. रूखा

41652960435. चिकना

41652960436. नालीदार

41652960437. ऊबड़

Question Number : 40 Question Id : 41652915438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960438. लंदन

41652960439. पेरिस

41652960440. वेनिस

41652960441. फ्रैंकफर्ट

Question Number : 41 Question Id : 41652915439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960442. उत्तर

41652960443. दक्षिण

41652960444. पूर्व

41652960445. पश्चिम

Question Number : 42 Question Id : 41652915440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960446. प्लाईवुड

41652960447. ग्लास (काँच)

41652960448. स्थापत्य हार्डवेयर

41652960449. टाइलें

Question Number : 43 Question Id : 41652915441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

एक ईंट की सामान्य दीवार की मोटाई कितनी होती है?

Options :

41652960450. 300 मि.मी.

41652960451. 330 मि.मी.

41652960452. 230 मि.मी.

41652960453. 400 मि.मी.

Question Number : 44 Question Id : 41652915442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960454. हरा

41652960455. बैंगनी

41652960456. नारंगी

41652960457. काला

Question Number : 45 Question Id : 41652915443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

Options :

41652960458. छत को पकड़ना

41652960459. बरसाती पानी गिराना

41652960460. सजावट

41652960461. खिड़कियों की सुरक्षा करना

Sub-Section Number: 2
Sub-Section Id: 416529498
Question Shuffling Allowed : Yes

Question Id : 41652915444 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 50)

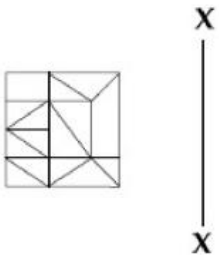
Question Label : Comprehension

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

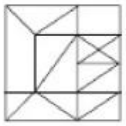
Sub questions

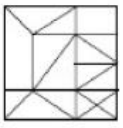
Question Number : 46 Question Id : 41652915445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

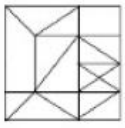
Correct Marks : 4 Wrong Marks : 1

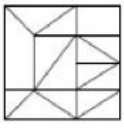


Options :

41652960462. 

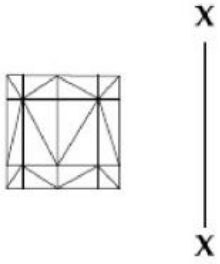
41652960463. 

41652960464. 

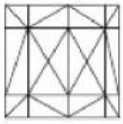
41652960465. 

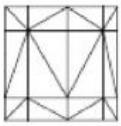
Question Number : 47 Question Id : 41652915446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

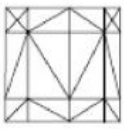
Correct Marks : 4 Wrong Marks : 1

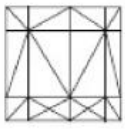


Options :

41652960466. 

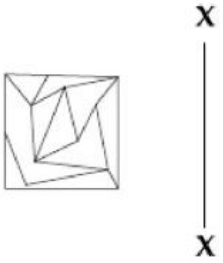
41652960467. 

41652960468. 

41652960469. 

Question Number : 48 Question Id : 41652915447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960470. 

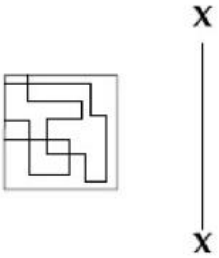
41652960471. 

41652960472. 

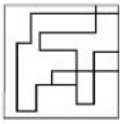
41652960473. 

Question Number : 49 Question Id : 41652915448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

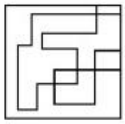


Options :

41652960474. 

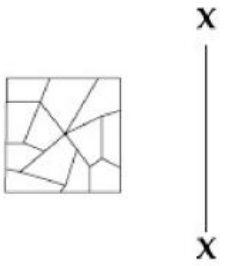
41652960475. 

41652960476. 

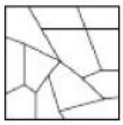
41652960477. 

Question Number : 50 Question Id : 41652915449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960478. 

41652960479. 

41652960480. 

41652960481. 

Question Id : 41652915444 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 50)

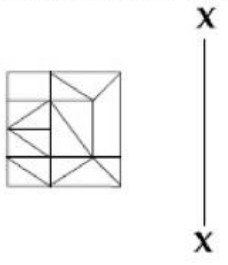
Question Label : Comprehension

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

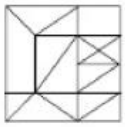
Sub questions

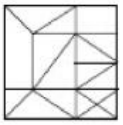
Question Number : 46 Question Id : 41652915445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

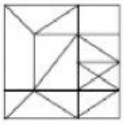
Correct Marks : 4 Wrong Marks : 1

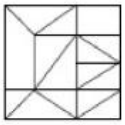


Options :

41652960462. 

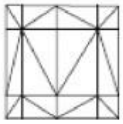
41652960463. 

41652960464. 

41652960465. 

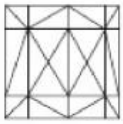
Question Number : 47 Question Id : 41652915446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

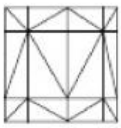
Correct Marks : 4 Wrong Marks : 1

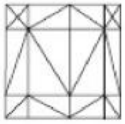


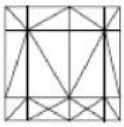


Options :

41652960466. 

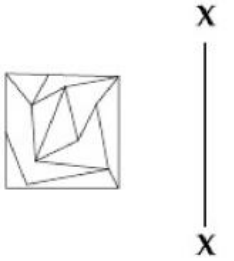
41652960467. 

41652960468. 

41652960469. 

Question Number : 48 Question Id : 41652915447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960470. 

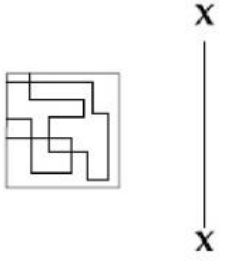
41652960471. 

41652960472. 

41652960473. 

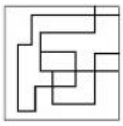
Question Number : 49 Question Id : 41652915448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

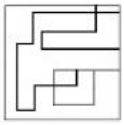
Correct Marks : 4 Wrong Marks : 1

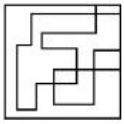


Options :

41652960474. 

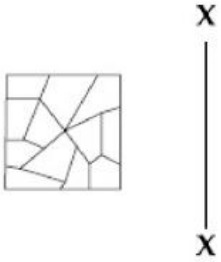
41652960475. 

41652960476. 

41652960477. 

Question Number : 50 Question Id : 41652915449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960478. 

41652960479. 

41652960480. 

41652960481. 

Sub-Section Number:	3
Sub-Section Id:	416529499
Question Shuffling Allowed :	Yes

Question Id : 41652915450 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (51 to 55)

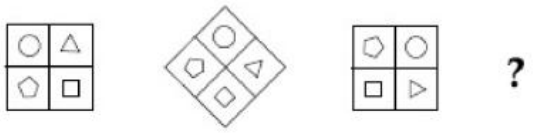
Question Label : Comprehension

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

Sub questions

Question Number : 51 Question Id : 41652915451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

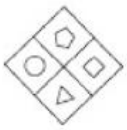


Options :

41652960482. 

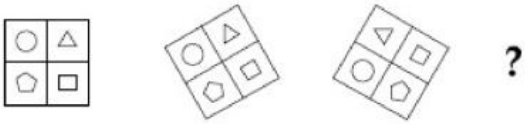
41652960483. 

41652960484. 

41652960485. 

Question Number : 52 Question Id : 41652915452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

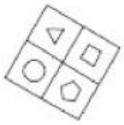
Correct Marks : 4 Wrong Marks : 1



Options :

41652960486. 

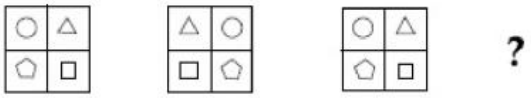
41652960487. 

41652960488. 

41652960489. 

Question Number : 53 Question Id : 41652915453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960490. 

41652960491. 

41652960492. 

41652960493. 

Question Number : 54 Question Id : 41652915454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960494. 

41652960495. 

41652960496. 

41652960497. 

Question Number : 55 Question Id : 41652915455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960498. 

41652960499. 

41652960500. 

41652960501. 

Question Id : 41652915450 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (51 to 55)

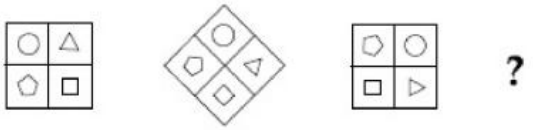
Question Label : Comprehension

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

Sub questions

Question Number : 51 Question Id : 41652915451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

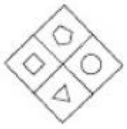
Correct Marks : 4 Wrong Marks : 1



Options :

41652960482. 

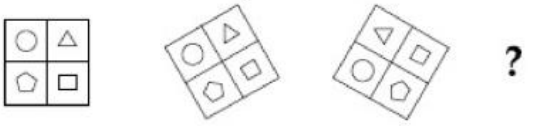
41652960483. 

41652960484. 

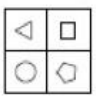
41652960485. 

Question Number : 52 Question Id : 41652915452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960486. 

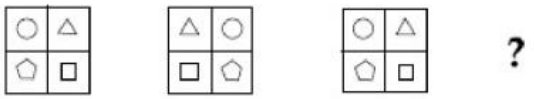
41652960487. 

41652960488. 

41652960489. 

Question Number : 53 Question Id : 41652915453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960490. 

41652960491. 

41652960492. 

41652960493. 

Question Number : 54 Question Id : 41652915454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960494. 

41652960495. 

41652960496. 

41652960497. 

Question Number : 55 Question Id : 41652915455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960498. 

41652960499. 

41652960500. 

41652960501. 

Sub-Section Number:	4
Sub-Section Id:	416529500
Question Shuffling Allowed :	Yes

Question Id : 41652915456 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

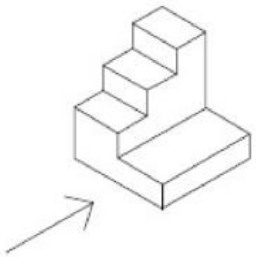
Question Label : Comprehension

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

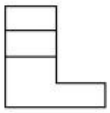
Sub questions

Question Number : 56 Question Id : 41652915457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

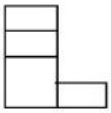
Correct Marks : 4 Wrong Marks : 1

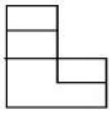


Options :

41652960502. 

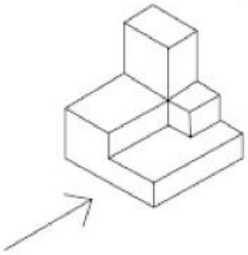
41652960503. 

41652960504. 

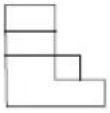
41652960505. 

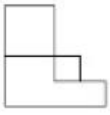
Question Number : 57 Question Id : 41652915458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

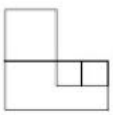
Correct Marks : 4 Wrong Marks : 1

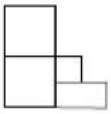


Options :

41652960506. 

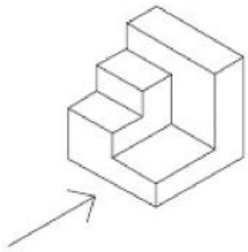
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41652960508. 

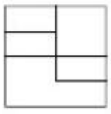
41652960509. 

Question Number : 58 Question Id : 41652915459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

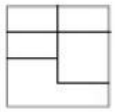
Correct Marks : 4 Wrong Marks : 1

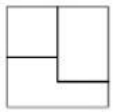


Options :

41652960510. 

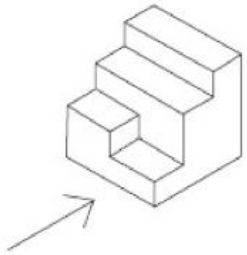
41652960511. 

41652960512. 

41652960513. 

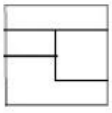
Question Number : 59 Question Id : 41652915460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

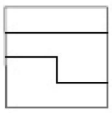
Correct Marks : 4 Wrong Marks : 1

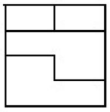


Options :

41652960514. 

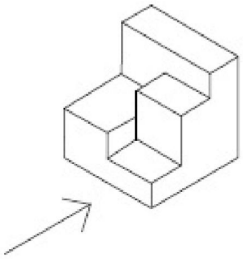
41652960515. 

41652960516. 

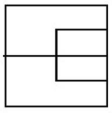
41652960517. 

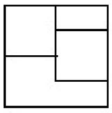
Question Number : 60 Question Id : 41652915461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

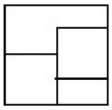
Correct Marks : 4 Wrong Marks : 1

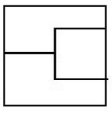


Options :

41652960518. 

41652960519. 

41652960520. 

41652960521. 

Question Id : 41652915456 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

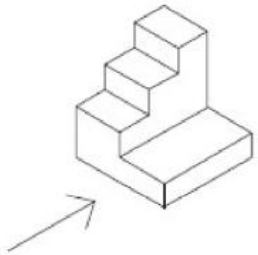
Question Label : Comprehension

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

Sub questions

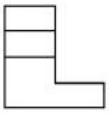
Question Number : 56 Question Id : 41652915457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

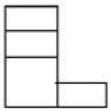
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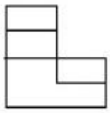
41652960503.



41652960504.

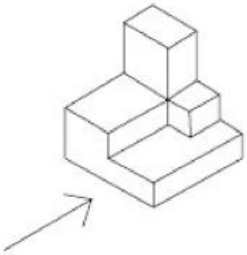


41652960505.



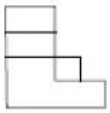
Question Number : 57 Question Id : 41652915458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

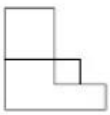


Options :

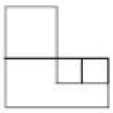
41652960506.



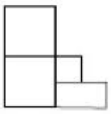
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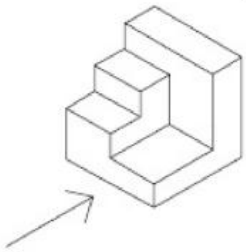


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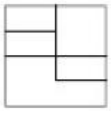
Question Number : 58 Question Id : 41652915459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

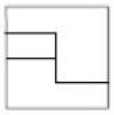


Options :

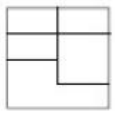
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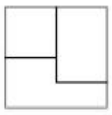
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41652960512.

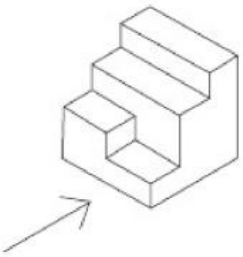


41652960513.



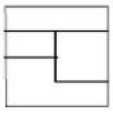
Question Number : 59 Question Id : 41652915460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

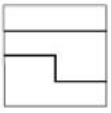
Correct Marks : 4 Wrong Marks : 1

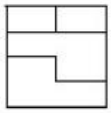


Options :

41652960514. 

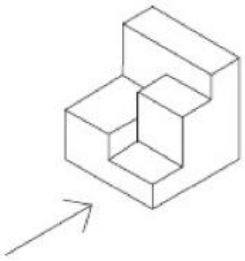
41652960515. 

41652960516. 

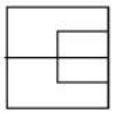
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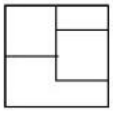
Question Number : 60 Question Id : 41652915461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

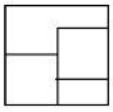
Correct Marks : 4 Wrong Marks : 1

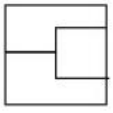


Options :

41652960518. 

41652960519. 

41652960520. 

41652960521. 

Sub-Section Number:	5
Sub-Section Id:	416529501
Question Shuffling Allowed :	Yes

Question Id : 41652915462 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (61 to 65)

Question Label : Comprehension

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

Sub questions

Question Number : 61 Question Id : 41652915463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960522. 

41652960523. 

41652960524. 

41652960525. 

Question Number : 62 Question Id : 41652915464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960526. 

41652960527. 

41652960528. 

41652960529. 

Question Number : 63 Question Id : 41652915465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960530. 

41652960531. 

41652960532. 

41652960533. 

Question Number : 64 Question Id : 41652915466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960534. 

41652960535. 

41652960536. 

41652960537. 

Question Number : 65 Question Id : 41652915467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960538. 

41652960539. 

41652960540. 

41652960541. 

Question Id : 41652915462 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (61 to 65)

Question Label : Comprehension

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

Sub questions

Question Number : 61 Question Id : 41652915463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960522. 

41652960523. 

41652960524. 

41652960525. 

Question Number : 62 Question Id : 41652915464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960526. 

41652960527. 

41652960528. 

41652960529. 

Question Number : 63 Question Id : 41652915465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960530. 

41652960531. 

41652960532. 

41652960533. 

Question Number : 64 Question Id : 41652915466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960534. 

41652960535. 

41652960536. 

41652960537. 

Question Number : 65 Question Id : 41652915467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960538. 

41652960539. 

41652960540. 

41652960541. 

Sub-Section Number:	6
Sub-Section Id:	416529502
Question Shuffling Allowed :	Yes

Question Id : 41652915468 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (66 to 70)

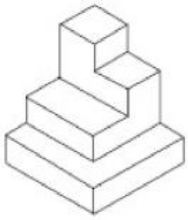
Question Label : Comprehension

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

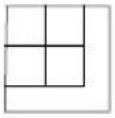
Sub questions

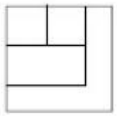
Question Number : 66 Question Id : 41652915469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

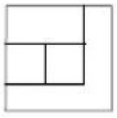
Correct Marks : 4 Wrong Marks : 1

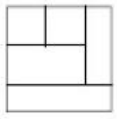


Options :

41652960542. 

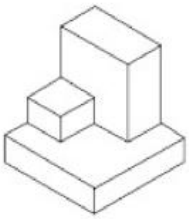
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41652960544. 

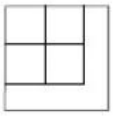
41652960545. 

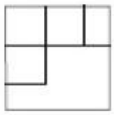
Question Number : 67 Question Id : 41652915470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

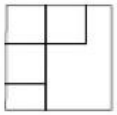
Correct Marks : 4 Wrong Marks : 1

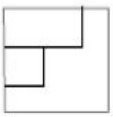


Options :

41652960546. 

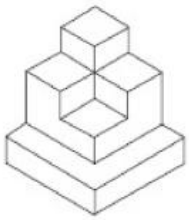
41652960547. 

41652960548. 

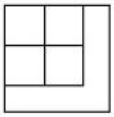
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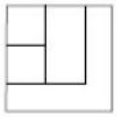
Question Number : 68 Question Id : 41652915471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

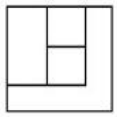
Correct Marks : 4 Wrong Marks : 1

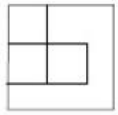


Options :

41652960550. 

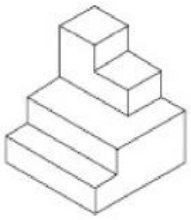
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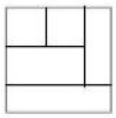
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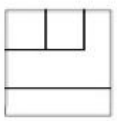
Question Number : 69 Question Id : 41652915472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

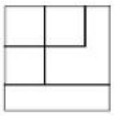
Correct Marks : 4 Wrong Marks : 1

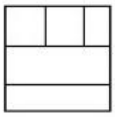


Options :

41652960554. 

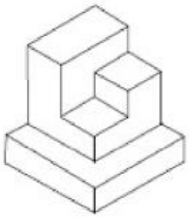
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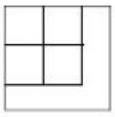
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Question Number : 70 Question Id : 41652915473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

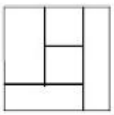
Correct Marks : 4 Wrong Marks : 1

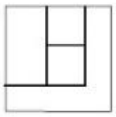


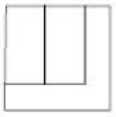
Options :



41652960558.

41652960559. 

41652960560. 

41652960561. 

Question Id : 41652915468 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (66 to 70)

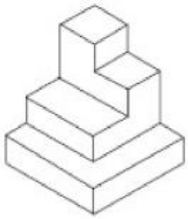
Question Label : Comprehension

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

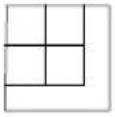
Sub questions

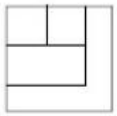
Question Number : 66 Question Id : 41652915469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

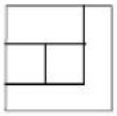
Correct Marks : 4 Wrong Marks : 1

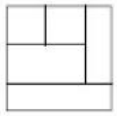


Options :

41652960542. 

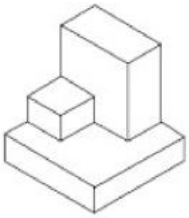
41652960543. 

41652960544. 

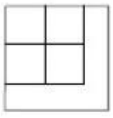
41652960545. 

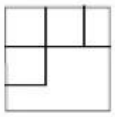
Question Number : 67 Question Id : 41652915470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

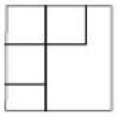
Correct Marks : 4 Wrong Marks : 1

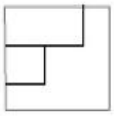


Options :

41652960546. 

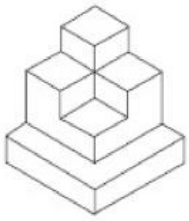
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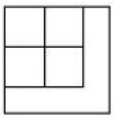
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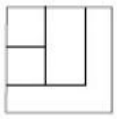
Question Number : 68 Question Id : 41652915471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

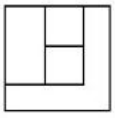
Correct Marks : 4 Wrong Marks : 1

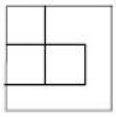


Options :

41652960550. 

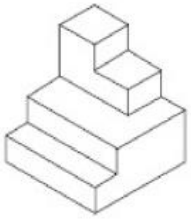
41652960551. 

41652960552. 

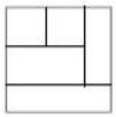
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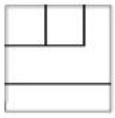
Question Number : 69 Question Id : 41652915472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

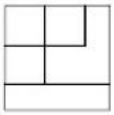
Correct Marks : 4 Wrong Marks : 1

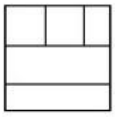


Options :

41652960554. 

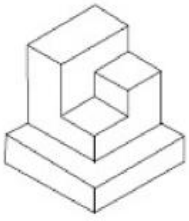
41652960555. 

41652960556. 

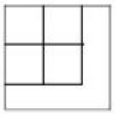
41652960557. 

Question Number : 70 Question Id : 41652915473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

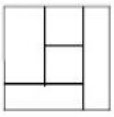
Correct Marks : 4 Wrong Marks : 1

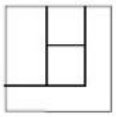


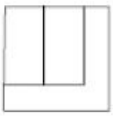
Options :



41652960558.

41652960559. 

41652960560. 

41652960561. 

Sub-Section Number:	7
Sub-Section Id:	416529503
Question Shuffling Allowed :	Yes

Question Id : 41652915474 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (71 to 75)

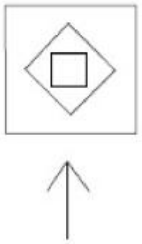
Question Label : Comprehension

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

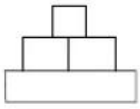
Sub questions

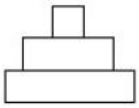
Question Number : 71 Question Id : 41652915475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

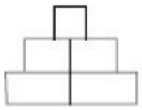
Correct Marks : 4 Wrong Marks : 1

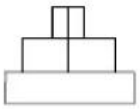


Options :

41652960562. 

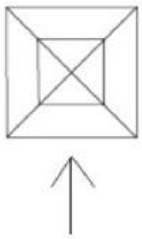
41652960563. 

41652960564. 

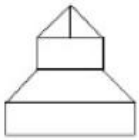
41652960565. 

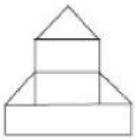
Question Number : 72 Question Id : 41652915476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

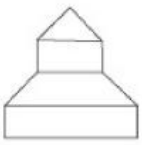
Correct Marks : 4 Wrong Marks : 1

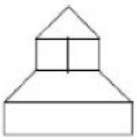


Options :

41652960566. 

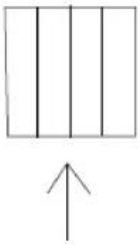
41652960567. 

41652960568. 

41652960569. 

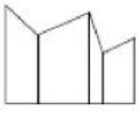
Question Number : 73 Question Id : 41652915477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960570. 

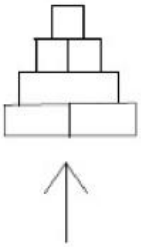
41652960571. 

41652960572. 

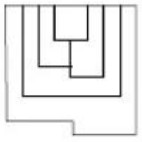
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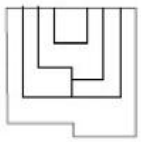
Question Number : 74 Question Id : 41652915478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

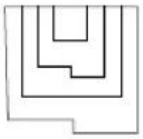
Correct Marks : 4 Wrong Marks : 1

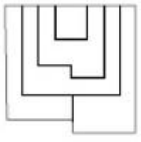


Options :

41652960574. 

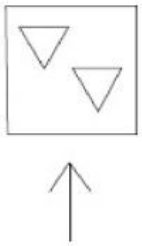
41652960575. 

41652960576. 

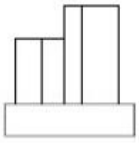
41652960577. 

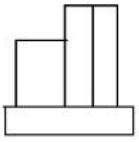
Question Number : 75 Question Id : 41652915479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

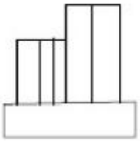
Correct Marks : 4 Wrong Marks : 1

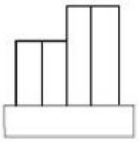


Options :

41652960578. 

41652960579. 

41652960580. 

41652960581. 

Question Id : 41652915474 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (71 to 75)

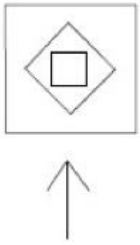
Question Label : Comprehension

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

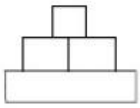
Sub questions

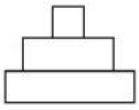
Question Number : 71 Question Id : 41652915475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

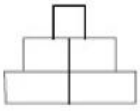
Correct Marks : 4 Wrong Marks : 1

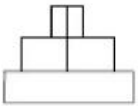


Options :

41652960562. 

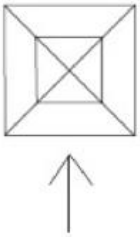
41652960563. 

41652960564. 

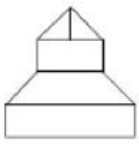
41652960565. 

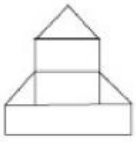
Question Number : 72 Question Id : 41652915476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

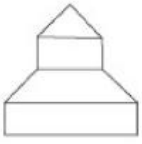
Correct Marks : 4 Wrong Marks : 1

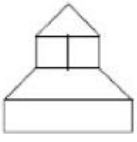


Options :

41652960566. 

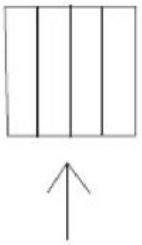
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41652960568. 

41652960569. 

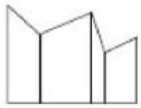
Question Number : 73 Question Id : 41652915477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



Options :

41652960570. 

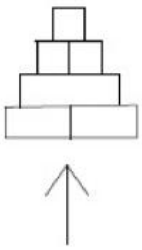
41652960571. 

41652960572. 

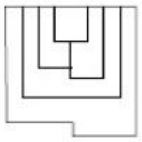
41652960573. 

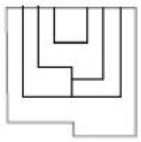
Question Number : 74 Question Id : 41652915478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

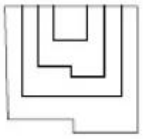
Correct Marks : 4 Wrong Marks : 1

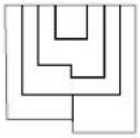


Options :

41652960574. 

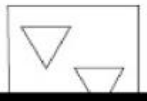
41652960575. 

41652960576. 

41652960577. 

Question Number : 75 Question Id : 41652915479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



[redacted]

Sub-Section Number:	8
Sub-Section Id:	416529504
Question Shuffling Allowed :	Yes

Question Id : 41652915480 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (76 to 80)

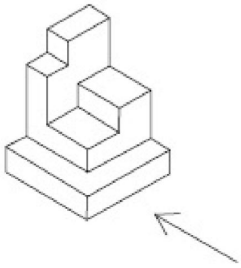
Question Label : Comprehension

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

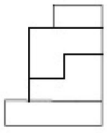
Sub questions

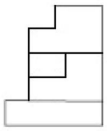
Question Number : 76 Question Id : 41652915481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

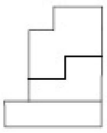
Correct Marks : 4 Wrong Marks : 1

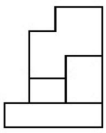


Options :

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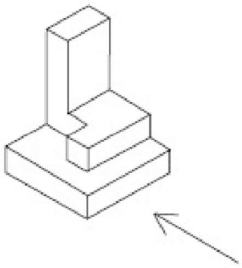
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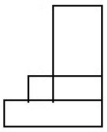
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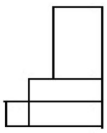
Question Number : 77 Question Id : 41652915482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

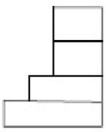
Correct Marks : 4 Wrong Marks : 1

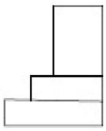


Options :

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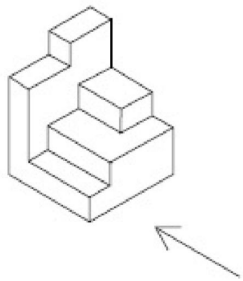
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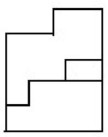
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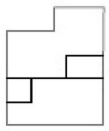
Question Number : 78 Question Id : 41652915483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

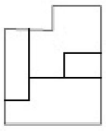
Correct Marks : 4 Wrong Marks : 1

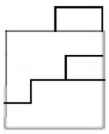


Options :

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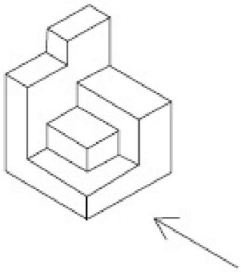
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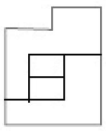
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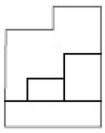
Question Number : 79 Question Id : 41652915484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

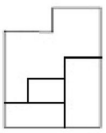
Correct Marks : 4 Wrong Marks : 1

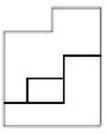


Options :

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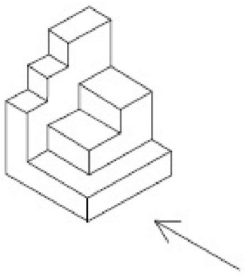
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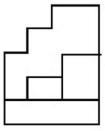
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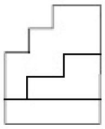
Question Number : 80 Question Id : 41652915485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

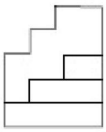
Correct Marks : 4 Wrong Marks : 1

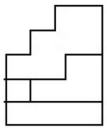


Options :

41652960598. 

41652960599. 

41652960600. 

41652960601. 

Question Id : 41652915480 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (76 to 80)

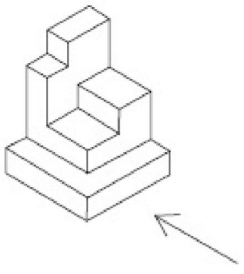
Question Label : Comprehension

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

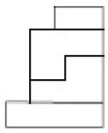
Sub questions

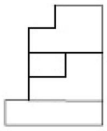
Question Number : 76 Question Id : 41652915481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

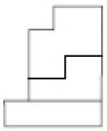
Correct Marks : 4 Wrong Marks : 1

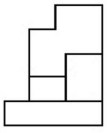


Options :

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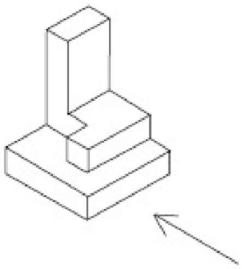
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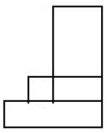
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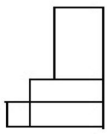
Question Number : 77 Question Id : 41652915482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

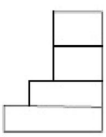
Correct Marks : 4 Wrong Marks : 1

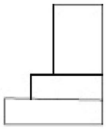


Options :

41652960586. 

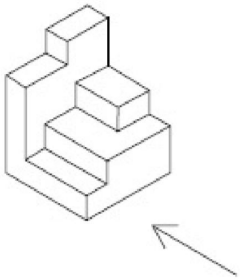
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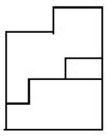
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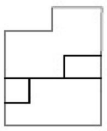
Question Number : 78 Question Id : 41652915483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

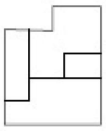
Correct Marks : 4 Wrong Marks : 1

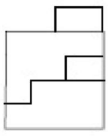


Options :

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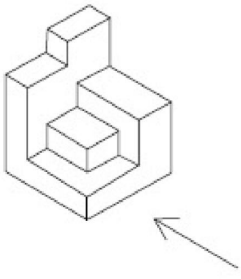
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41652960592. 

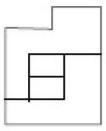
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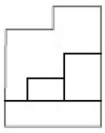
Question Number : 79 Question Id : 41652915484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

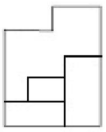
Correct Marks : 4 Wrong Marks : 1

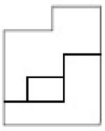


Options :

41652960594. 

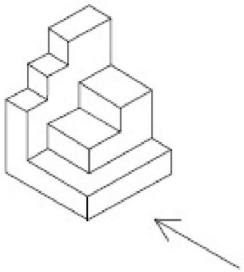
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41652960596. 

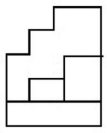
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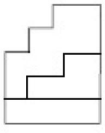
Question Number : 80 Question Id : 41652915485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

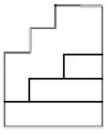
Correct Marks : 4 Wrong Marks : 1

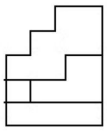


Options :

41652960598. 

41652960599. 

41652960600. 

41652960601. 

Drawing

Section Id :	416529342
Section Number :	3
Section type :	Offline
Mandatory or Optional:	Mandatory
Number of Questions:	3
Number of Questions to be attempted:	3
Section Marks:	70
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	416529505
Question Shuffling Allowed :	No

Question Number : 81 Question Id : 41652915486 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

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

Question Number : 81 Question Id : 41652915486 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

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

Question Number : 82 Question Id : 41652915487 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

Copy the graphic image shown in the space provided for the answer of this question. Credit will be given to the exactness of your answer. 20 marks



Question Number : 82 Question Id : 41652915487 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 20

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



Sub-Section Number:	2
Sub-Section Id:	416529506
Question Shuffling Allowed :	No

Question Number : 83 Question Id : 41652915488 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 30

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

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

OR

Draw an imaginary picture of a restaurant.

OR

Draw from imagination a picture of an Indian leader.

Question Number : 83 Question Id : 41652915488 Question Type : SUBJECTIVE Display Question Number : Yes Correct Marks : 30

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

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

या

एक रेस्तरां की एक काल्पनिक तस्वीर चित्रित करें।

या

भारतीय नेता की तस्वीर कल्पना से चित्रित करें।