JEE MAIN

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QUESTION PAPER

2024

JOINT ENTRANCE EXAMINATION - MAIN

PREVIOUS YEAR QUESTION PAPER

National Testing Agency

Question Paper Name :	B Arch 12th April 2024 Shift 1
Subject Name :	B. Arch
Creation Date :	2024-04-12 17:48:22
Duration :	180
Total Marks :	400
Display Marks:	Yes

B. Arch

Group Number :	1
Group Id :	680191192
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	400
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Mathematics Section A

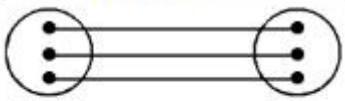
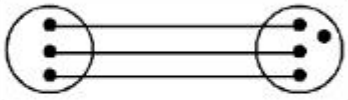
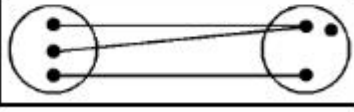
Section Id :	680191286
Section Number :	1

Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	680191376
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 1 Question Id : 68019114801 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

LIST I		LIST II	
A.		I.	Neither surjective nor injective
B.		II.	Surjective but not injective
C.		III.	Injective but not surjective
D.		IV.	Injective and surjective

Choose the correct answer from the options given below:

Options :

68019157461. A-IV, B-II, C-III, D-I

68019157462. A-I, B-II, C-IV, D-III

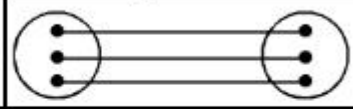
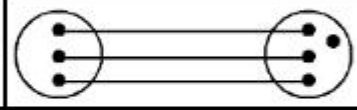
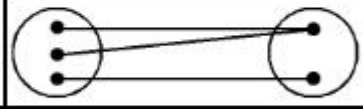
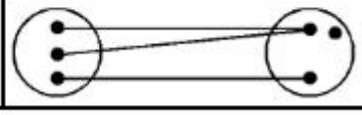
68019157463. A-IV, B-III, C-II, D-I

68019157464. A-IV, B-III, C-I, D-II

Question Number : 1 Question Id : 68019114801 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I का **सूची II** से मिलान कीजिए

सूची I		सूची II	
A.		I.	न तो आच्छादी है न ही एकैकी है
B.		II.	आच्छादी है पर एकैकी नहीं है
C.		III.	एकैकी है पर आच्छादी नहीं है
D.		IV.	एकैकी और आच्छादी हैं

नीचे दिए विकल्पों में से सही ऊत्तर चुनिए :

Options :

68019157461. A-IV, B-II, C-III, D-I

68019157462. A-I, B-II, C-IV, D-III

68019157463. A-IV, B-III, C-II, D-I

68019157464. A-IV, B-III, C-I, D-II

Question Number : 2 Question Id : 68019114802 Question Type : MCQ Option Shuffling : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

A college awarded 38 medals for cricket, 15 for tennis and 20 for football. If these medals were bagged by a total of 58 students and only 3 students got medals for all the three games, then how many students received medals for exactly two of the three games?

Options :

68019157465. 9

68019157466. 18

68019157467. 12

68019157468. 6

Question Number : 2 Question Id : 68019114802 Question Type : MCQ Option Shuffling : Ye

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

Correct Marks : 4 Wrong Marks : 1

एक कालेज ने क्रिकेट के लिए 38, टेनिस के लिए 15 तथा फुटबाल के लिए 20 मेडल दिए। यदि यह मेडल कुल 58 छात्रों द्वारा प्राप्त किए गए तथा केवल 3 छात्रों नें सभी तीनों खेलों के लिए मेडल प्राप्त किए, तो कितने छात्रों ने तीन खेलों में से ठीक दो में मेडल प्राप्त किए ?

Options :

68019157465. 9

68019157466. 18

68019157467. 12

68019157468. 6

Question Number : 3 Question Id : 68019114803 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If α and β are the roots of $ax^2 + bx + c = 0$, then the value of $\frac{1}{(a\alpha+b)^2} + \frac{1}{(a\beta+b)^2}$ is

Options :

68019157469. $\frac{b^2-2c}{c^2}$

68019157470. $\frac{b^2-2ac}{(ac)^2}$

68019157471. $\frac{b^2-2c}{c}$

68019157472. $\frac{b^2-2ac}{ac}$

Question Number : 3 Question Id : 68019114803 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि $ax^2 + bx + c = 0$ के मूल α तथा β हैं, तो $\frac{1}{(a\alpha+b)^2} + \frac{1}{(a\beta+b)^2}$ का मान है :

Options :

68019157469. $\frac{b^2-2c}{c^2}$

68019157470.

$\frac{b^2-2ac}{(ac)^2}$

68019157471. $\frac{b^2-2c}{c}$

68019157472. $\frac{b^2-2ac}{ac}$

Question Number : 4 Question Id : 68019114804 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let $A=\begin{bmatrix}1&2&3&4\\5&6&7&8\\9&9&9&9\\8&8&8&8\end{bmatrix}$, then determinant of A =

Options :

68019157473. -1

68019157474. 0

68019157475. 1

68019157476. 72

Question Number : 4 Question Id : 68019114804 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि $A=\begin{bmatrix}1 & 2 & 3 & 4\\5 & 6 & 7 & 8\\9 & 9 & 9 & 9\\8 & 8 & 8 & 8\end{bmatrix}$ है, तो A का सारणिक =

Options :

68019157473. -1

68019157474. 0

68019157475. 1

68019157476. 72

Question Number : 5 Question Id : 68019114805 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In how many ways can we select four cards from an ordinary pack of playing cards so that two of them are of the same denomination and the remaining two are of some other same denomination?

Options :

68019157477. 78

68019157478. 150

68019157479. 715

68019157480. 5616

Question Number : 5 Question Id : 68019114805 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

हम खेलने योग्य ताश के पत्तों की एक साधारण ताश की गड्डी से चार ताश के पत्तों को कितने तरीकों से चुन सकते हैं कि उनमें से दो एक ही मान के तथा शेष दो किसी अन्य एक ही मान के हों?

Options :

68019157477. 78

68019157478. 150

68019157479. 715

68019157480. 5616

Question Number : 6 Question Id : 68019114806 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the coefficient of x^7 and x^8 in the expansion of $\left(2+\frac{x}{3}\right)^n$ are equal, then n is

Options :

68019157481. 56

68019157482. 55

68019157483. 45

68019157484. 15

Question Number : 6 Question Id : 68019114806 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि $\left(2+\frac{x}{3}\right)^n$ के प्रसार में x^7 तथा x^8 के गुणांक बराबर है, तो n बराबर है :

Options :

68019157481. 56

68019157482. 55

68019157483. 45

68019157484. 15

Question Number : 7 Question Id : 68019114807 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The sum of all those terms of the arithmetic progression 2, 6, 10, 14, ... , 598 which are **not** divisible by 3, is equal to

Options :

68019157485. 30300

68019157486. 30000

68019157487. 29400

68019157488. 30600

Question Number : 7 Question Id : 68019114807 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

समांतर श्रेणी 2, 6, 10, 14, ... , 598 के 3 से विभाजित **न होने** वाले सभी पदों का योग है:

Options :

68019157485. 30300

68019157486. 30000

68019157487. 29400

68019157488. 30600

Question Number : 8 Question Id : 68019114808 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The first two terms of a G.P. are x^{-3} and x^n, respectively. If x^{42} is the sixth term of the same progression, then n^2 is equal to

Options :

68019157489. 16

68019157490. 9

68019157491. 36

68019157492. 25

Question Number : 8 Question Id : 68019114808 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक G.P. के प्रथम दो पद क्रमशः x^{-3} तथा x^n हैं। यदि इस श्रेणी का छठा पद x^{42} है, तो n^2 बराबर है :

Options :

68019157489. 16

68019157490. 9

68019157491. 36

68019157492. 25

Question Number : 9 Question Id : 68019114809 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Suppose L is the line joining the points (0, 0) and (1, 2). If a line parallel to L meets the curve $y = 2x^2 + 3x + 1$ only at a single point P, then the point P is

Options :

68019157493. $\left(\frac{1}{4}, \frac{3}{8}\right)$

68019157494. $(2, 15)$

68019157495. $\left(\frac{-1}{4}, \frac{3}{8}\right)$

68019157496. $\left(\frac{-3}{4}, \frac{5}{16}\right)$

Question Number : 9 Question Id : 68019114809 Question Type : MCQ Option Shuffling : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

माना कि बिन्दुओं $(0, 0)$ तथा $(1, 2)$ को जोड़ने वाली रेखा L है। यदि कोई रेखा L के समानांतर है जो वक्र $y = 2x^2 + 3x + 1$ को केवल एक ही बिन्दु P पर मिलती है, तो बिन्दु P है :

Options :

68019157493. $\left(\frac{1}{4}, \frac{3}{8}\right)$

68019157494. $(2, 15)$

68019157495. $\left(\frac{-1}{4}, \frac{3}{8}\right)$

68019157496. $\left(\frac{-3}{4}, \frac{5}{16}\right)$

Question Number : 10 Question Id : 68019114810 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

A manufacturer can sell x items at a price of ₹ $\left(5-\frac{x}{100}\right)$ each. The cost price of x items is ₹ $\left(\frac{x}{5}+500\right)$. The number of items he should sell to reach maximum profit is

Options :

68019157497. 100

68019157498. 240

68019157499. 500

68019157500. 480

Question Number : 10 Question Id : 68019114810 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक निर्माता x वस्तुओं को, ₹ $\left(5-\frac{x}{100}\right)$ प्रति वस्तु की कीमत से बेच सकता है। x वस्तुओं का क्रय मूल्य ₹ $\left(\frac{x}{5}+500\right)$ है। अधिकतम लाभ प्राप्त करने के लिए उसे कितनी वस्तुएँ बेचनी चाहिएं ?

Options :

68019157497. 100

68019157498. 240

68019157499. 500

68019157500. 480

Question Number : 11 Question Id : 68019114811 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The value of $\int_0^1 \log_e\left(\frac{1}{x}-1\right)dx$ is

Options :

68019157501. 0

68019157502. $\frac{1}{2}$

68019157503. 1

68019157504. 2

Question Number : 11 Question Id : 68019114811 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

$\int_0^1 \log_e\left(\frac{1}{x}-1\right)dx$ का मान बराबर है:

Options :

68019157501. 0

68019157502. $\frac{1}{2}$

68019157503. 1

68019157504. 2

Question Number : 12 Question Id : 68019114812 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If $(1+\cos x)\frac{dy}{dx}-(y-3)\sin x=0$ and $y(0)=0$, then the value of $y\left(\frac{\pi}{2}\right)$ is

Options :

68019157505. -3

68019157506. 3

68019157507. 9

68019157508. 6

Question Number : 12 Question Id : 68019114812 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि $(1+\cos x)\frac{dy}{dx}-(y-3)\sin x=0$ तथा $y(0)=0$ हैं, तो $y\left(\frac{\pi}{2}\right)$ का मान है:

Options :

68019157505. -3

68019157506. 3

68019157507. 9

68019157508. 6

Question Number : 13 Question Id : 68019114813 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If a straight line passing through point P (3, –5) is such that its intercepted portion between the co-ordinate axes is bisected at P, then the equation of the line is

Options :

68019157509. $5x + 3y + 30 = 0$

68019157510. $5x - 3y - 30 = 0$

68019157511. $5x - 3y + 30 = 0$

68019157512. $-5x - 3y + 30 = 0$

Question Number : 13 Question Id : 68019114813 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि बिंदु P $(3, -5)$ से होकर जाने वाली एक रेखा इस प्रकार है कि इसका निदेशांक अक्षों के बीच का भाग P पर समद्विभाजित होता है, तो इस रेखा का समीकरण है:

Options :

68019157509. $5x + 3y + 30 = 0$

68019157510. $5x - 3y - 30 = 0$

68019157511. $5x - 3y + 30 = 0$

68019157512. $-5x - 3y + 30 = 0$

Question Number : 14 Question Id : 68019114814 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The intercept on the line $x = y$ by the circle $x^2 + y^2 - 2y = 0$ is AB. The equation of the circle with AB as a diameter is

Options :

68019157513. $x^2+y^2+x+y=0$

68019157514. $x^2+y^2-x-y=0$

68019157515. $x^2+y^2-x+y=0$

68019157516. $x^2+y^2+x-y=0$

Question Number : 14 Question Id : 68019114814 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

रेखा $x=y$ पर, वृत्त $x^2+y^2-2y=0$ द्वारा बनाया गया अंत:खंड AB है। वृत्त जिसका एक व्यास AB है, का समीकरण है:

Options :

68019157513. $x^2+y^2+x+y=0$

68019157514. $x^2+y^2-x-y=0$

68019157515. $x^2+y^2-x+y=0$

68019157516. $x^2+y^2+x-y=0$

Question Number : 15 Question Id : 68019114815 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the foot of the perpendicular from the point (0, 0, 0) on the line $\frac{x+2}{5}=\frac{y+2}{2}=\frac{z+8}{3}$ is (a, b, c), then $a^2 + b^2 + c^2$ is

Options :

68019157517. 34

68019157518. 14

68019157519. 24

68019157520. 44

Question Number : 15 Question Id : 68019114815 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि रेखा $\frac{x+2}{5}=\frac{y+2}{2}=\frac{z+8}{3}$ पर बिंदु $(0, 0, 0)$ से डाले गए लंब का पाद (a, b, c) है,
तो $a^2 + b^2 + c^2$ बराबर है:

Options :

68019157517. 34

68019157518. 14

68019157519. 24

68019157520. 44

Question Number : 16 Question Id : 68019114816 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If the vectors $\overrightarrow{AB} = 3\hat{i}+8\hat{k}$ and $\overrightarrow{AC} = 5\hat{i}-2\hat{j}+6\hat{k}$ are the sides of a triangle ABC, then the length of the median through A is

Options :

68019157521. $\sqrt{33}$

68019157522. $\sqrt{66}$

68019157523. $\sqrt{56}$

68019157524. $\sqrt{72}$

Question Number : 16 Question Id : 68019114816 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि सदिश $\overrightarrow{AB} = 3\hat{i}+8\hat{k}$ तथा $\overrightarrow{AC} = 5\hat{i}-2\hat{j}+6\hat{k}$ एक त्रिभुज ABC की भुजांए हैं, तो A से माध्यिका (median) की लंबाई है:

Options :

68019157521. $\sqrt{33}$

68019157522. $\sqrt{66}$

68019157523. $\sqrt{56}$

68019157524. $\sqrt{72}$

Question Number : 17 Question Id : 68019114817 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

If $\vec{a}=6\hat{i}+2\hat{j}-\lambda_1\hat{k},\ \vec{b}=3\hat{i}+(3-\lambda_2)\hat{j}+2\hat{k}$ and $\vec{c}=2\hat{i}+(1+\lambda_3)\hat{j}-3\hat{k}$ are three vectors such that $\vec{a}=3\vec{c}$ and $\vec{b}$ is perpendicular to $\vec{c}$ then $(\lambda_1, \lambda_2, \lambda_3)$ is

Options :

68019157525. $\left(9, 21, -\frac{1}{3}\right)$

68019157526. $\left(9, 3, -\frac{1}{3}\right)$

68019157527. $\left(\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}\right)$

68019157528. $(3, 3, 1)$

Question Number : 17 Question Id : 68019114817 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

यदि तीन सदिश $\vec{a}=6\hat{i}+2\hat{j}-\lambda_1\hat{k},\ \vec{b}=3\hat{i}+(3-\lambda_2)\hat{j}+2\hat{k}$ तथा $\vec{c}=2\hat{i}+(1+\lambda_3)\hat{j}-3\hat{k}$ इस प्रकार हैं कि $\vec{a}=3\vec{c}$ है, तथा $\vec{b}$, सदिश $\vec{c}$ के लंबवत है, तो $(\lambda_1, \lambda_2, \lambda_3)$ है:

Options :

68019157525. $\left(9, 21, -\frac{1}{3}\right)$

68019157526. $\left(9, 3, -\frac{1}{3}\right)$

68019157527.

$\left(\frac{1}{3}, -\frac{1}{3}, \frac{1}{3}\right)$

68019157528. $(3, 3, 1)$

Question Number : 18 Question Id : 68019114818 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let x_1, x_2, x_3, x_4, x_5 be observations with mean m and standard deviation s. Then, which of the following statements are correct:

A. Mean of the observations $x_1 + k, x_2 + k, x_3 + k, x_4 + k, x_5 + k$ is $m + 5k$
B. Mean of the observations $kx_1, kx_2, kx_3, kx_4, kx_5$ is km.
C. The standard deviation of the observations $x_1 + k, x_2 + k, x_3 + k, x_4 + k, x_5 + k$ is s.
D. The standard deviation of the observations $kx_1, kx_2, kx_3, kx_4, kx_5$ is $k^5 s$.

Choose the correct answer from the options given below :

Options :

68019157529. A, B, C, D

68019157530. A, C only

68019157531. B, D only

68019157532. B, C only

Question Number : 18 Question Id : 68019114818 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

माना प्रेक्षणों x_1, x_2, x_3, x_4, x_5 का माध्य m तथा मानक विचलन s है । तो निम्नलिखित कथनों में से कौन से कथन सही हैं?

A. प्रेक्षणों $x_1 + k, x_2 + k, x_3 + k, x_4 + k, x_5 + k$ का माध्य $m + 5k$ है।
B. प्रेक्षणों $kx_1, kx_2, kx_3, kx_4, kx_5$ का माध्य km है।
C. प्रेक्षणों $x_1 + k, x_2 + k, x_3 + k, x_4 + k, x_5 + k$ का मानक विचलन s है।
D. प्रेक्षणों $kx_1, kx_2, kx_3, kx_4, kx_5$ का मानक विचलन k^5s है।

नीचे दिए गए विकल्पों से सही उत्तर चुनिए :

Options :

68019157529. A, B, C, D

68019157530. केवल A, C

68019157531. केवल B, D

68019157532. केवल B, C

Question Number : 19 Question Id : 68019114819 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Let the area of the region enclosed between the two circles $x^2 + y^2 = a^2$ and $(x - a)^2 + y^2 = a^2$ be $\frac{m}{3}\left(4\pi - 3\sqrt{3}\right)$ sq. units for some $a \geq 2$. If a is a root of $x^3 - 3x^2 - 6x + 8 = 0$, then

Options :

68019157533. $m^2 = a^4$

68019157534. $m^2 = a^3$

68019157535. $m^4 = a^2$

68019157536. $m^3 = a^2$

Question Number : 19 Question Id : 68019114819 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दो वृत्तों $x^2 + y^2 = a^2$ तथा $(x - a)^2 + y^2 = a^2$ से घिरे क्षेत्र का क्षेत्रफल किसी $a \geq 2$ के लिए $\frac{m}{3}\left(4\pi - 3\sqrt{3}\right)$ वर्ग इकाई है। यदि $x^3-3x^2-6x+8=0$ का एक मूल a है, तो

Options :

68019157533. $m^2 = a^4$

68019157534. $m^2 = a^3$

68019157535. $m^4 = a^2$

68019157536. $m^3 = a^2$

Question Number : 20 Question Id : 68019114820 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Suppose $\begin{vmatrix} f'(x) & f(x) \\ f''(x) & f'(x) \end{vmatrix} = 0$, where $f(x)$ is continuously differentiable function with $f'(x) \neq 0 \ \ \forall\ x \in \mathbb{R}$ and satisfies $f(0)=1$ and $f'(0)=4$. If $f(x) = e^{\lambda x} + \mu$, where $\lambda, \mu \in \mathbb{R}$ then the value of $\lambda^2+\mu^2$ is

Options :

68019157537. 2

68019157538. 4

68019157539. 8

68019157540. 16

Question Number : 20 Question Id : 68019114820 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मान लीजिये $\begin{vmatrix} f'(x) & f(x) \\ f''(x) & f'(x) \end{vmatrix} = 0$ है, जहाँ $f(x)$ संतत अवकलनीय फलन है और $f'(x) \neq 0 \ \forall \ x \in \mathbb{R}$ है तथा $f(0)=1$ और $f'(0)=4$ को संतुष्ट करता है।
यदि $f(x) = e^{\lambda x} + \mu$ है, जहाँ $\lambda, \mu \in \mathbb{R}$ हैं, तो $\lambda^2+\mu^2$ का मान है

Options :

68019157537. 2

68019157538. 4

68019157539. 8

68019157540. 16

Mathematics Section B

Section Id :	680191287
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10

Number of Questions to be attempted :	5
Section Marks :	20
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	680191377
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 21 Question Id : 68019114821 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

The equations $ax^2 + bx + a = 0, (a, b \in \mathbb{R})$ and $x^3 - 2x^2 + 2x - 1 = 0$ have two common roots. Then the value of $a + b$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 21 Question Id : 68019114821 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

समीकरणों $ax^2 + bx + a = 0, (a, b \in \mathbb{R})$ तथा $x^3 - 2x^2 + 2x - 1 = 0$ के दो उभयनिष्ठ मूल हैं। तो $a + b$ का मान है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 22 Question Id : 68019114822 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

Let A be a matrix satisfying $A^3 = 3A + 2I$ where $A \neq nI$, $n \in \mathbb{Z}$. If $A^2 + \alpha A + \beta I = O$, then maximum value of $|\alpha + \beta|$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 22 Question Id : 68019114822 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

माना एक आव्यूह A के लिए $A^3 = 3A + 2I$ है, जहाँ $A \neq nI$, $n \in \mathbb{Z}$ हैं।
यदि $A^2 + \alpha A + \beta I = O$, है, तो $|\alpha + \beta|$ का अधिकत्तम मान है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 23 Question Id : 68019114823 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

An equilateral triangle is inscribed in the ellipse $\frac{x^2}{3}+y^2=1$ such that one of the vertex of the triangle is (0, 1) and one of the altitude of the triangle is along the y-axis. If A is the area of the equilateral triangle. Then $625A^2$ is equal to _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 23 Question Id : 68019114823 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

एक समबाहु त्रिभुज दीर्घवृत्त $\frac{x^2}{3}+y^2=1$ में इस प्रकार अंतर्गत है कि त्रिभुज का एक शीर्ष (0, 1) है तथा त्रिभुज का एक शीर्षलम्ब y-अक्ष के अनुदिश है। यदि A समबाहु त्रिभुज का क्षेत्रफल है, तो $625A^2$ बराबर है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 24 Question Id : 68019114824 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

The volume of the greatest cylinder that can be inscribed in a cone of height $\frac{3}{\sqrt[3]{\pi}}$ and semi-vertical angle 45° is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 24 Question Id : 68019114824 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

ऊचाँई $\frac{3}{\sqrt[3]{\pi}}$ तथा अर्ध-शीर्ष कोण 45° के शंकु के अंतर्गत बेलन का अधिकतम आयतन है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 25 Question Id : 68019114825 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

If the function $f(x)$ is defined as $f(x) = \begin{vmatrix} \frac{1}{1+e^{\sin x}} & \sin x \\ \sqrt{1-x^2} & 2 \end{vmatrix}$. Then

the value of $\frac{1}{\pi}\int_{-\pi/2}^{\pi/2} f(x)\,dx$ is equal to_____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 25 Question Id : 68019114825 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

यदि फलन $f(x)$, $f(x) = \begin{vmatrix} \frac{1}{1+e^{\sin x}} & \sin x \\ \sqrt{1-x^2} & 2 \end{vmatrix}$ द्वारा परिभाषित है, तो

$\frac{1}{\pi}\int_{-\pi/2}^{\pi/2} f(x)\,dx$ का मान बराबर है _____

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 26 Question Id : 68019114826 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

A line touches the curve $y = y(x)$ at a point (x, y) having slope $\frac{1+y^2}{1+x^2}$,where $x > 0$. If $y(2) = 1$, $y(3) = \frac{\alpha}{\beta}$ and $gcd\{\alpha, \beta\} = 1$, then the value of $\alpha + \beta$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 26 Question Id : 68019114826 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

कोई रेखा वक्र $y = y(x)$ को बिंदु (x, y) पर स्पर्श करती है जिसकी प्रवणता $\frac{1+y^2}{1+x^2}$ है, जहाँ $x > 0$ है। यदि $y(2) = 1$, $y(3) = \frac{\alpha}{\beta}$ तथा $gcd\{\alpha, \beta\} = 1$ है, तो $\alpha + \beta$ का मान है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 27 Question Id : 68019114827 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

The equation of the base of an equilateral triangle is $x + y = 1$ and the opposite vertex has co-ordinates $(-3, 2)$. The area of the triangle (in square units) is represented by A, then the value of $\sqrt{3}A$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 27 Question Id : 68019114827 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

एक समबाहु त्रिभुज के आधार का समीकरण $x + y = 1$ है तथा सम्मुख शीर्ष के निर्देशांक $(-3, 2)$ है। यदि इस त्रिभुज का क्षेत्रफल (वर्ग इकाई में) A द्वारा दर्शाया गया है, तो $\sqrt{3}A$ का मान है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 28 Question Id : 68019114828 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

Let R be the point $(13, -8, 10)$ and $P(\alpha, \beta, \lambda)$ be the image of the point Q $(5, 2, 1)$ in the line $x-2=3-y=z+1$. Then the square of the area of the triangle PQR is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 28 Question Id : 68019114828 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

माना R बिन्दु $(13, -8, 10)$ है तथा रेखा $x-2=3-y=z+1$ में बिन्दु Q $(5, 2, 1)$ का प्रतिबिम्ब $P(\alpha, \beta, \lambda)$ है, तो त्रिभुज PQR के क्षेत्रफल का वर्ग है _____

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 29 Question Id : 68019114829 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

A hospital conducts a free eye check-up drive at 3 different locations A, B and C of a city. The number of people that came for test at A is thrice as much as that at B, and number of people that came at B is same as that at C. The results show that 4% population at A, 2% at B and 3% at C have poor eye-sight. If a person from the city goes for an army job and is found to have poor eye-sight, and the probability that he is not from location C is $\frac{p}{q}$, where $\frac{p}{q}$ is in simplest form, then value of $(p+q)$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 29 Question Id : 68019114829 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

एक चिकित्सालय एक शहर के 3 भिन्न स्थानों A, B, तथा C पर आखों की निःशुल्क जाँच का संचालन करता है। जाँच के लिए A पर आए लोगों की संख्या, B पर आए लोगों की संख्या का तीन गुना है तथा B पर आए लोगों की संख्या उतनी ही है जितनी C पर । परिणाम यह दर्शाते हैं कि A पर 4%, B पर 2% तथा C पर 3% जनसंख्या की नज़र कमजोर है। शहर से एक व्यक्ति सेना की नौकरी के लिए जाता है तथा उसकी नज़र कमजोर पायी जाती है, तथा उसके स्थान C से न होने की प्रायिकता $\frac{p}{q}$ है, जहाँ $\frac{p}{q}$ सरलतम रुप में है, तो $(p+q)$ का मान हैं _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 30 Question Id : 68019114830 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

The number of pairs (x, y) satisfying the equations $\sin x + \sin y = \sin (x + y)$ and $|x| + |y| = 1$ is _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Question Number : 30 Question Id : 68019114830 Question Type : SA Calculator : None

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

Correct Marks : 4 Wrong Marks : 1

समीकरणों $\sin x + \sin y = \sin (x + y)$ तथा $|x| + |y| = 1$ को संतुष्ट करने वाले युग्मों (x, y) की संख्या है _____.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

Aptitude Test

Section Id :	680191288
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	680191378
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 31 Question Id : 68019114831 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In a certain word code, EXHAUST is written as CZFCSUR. How is NETWORK written in that code ?



Options :

68019157551. LCVYQTI

68019157552. LGVYQTM

68019157553. LGRYMTI

68019157554. LCRYQTM

Question Number : 31 Question Id : 68019114831 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कुछ एक शब्द कोड में EXHAUST को CZFCSUR लिखा जाता है। NETWORK को उस कोड में कैसे लिखा जाएगा?

Options :

68019157551. LCVYQTI

68019157552. LGVYQTM

68019157553. LGRYMTI

68019157554. LCRYQTM

Question Number : 32 Question Id : 68019114832 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

In a code language, if "BRICK" is written as "CQJBL", then "CEMENT" is _____

Options :

68019157555. DDOFOS

68019157556. DDODOS

68019157557. DDNDOS

68019157558. DDNFOS

Question Number : 32 Question Id : 68019114832 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक कूट भाषा में यदि "BRICK" को "CQJBL" लिखा जाता है, तो "CEMENT" को _____ लिखा जाएगा।

Options :

68019157555. DDOFOS

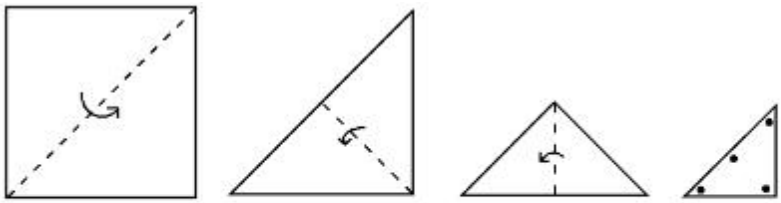
68019157556. DDODOS

68019157557. DDNDOS

68019157558. DDNFOS

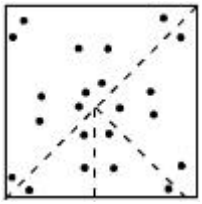
Question Number : 33 Question Id : 68019114833 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

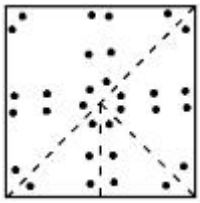
Correct Marks : 4 Wrong Marks : 1



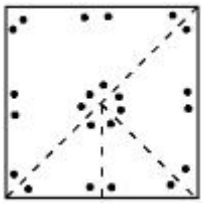
When the paper is folded in a given pattern and is cut at the end. Identify which pattern is formed when the paper is unfold?

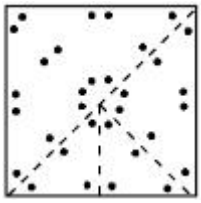
Options :

68019157559. 

68019157560. 

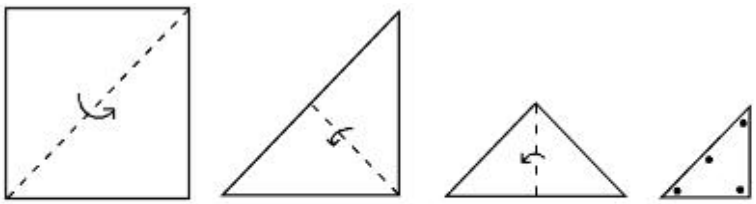
68019157561.



68019157562. 

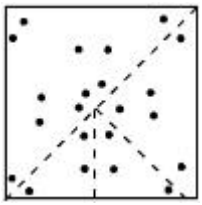
Question Number : 33 Question Id : 68019114833 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

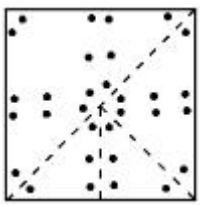
Correct Marks : 4 Wrong Marks : 1



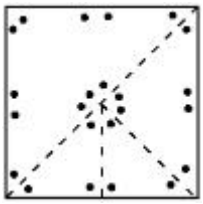
जब एक कागज को दिए गए पैटर्न के अनुरुप मोड़ा जाता है, अन्त में काटा जाता है पहचान करें कि जब कागज सीधा (अनफोल्ड) किया जाए तब कौन सा पैटर्न बनेगा?

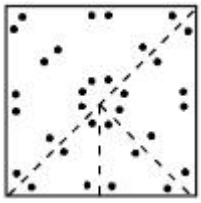
Options :

68019157559. 

68019157560. 

68019157561.



68019157562. 

Question Number : 34 Question Id : 68019114834 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I (Components/Material)		LIST II (Functions)	
A.	Cement	I.	Load Bearing
B.	Window	II.	Tensile strength
C.	Foundation	III.	Setting time
D.	Steel	IV.	Glazing

Choose the correct answer from the options given below:

Options :

68019157563. A-I, B-IV, C-III, D-II

68019157564. A-I, B-II, C-III, D-IV

68019157565. A-III, B-IV, C-I, D-II

68019157566. A-IV, B-III, C-II, D-I

Question Number : 34 Question Id : 68019114834 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I का सूची II से मिलान करें:

सूची I (घटक/सामग्री)		सूची II (कार्य)	
A.	सीमेंट	I.	लोड बियरिंग
B.	खिड़की	II.	तनन मजबूती (टेंसिल स्ट्रेन्थ)
C.	नींव	III.	सेटिंग टाइम
D.	स्टील	IV.	चमक (ग्लेजिंग)

नीचे दिए गए विकल्पों में से सही उत्तर का चयन करें:

Options :

68019157563. A-I, B-IV, C-III, D-II

68019157564. A-I, B-II, C-III, D-IV

68019157565. A-III, B-IV, C-I, D-II

68019157566. A-IV, B-III, C-II, D-I

Question Number : 35 Question Id : 68019114835 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I(struchture)		LIST II(places)	
A.	Humayun's Tomb	I.	Gujarat
B.	Bibi Ka Maqbara	II.	New Delhi
C.	Hussain Doshi Gufa	III.	Maharashtra
D.	Group of monuments, Mahabalipuram	IV.	Tamilnadu

Choose the correct answer from the options given below:

Options :

68019157567. A-II, B-IV, C-I, D-III

68019157568. A-I, B-III, C-II, D-IV

68019157569. A-II, B-III, C-I, D-IV

68019157570. A-II, B-I, C-IV, D-III

Question Number : 35 Question Id : 68019114835 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I का सूची II से मिलान करें:

सूची I (ढांचा)		सूची II (स्थान)	
A.	हुमायुं का मकबरा	I.	गुजरात
B.	बीबी का मकबरा	II.	नई दिल्ली
C.	हुसैन दोशी गुफा	III.	महाराष्ट्र
D.	स्मारकों का समूह, महाबलीपूरम	IV.	तमिलनाडु

नीचे दिए गए विकल्पों में से सही उत्तर का चयन करें:

Options :

68019157567. A-II, B-IV, C-I, D-III

68019157568. A-I, B-III, C-II, D-IV

68019157569. A-II, B-III, C-I, D-IV

68019157570. A-II, B-I, C-IV, D-III

Question Number : 36 Question Id : 68019114836 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I		LIST II	
A.	Stairs	I.	Key stone
B.	Door	II.	Toothing
C.	Arch	III.	Jamb
D.	Brick work	IV.	Tread

Choose the correct answer from the options given below:

Options :

68019157571. A-IV, B-III, C-I, D-II

68019157572. A-II, B-I, C-III, D-IV

68019157573. A-I, B-III, C-IV, D-II

68019157574. A-III, B-IV, C-II, D-I

Question Number : 36 Question Id : 68019114836 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I का सूची II से मिलान करें:

सूची I		सूची II	
A.	सीढ़ी	I.	की स्टोन
B.	दरवाजा	II.	टूथिंग
C.	मेहराब	III.	जैम्ब
D.	ईंट कार्य	IV.	ट्रैड

नीचे दिए गए विकल्पों में से सही उत्तर का चयन करें:

Options :

68019157571. A-IV, B-III, C-I, D-II

68019157572. A-II, B-I, C-III, D-IV

68019157573. A-I, B-III, C-IV, D-II

68019157574. A-III, B-IV, C-II, D-I

Question Number : 37 Question Id : 68019114837 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Give below are two statements :

Statement I : A partition wall is defined as an internal wall whose function is to divide the space within the building.

Statement II : Partition wall could be load bearing or non-load bearing.

In the light of the above statements, choose the ***most appropriate*** answer from the options given below:

Options :

68019157575. Both Statement I and Statement II are correct

68019157576. Both Statement I and Statement II are incorrect

68019157577. Statement I is correct but Statement II is incorrect

68019157578. Statement I is incorrect but Statement II is correct

Question Number : 37 Question Id : 68019114837 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैं:

कथन I : पार्टिशन दिवार को आंतरिक दिवार के रूप में पारिभाषित किया जाएगा। जिसकी क्रिया भवन के अन्दर के स्थान को विभाजित करना है।

कथन II : पार्टिशन दिवार भार सहनीय (लोड बियरिंग) अथवा नॉन लोड बियरिंग हो सकती है।

उपरोक्त कथनों के आलोक में नीचे दिए गए विकल्पों में से सर्वथा उपयुक्त उत्तर का चयन करें:

Options :

68019157575. दोनों कथन I और कथन II सही है

68019157576. दोनों कथन I और कथन II गलत हैं

68019157577. कथन I सही है किन्तु कथन II गलत है

68019157578. कथन I गलत है किन्तु कथन II सही है

Question Number : 38 Question Id : 68019114838 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below are two statements: one is labelled as **Assertion A** and the other is labelled as **Reason R** :
Assertion A : Social integration at work place is necessary.
Reason R : There are many backward classes in society.
In the light of the above statements, choose the ***correct*** answer from the options given below :

Options :

68019157579. Both **A** and **R** are true and **R** is the correct explanation of **A**

68019157580. Both **A** and **R** are true but **R** is NOT the correct explanation of **A**

68019157581. **A** is true but **R** is false

68019157582. **A** is false but **R** is true

Question Number : 38 Question Id : 68019114838 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दो कथन दिए गए हैः एक को अभिकथन **A** अंकित किया गया है और दूसरे को कारण **R** के रूप में अंकित किया गया है।
अभिकथन A : कार्य स्थल पर सामाजिक एकीकरण आवश्यक हैं।
कारण R : समाज में कई पिछड़ी जातियां हैं।
उपरोक्त कथनों के आलोक में नीचे दिए गए विकल्पों में से सर्वथा उपयुक्त उत्तर का चयन करें:

Options :

68019157579. दोनों **A** और **R** सही है और **A** की सही व्याख्या **R** है।

68019157580. दोनों **A** और **R** सही है किन्तु **R, A** की सही व्याख्या नहीं है।

68019157581. **A** सत्य किन्तु **R** असत्य है।

68019157582. **A** असत्य किन्तु **R** सत्य है।

Question Number : 39 Question Id : 68019114839 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Primary colours are_____.

Options :

68019157583. Red, Blue, Yellow

68019157584. Red, Green, Blue

68019157585. Red, Violet, Yellow

68019157586. Red, Green, Yellow

Question Number : 39 Question Id : 68019114839 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मूल रंग हैः

Options :

68019157583. लाल, नीला, पीला

68019157584. लाल, हरा, नीला

68019157585. लाल, बैंगनी, पीला

68019157586. लाल, हरा, पीला

Question Number : 40 Question Id : 68019114840 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The stairs kept in motion by a revolving drum is known as a _____.

Options :

68019157587. Escalator

68019157588. Lift

68019157589. Elevator

68019157590. Revolving stairs

Question Number : 40 Question Id : 68019114840 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

घूमने वाले ड्रम द्वारा चालित सिढ़ियों को _____ के नाम से जाना जाता है।

Options :

68019157587. एस्केलेटर

68019157588. लिफ्ट

68019157589. एलेवेटर

68019157590. रिवाल्विंग स्टैयर्स (घूर्णन सीढ़ी)

Question Number : 41 Question Id : 68019114841 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the following structure does not have a dome?

Options :

68019157591. Gol Gumbaz

68019157592. Avicii Arena

68019157593. St. Paul's Cathedral

68019157594. The Shard

Question Number : 41 Question Id : 68019114841 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दिए गए किस ढांचे में गुम्बद (डोम) नही है?

Options :

68019157591. गोल गुम्बज़

68019157592. अविसी एरेना

68019157593. सेंट पाल कैथेड्रल

68019157594. दी शार्ड

Question Number : 42 Question Id : 68019114842 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Given below is the famous temple in India. Identify the style of temple architecture adopted in the temple.



Options :

68019157595. Nagara

68019157596. Dravidian

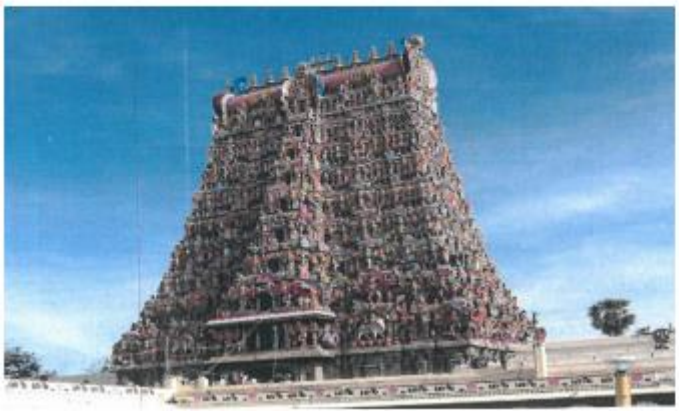
68019157597. Vesara

68019157598. Orissan

Question Number : 42 Question Id : 68019114842 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे भारत का एक प्रसिद्ध मंदिर दर्शाया गया है। मंदिर में अपनाई गई वास्तु शिल्प की शैली की पहचान करें:



Options :

68019157595. नागर

68019157596. द्रविड़ियन

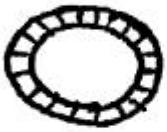
68019157597. वेसरा

68019157598. ओरिस्सान

Question Number : 43 Question Id : 68019114843 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

LIST I(Plan)		LIST II(Building Name)	
A.		I.	Taj Mahal
B.		II.	Qutub Minar, New Delhi
C.		III.	Matri Mandir, Auroville
D.		IV.	Sanchi Stupa

Choose the correct answer from the options given below:

Options :

68019157599. A-IV, B-II, C-III, D-I

68019157600. A-II, B-III, C-IV, D-I

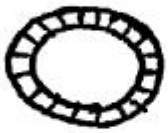
68019157601. A-III, B-II, C-IV, D-I

68019157602. A-IV, B-III, C-II, D-I

Question Number : 43 Question Id : 68019114843 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सूची I का सूची II से मिलान करें:

सूची I (योजना)		सूची II (भवन का नाम)	
A.		I.	ताजमहल
B.		II.	कुतुब मिनार, नई दिल्ली
C.		III.	मातृ मंदिर औरोविले
D.		IV.	सांची स्तूप

दिए गए विकल्पों में से सही उत्तर का चयन करें:

Options :

68019157599. A-IV, B-II, C-III, D-I

68019157600. A-II, B-III, C-IV, D-I

68019157601. A-III, B-II, C-IV, D-I

68019157602. A-IV, B-III, C-II, D-I

Question Number : 44 Question Id : 68019114844 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The botanical name of "MANGO" tree is

Options :

68019157603. Azadirachita Indica

68019157604. Mangifera Indica

68019157605. Delonux Indica

68019157606. Delonux Regia

Question Number : 44 Question Id : 68019114844 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

आम के पेड़ का वानस्पतिक नाम हैः

Options :

68019157603. अज़ादिरचित्रा इंडिका

68019157604. मंगिफेरा इंडिका

68019157605. डेलोनक्स इंडिका

68019157606. जेलोनक्श रेजिया

Question Number : 45 Question Id : 68019114845 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Scientific study of human body measurements :

Options :

68019157607. Depth Perception

68019157608. Anthrology

68019157609. Axenometry

68019157610. Anthropometry

Question Number : 45 Question Id : 68019114845 Question Type : MCQ Option Shuffling : Y

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

मानव शरीर मापन का वैज्ञानिक अध्ययन -

Options :

68019157607. गूढ़ अवगम (प्रत्यक्ष ज्ञान)

68019157608. मानव जैविक विज्ञान

68019157609. एक्सेनोमिटरी

68019157610. मानव भिति (एन्थ्रोपपोमिटरी)

Question Number : 46 Question Id : 68019114846 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

FAR stands for

Options :

68019157611. Facade Area Ratio

68019157612. Floor Area Ratio

68019157613. Fire Accessible Ramp

68019157614. Fire Arch Ratio

Question Number : 46 Question Id : 68019114846 Question Type : MCQ Option Shuffling : Y



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

Correct Marks : 4 Wrong Marks : 1

FAR का अर्थ है:

Options :

68019157611. फेसेड एरिया रेश्यो

68019157612. फ्लोर एरिया रेश्यो

68019157613. फायर एकस्सेबिल रैम्प

68019157614. फायर आर्च रेश्यो

Question Number : 47 Question Id : 68019114847 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

On an engineer scale, 1 cm = 10 m. Identify the representative fraction (R.F.)

Options :

68019157615. 1/100

68019157616. 1/10

68019157617. 1/1000

68019157618. 1/10000

Question Number : 47 Question Id : 68019114847 Question Type : MCQ Option Shuffling : Y

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक अभियांत्रिक तुला पर 1 cm = 10 m है, तो प्रतिनिधित्व अंश (R.F.) ज्ञात करें-

Options :

68019157615. 1/100

68019157616. 1/10

68019157617. 1/1000

68019157618. 1/10000

Question Number : 48 Question Id : 68019114848 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the iconic Landmark :



Options :

68019157619. Taipei 101

68019157620. One World Trade Center

68019157621. Sydney Opera House

68019157622. Shanghai World Financial Center

Question Number : 48 Question Id : 68019114848 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सुप्रसिद्ध भूचिन्ह (लैंडमार्क) की पहचान करें:



Options :

68019157619. ताइपे 101

68019157620. एक विश्व व्यापार केन्द्र

68019157621. सिडनी ओपेरा हाउस

68019157622. संघाई वर्ल्ड फाइनेन्शियल सेन्टर

Question Number : 49 Question Id : 68019114849 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the name of the Landmark :



Options :

68019157623. Crystal Palace, London

68019157624. The Louvre, Paris

68019157625. German Pavilion for World exibition, Barcelona

68019157626. Vitra Design Museum, Basel

Question Number : 49 Question Id : 68019114849 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

भू-चिन्ह (लैंडमार्क) का नाम बताएं



Options :

68019157623. क्रिस्टल पैलेस, लंदन

68019157624. दी लौवरे, पेरिस

68019157625. जर्मन पवेलियन फार वर्ल्ड एकजिबेशन, बारसीलोना

68019157626. विट्रा डिजाइन म्यूजियम, बसिल

Question Number : 50 Question Id : 68019114850 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the famous Monument in the given picture.



Options :

68019157627. Chand Baoli

68019157628. Stepped Pyramid

68019157629. Golden Lily Pond

68019157630. Airavates-vara Temple

Question Number : 50 Question Id : 68019114850 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिए गए चित्र में सुप्रसिद्ध स्मारक की पहचान करें:



Options :

68019157627. चांद बाओली

68019157628. स्टैप्ड पिरामिड (सीढ़ीनुमा पिरामिड)

68019157629. गोल्डन लीली पोंड

68019157630. एयरावती-वारा मंदिर

Question Number : 51 Question Id : 68019114851 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

A man is facing towards East and turns through 45° anti clockwise, again 180° anticlockwise and than turns through 270° clockwise. In which direction is he facing now?

Options :

68019157631. South-East

68019157632. South-West

68019157633. South

68019157634. North-East

Question Number : 51 Question Id : 68019114851 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक व्यक्ति पूर्व अभिमुख है और घड़ी की विपरित दिशा में 45° पर मुड़ जाता है। फिर से घडी की विपरित दिशा में 180° पर तथा तत्पश्यात 270° घड़ी की दिशा में घूम जाता है। अब वह किस दिशा में अभिमुख है।

Options :

68019157631. दक्षिण-पूर्व

68019157632. दक्षिण-पश्चिम

68019157633. दक्षिण

68019157634. उत्तर-पूर्व

Question Number : 52 Question Id : 68019114852 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

The 'lightness or darkness' of a colour is defined as :

Options :

68019157635. Hue

68019157636. Brightless

68019157637. Dullness

68019157638. Value

Question Number : 52 Question Id : 68019114852 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

किसी रंग का गहरापन अथवा हलकापन पारिभाषित होता है-

Options :

68019157635. ह्यु (Hue)

68019157636. चमक हीन (Brightless)

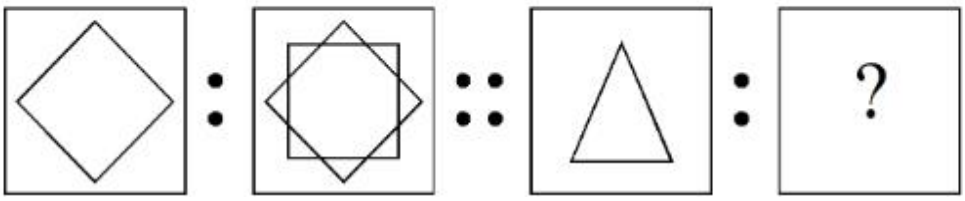
68019157637. फीकापन (Dullness)

68019157638. वैल्यु

Question Number : 53 Question Id : 68019114853 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Select a figure amongst the answer figures which will continue the same series or pattern as established by the problem figures.

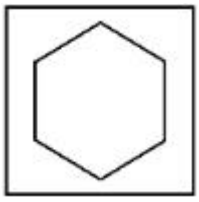


Options :

68019157639. 

68019157640. 

68019157641. 

68019157642. 

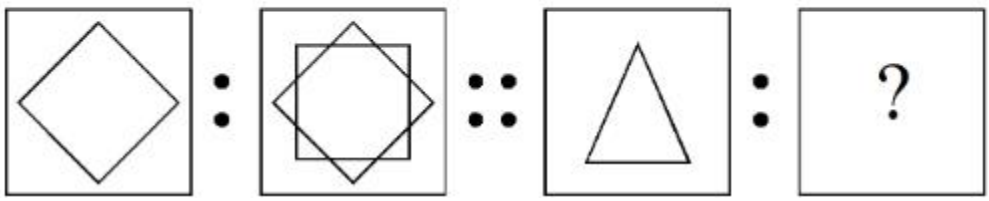
Question Number : 53 Question Id : 68019114853 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

उत्तर आकृतियों में से एक आकृति का चयन करें जो कि समस्या आकृति द्वारा प्रस्थापित पैटर्न अथवा उसकी श्रृंखला को सतत रखेगीः



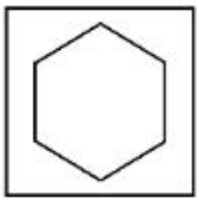
Options :

68019157639. 

68019157640. 

68019157641.

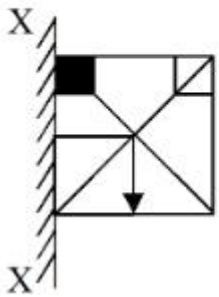


68019157642. 

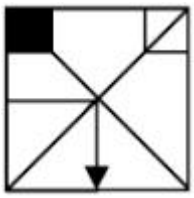
Question Number : 54 Question Id : 68019114854 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

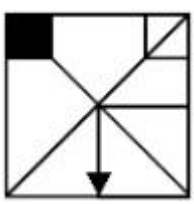
Correct Marks : 4 Wrong Marks : 1

Identify the true mirror image of the figure amongst the answer figures with respect to-X-X

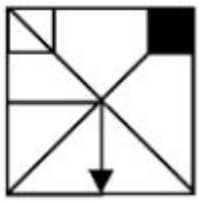


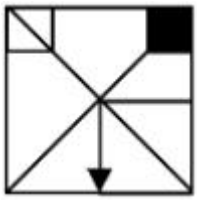
Options :

68019157643. 

68019157644. 

68019157645.

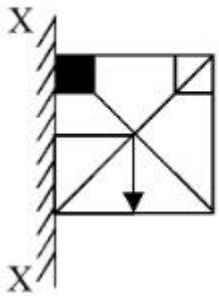


68019157646. 

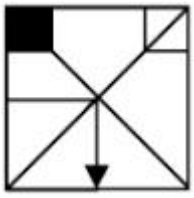
Question Number : 54 Question Id : 68019114854 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

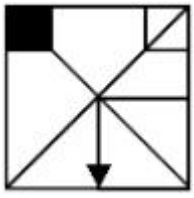
Correct Marks : 4 Wrong Marks : 1

X-X के संबंध में उत्तर आकृति में से सही दर्पण बिम्ब की पहचान करें:

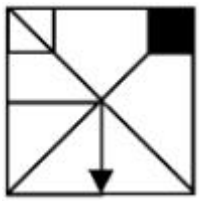


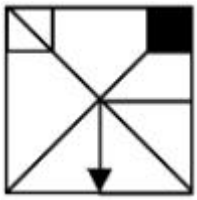
Options :

68019157643. 

68019157644. 

68019157645.



68019157646. 

Question Number : 55 Question Id : 68019114855 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

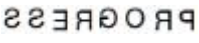
Identify the mirror image of given word :

PROGRESS

Options :

68019157647. PROGRESS

68019157648. 

68019157649. 

68019157650. 

Question Number : 55 Question Id : 68019114855 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिए गए शब्द के दर्पण बिम्ब की पहचान करें:

PROGRESS

Options :

68019157647. PROGRESS

68019157648. 

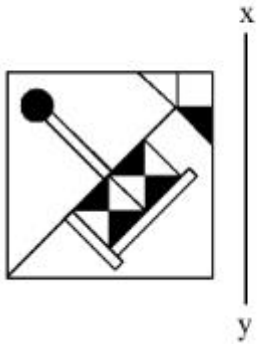
68019157649. 

68019157650. 

Question Number : 56 Question Id : 68019114856 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the correct mirror image of the given figure along x-y axis :



Options :

68019157651. 

68019157652. 

68019157653. 

68019157654. 

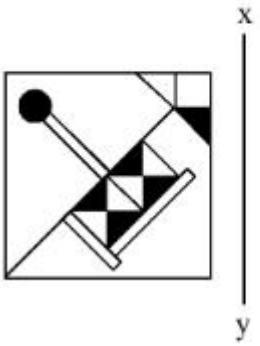
Question Number : 56 Question Id : 68019114856 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

x-y axis के साथ आकृति के सही दर्पण बिम्ब की पहचान करें:



Options :

68019157651. 

68019157652.



68019157653. 

68019157654. 

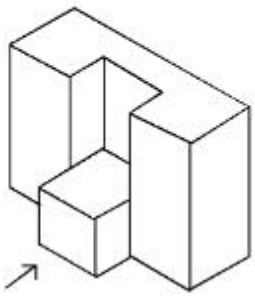
Question Number : 57 Question Id : 68019114857 Question Type : MCQ Option Shuffling : Yes

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

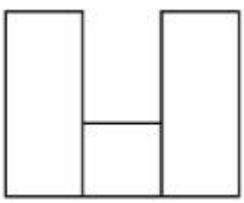
Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

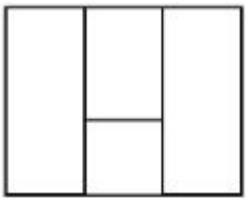
The question figure shows the 3D view of an object. Identify the correct view of the object looking in the direction of arrow.

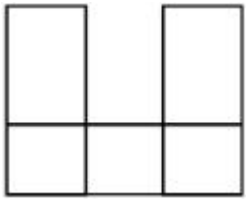


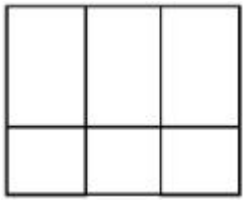
Options :

68019157655. 

68019157656.



68019157657. 

68019157658. 

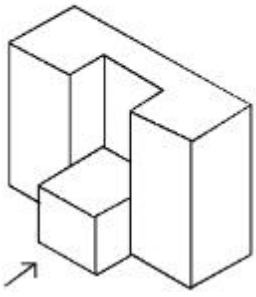
Question Number : 57 Question Id : 68019114857 Question Type : MCQ Option Shuffling : Yes

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

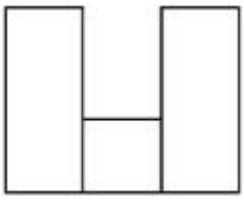
Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

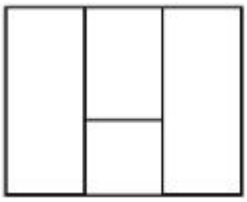
प्रश्न आकृति किसी वस्तु का 3D दृश्य दर्शाती है। तीर की दिशा में दृष्टिगत करते हुए सही दृश्य की पहचान करें:

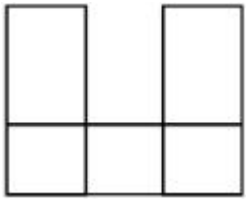


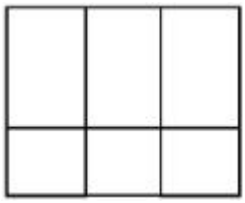
Options :

68019157655. 

68019157656.



68019157657. 

68019157658. 

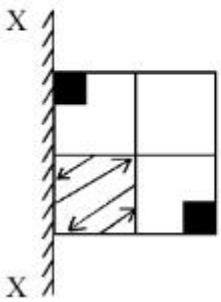
Question Number : 58 Question Id : 68019114858 Question Type : MCQ Option Shuffling : Yes

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

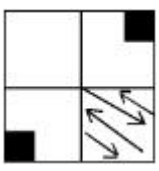
Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the true mirror image of the figure amongst the answer figures with respect to X-X :

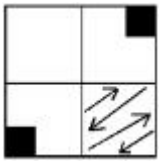


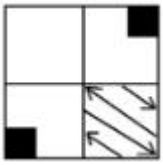
Options :

68019157659. 

68019157660.



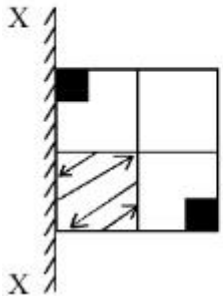
68019157661. 

68019157662. 

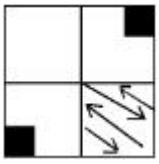
Question Number : 58 Question Id : 68019114858 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

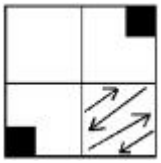
X-X के सम्बंध में उत्तर आकृति में से सही दर्पण बिम्ब की पहचान करें:

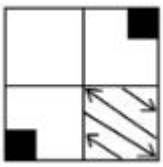


Options :

68019157659. 

68019157660. 

68019157661. 

68019157662. 

Question Number : 59 Question Id : 68019114859 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

'Kuchipudi' is a unique dance from which state ?

Options :

68019157663. Madhya Pradesh

68019157664. Tamil Nadu

68019157665. Kerala

68019157666. Andhra Pradesh

Question Number : 59 Question Id : 68019114859 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

कुचिपुड़ि किस राज्य का एक अद्वितीय नृत्य है?

Options :

68019157663. मध्य प्रदेश

68019157664. तमिल नाडु

68019157665. केरल

68019157666. आंध्र प्रदेश

Question Number : 60 Question Id : 68019114860 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which of the below given material is not a plaster type ?

Options :

68019157667. Gypsum

68019157668. Lime

68019157669. Cement

68019157670. MDF

Question Number : 60 Question Id : 68019114860 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दिए गए विकल्पों में से कौन सी सामग्री प्लास्टर का प्रकार नहीं है?

Options :

68019157667. जस्ता

68019157668. चूना

68019157669. सिमेंट

68019157670. एम डी एफ

Question Number : 61 Question Id : 68019114861 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who initiated the construction of Qutub-Minar, Delhi?

Options :

68019157671. Muhammad Quli Qutub Shah

68019157672. Muhammad Azam Shah

68019157673. Qutub-Ud-din-Aibak

68019157674. Iltutmish

Question Number : 61 Question Id : 68019114861 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दिल्ली स्थित कुबुत मीनार का निर्माण किसने आरम्भ किया था?

Options :

68019157671. मुहम्मद कुली कुतुब शाह

68019157672. मुहम्मद आज़म शाह

68019157673. कुतुब-उद्-दिन-ऐबक

68019157674. इल्तुत्मिश

Question Number : 62 Question Id : 68019114862 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

When is the world Environment Day celebrated?

Options :

68019157675. 5 June

68019157676. 10 July

68019157677. 22 March

68019157678. 15 August

Question Number : 62 Question Id : 68019114862 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

विश्व पर्यावरण दिवस कब मनाया जाता हैं?

Options :

68019157675. 5 जून

68019157676. 10 जुलाई

68019157677. 22 मार्च

68019157678. 15 अगस्त

Question Number : 63 Question Id : 68019114863 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Visual weight is associated with :

Options :

68019157679. Emphasis

68019157680. Texture

68019157681. Balance

68019157682. Pattern

Question Number : 63 Question Id : 68019114863 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

दृश्य वजन _____ से संबंधित है।

Options :

68019157679. बल (Emphasis)

68019157680. संरचना (Texture)

68019157681. संतुलन (Balance)

68019157682. नमूना (Pattern)

Question Number : 64 Question Id : 68019114864 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Lines those branch off of a central point are referred to as :

Options :

68019157683. Rhythm

68019157684. Repetition

68019157685. Radiation

68019157686. Proportion

Question Number : 64 Question Id : 68019114864 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

एक केन्द्रीय बिन्दू से फैलनेवाली शाखा रेखाओं को संदर्भित किया जाता है:

Options :

68019157683. सामंजस्य

68019157684. दोहराना

68019157685. विकिरण

68019157686. समानपात

Question Number : 65 Question Id : 68019114865 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

V7 concept of Chandigarh city is associated with which architect?

Options :

68019157687. Patric Geddes

68019157688. Le Corbusier

68019157689. Frank O Gehri

68019157690. Zaha Hadid

Question Number : 65 Question Id : 68019114865 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चंडिगढ़ नगर की V7 संकल्पना किस वास्तुविद् से संबंधित हैं।

Options :

68019157687. पेट्रिक गेड्डेस

68019157688.

ले कॉर्बुशिर

68019157689. फ्रैंक ओ गेहरी

68019157690. ज़ाहा हदिद

Question Number : 66 Question Id : 68019114866 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who is known as "Father of contemporary architecture" ?

Options :

68019157691. Le Corbusier

68019157692. Louis Sullivan

68019157693. Frank Gehry

68019157694. Norman Foster

Question Number : 66 Question Id : 68019114866 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

किसे "समकालीन वास्तुकला का पिता" ("Father of contemporary architecture") के रूप में जाना जाता है?

Options :

68019157691. ले कॉर्बुसियर

68019157692. लुईस सुल्लिवन

68019157693. फ्रैंक गेहरी

68019157694. नॉर्मन फोस्टर

Question Number : 67 Question Id : 68019114867 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who designed 'India Gate'?

Options :

68019157695. Edwin Luytens

68019157696. Raj-Rewal

68019157697. George Writtet

68019157698. Norman Foster

Question Number : 67 Question Id : 68019114867 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

'इंडिया गेट' किसने डिजाइन किया था?

Options :

68019157695. एडविन लुटियंस

68019157696. राज रेवाल

68019157697. जॉर्ज रिट्वेट

68019157698. नॉर्मन फोस्टर

Question Number : 68 Question Id : 68019114868 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Who among the following architects has not won the Pritzker prize till 2019?

Options :

68019157699. B.V. Doshi

68019157700. I.M. Pie

68019157701. Arata Isozki

68019157702. Moshe Safdie

Question Number : 68 Question Id : 68019114868 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

निम्नलिखित में से किन वास्तुकलाविदों ने सन 2019 तक प्रिटज़र पुरस्कार नही जीता था:

Options :

68019157699. बी व्ही दोशी

68019157700. आई. एम. पै.

68019157701. अरता इसोज़कि

68019157702. मोशे साफदि

Question Number : 69 Question Id : 68019114869 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Terra cotta is a type of earthen work which is processed by :

Options :

68019157703. Burning at high temperature

68019157704. Mixing with lime

68019157705. Compacting with pressure

68019157706. Drying in the Sun

Question Number : 69 Question Id : 68019114869 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

टेराकोट्टा एक प्रकार का मृदा कार्य है जो कि _____ द्वारा प्रसंस्कृत होता है।

Options :

68019157703. उच्च तापमान पर प्रज्जवलन

68019157704. चूना के साथ मिश्रित करने पर

68019157705. दाब संघनन (Compacting with pressure)

68019157706. धूप में सुखाना

Question Number : 70 Question Id : 68019114870 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Which building material is primarily used as a building material for the Great wall of China?

Options :

68019157707. Timber

68019157708. Steel

68019157709. Brick

68019157710. Concrete

Question Number : 70 Question Id : 68019114870 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

चीन की ग्रेट वाल निर्माण में कौन सी आधारभूत भवन सामग्री प्रयोग की गई थी?

Options :

68019157707. टिम्बर

68019157708. स्टील

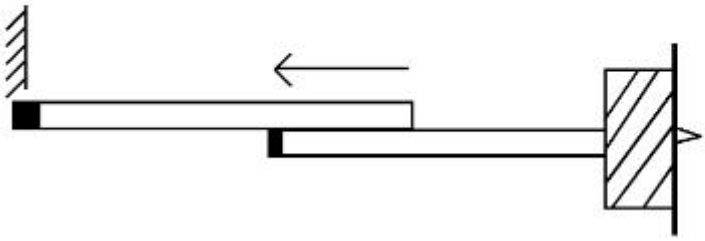
68019157709. ईंट

68019157710. कंक्रिट

Question Number : 71 Question Id : 68019114871 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Identify the architectural symbol represented in the given figure.



Options :

68019157711. Window

68019157712. Sliding door

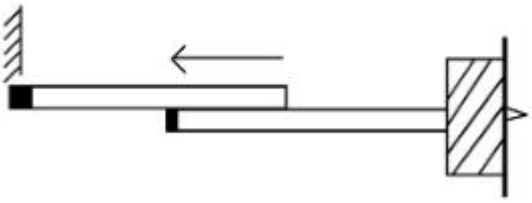
68019157713. Revolving door

68019157714. Rolling shutter

Question Number : 71 Question Id : 68019114871 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

नीचे दी गई आकृति में वास्तुशिल्प के प्रतीक की पहचान करें।



Options :

68019157711. खिड़की (विंडो)

68019157712. स्लाईडिंग डोर

68019157713. रिवोल्विंग डोर

68019157714. रॉलिंग शटर

Question Number : 72 Question Id : 68019114872 Question Type : MCQ Option Shuffling : Y

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Percentage of lime content in ordinary Portland cement is

Options :

68019157715. 30% – 40%

68019157716. 40% – 50%

68019157717. 60% – 70%

68019157718. 70% – 80%

Question Number : 72 Question Id : 68019114872 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

साधारण पोर्टलैंड सीमेंट में चूना की मात्रा का प्रतिशत है-

Options :

68019157715. 30% – 40%

68019157716. 40% – 50%

68019157717. 60% – 70%

68019157718. 70% – 80%

Question Number : 73 Question Id : 68019114873 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Sill Level is associated with

Options :

68019157719. Roof

68019157720. Column

68019157721. Window

68019157722. Staircase

Question Number : 73 Question Id : 68019114873 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सिल का स्तर _____ से सम्बंधित हैं।

Options :

68019157719. छत

68019157720. कॉलम

68019157721. खिड़की

68019157722. सीढी (स्टेयरकेस)

Question Number : 74 Question Id : 68019114874 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

What is the terminology for the vertical portion between each tread of the stairs?

Options :

68019157723. Winder

68019157724. Riser

68019157725. Nosing

68019157726. Going

Question Number : 74 Question Id : 68019114874 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

सीढ़ियों के प्रत्येक पायदान (tread) के बीच उर्ध्वाधर भाग की शब्दावली क्या है?

Options :

68019157723. वाइन्डर

68019157724. राइजर

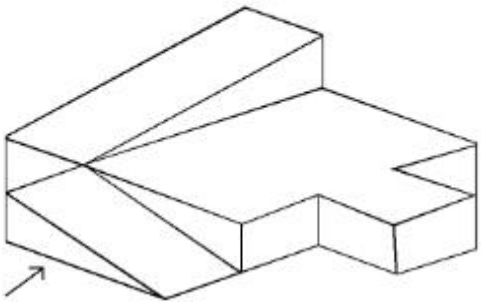
68019157725. नोसिंग

68019157726. गोइंग

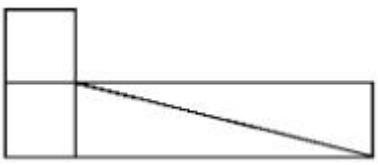
Question Number : 75 Question Id : 68019114875 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

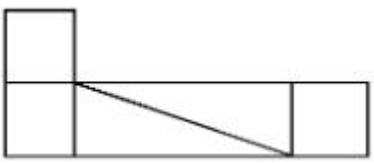
Correct Marks : 4 Wrong Marks : 1

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

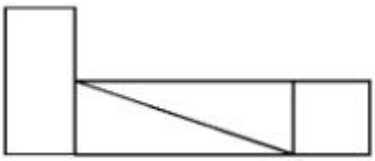


Options :

68019157727. 

68019157728. 

68019157729. 

68019157730. 

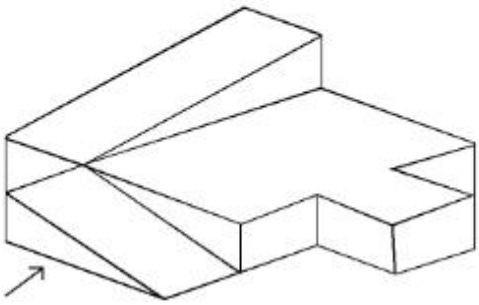
Question Number : 75 Question Id : 68019114875 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति किसी वस्तु का 3D दृश्य दर्शाती है। तीर की दिशा में दृष्टिगत करते हुए सही दृश्य की पहचान करें।

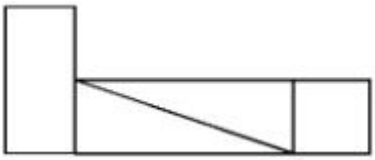


Options :

68019157727. 

68019157728. 

68019157729. 

68019157730. 

Question Number : 76 Question Id : 68019114876 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

Complete the number sequence :

18, 27, 38, 51, ..., 83

Options :

68019157731. 62

68019157732. 66

68019157733. 64

68019157734. 72

Question Number : 76 Question Id : 68019114876 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

संख्या का अनुक्रम पूर्ण करें:

18, 27, 38, 51, ..., 83

Options :

68019157731. 62

68019157732. 66

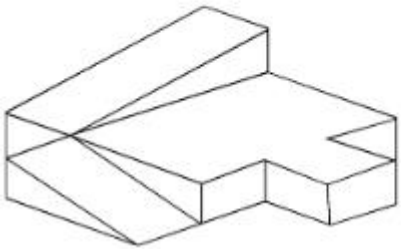
68019157733. 64

68019157734. 72

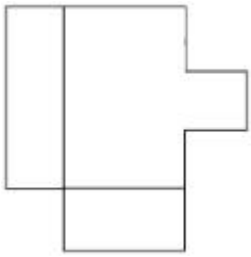
Question Number : 77 Question Id : 68019114877 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

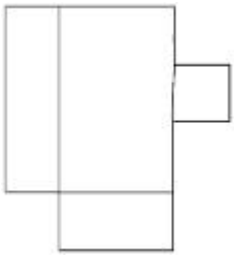
Correct Marks : 4 Wrong Marks : 1

In the question figure a-3-D object is given, Identify the correct top view of the object amongst the answer figures.

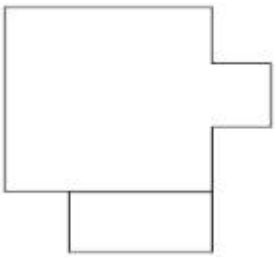


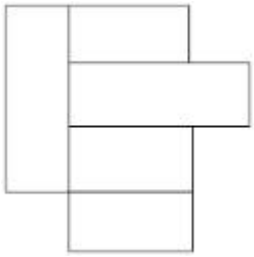
Options :

68019157735. 

68019157736. 

68019157737.



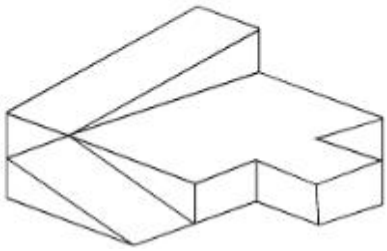


68019157738.

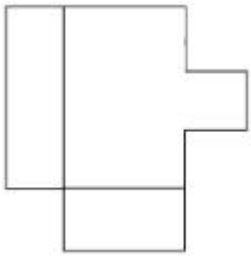
Question Number : 77 Question Id : 68019114877 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

प्रश्न आकृति में एक 3-D वस्तु दी गई है। उत्तर आकृतियों में से सही शीर्ष दृश्य की पहचान करें।

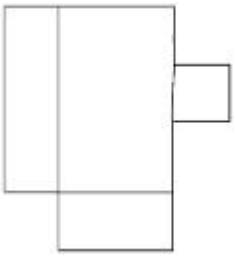


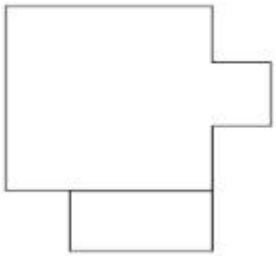
Options :

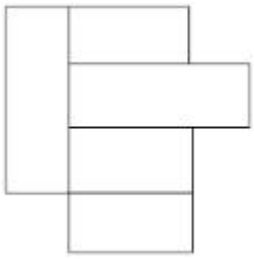


68019157735.

68019157736.



68019157737. 

68019157738. 

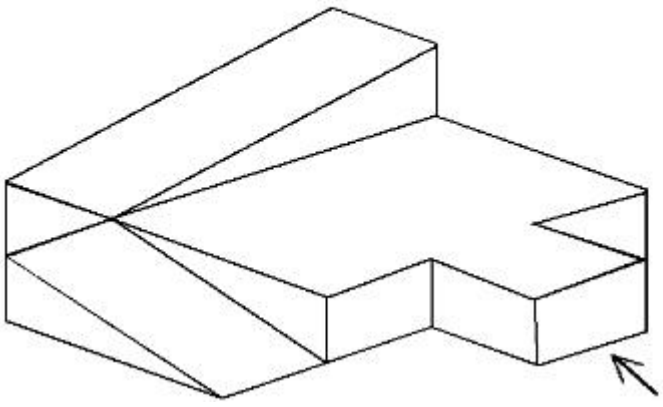
Question Number : 78 Question Id : 68019114878 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

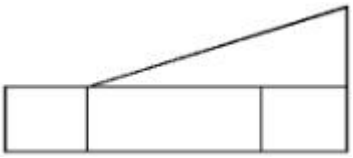
Correct Marks : 4 Wrong Marks : 1

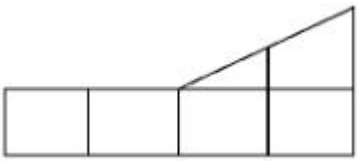
In question figure - 3D object is given, Identify the correct view of the object looking in the direction of the arrow, amongst the answer figures.

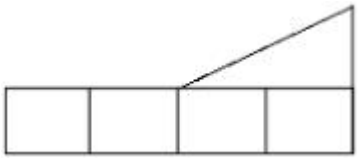


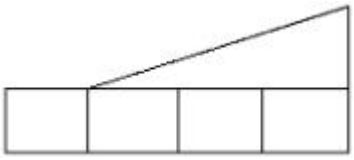
Options :

68019157739.



68019157740. 

68019157741. 

68019157742. 

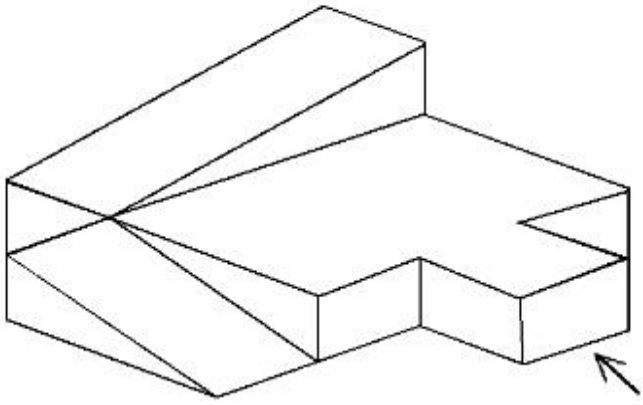
Question Number : 78 Question Id : 68019114878 Question Type : MCQ Option Shuffling : Yes

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

Minimum Instruction Time : 0

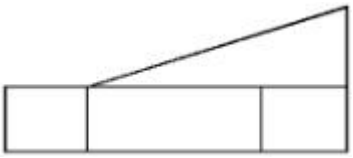
Correct Marks : 4 Wrong Marks : 1

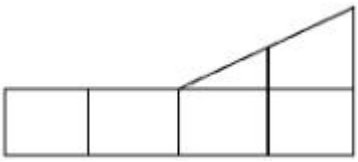
प्रश्न आकृति 3D वस्तु दर्शाई गई है। उत्तर आकृतियों में से तीर की दिशा में दिखाई दे रही वस्तु के सही दृश्य की पहचान करें।

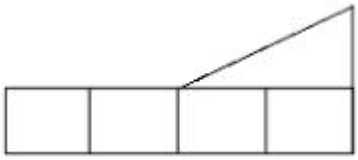


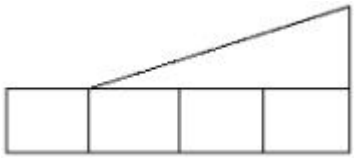
Options :

68019157739.



68019157740. 

68019157741. 

68019157742. 

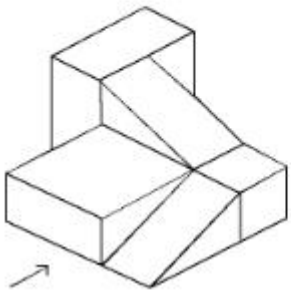
Question Number : 79 Question Id : 68019114879 Question Type : MCQ Option Shuffling : Yes

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

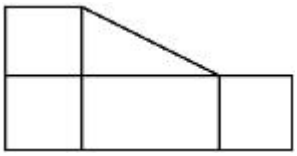
Minimum Instruction Time : 0

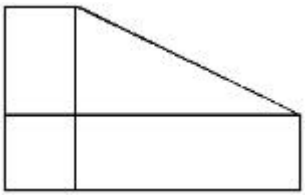
Correct Marks : 4 Wrong Marks : 1

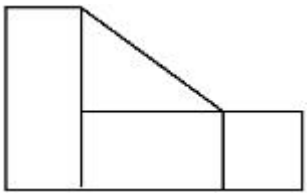
In question figure a 3-D object is given. Identify the correct view of the object looking in the direction of arrow, amongst the answer figures.

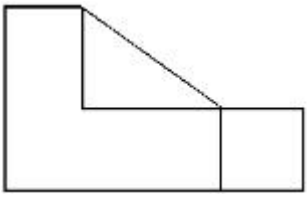


Options :

68019157743. 

68019157744. 

68019157745. 

68019157746. 

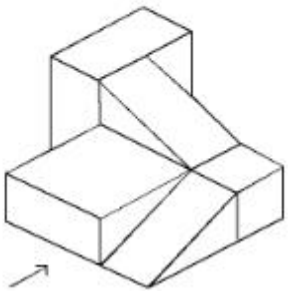
Question Number : 79 Question Id : 68019114879 Question Type : MCQ Option Shuffling : Yes

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

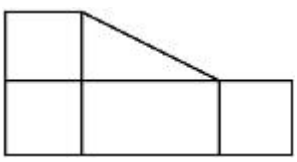
Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

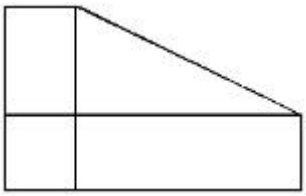
प्रश्न आकृति 3-D वस्तु दर्शाई गई है। उत्तर आकृति में से तीर की दिशा में दिखाई दे रही वस्तु के सही दृश्य की पहचान करें:

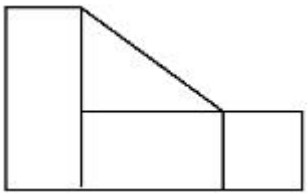


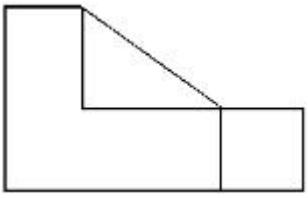
Options :

68019157743. 

68019157744.



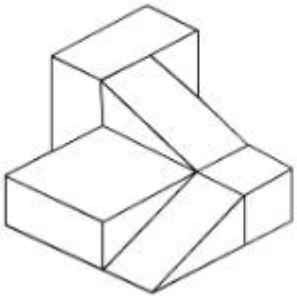
68019157745. 

68019157746. 

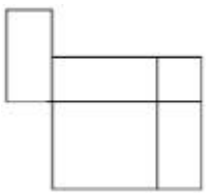
Question Number : 80 Question Id : 68019114880 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

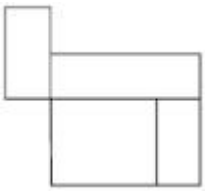
In the question figure a 3-D object is given. Identify the correct top view of the object amongst the answer figures.

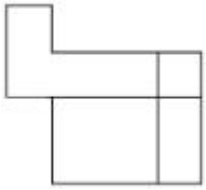


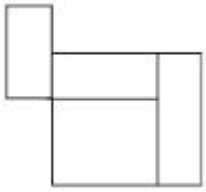
Options :

68019157747. 

68019157748.



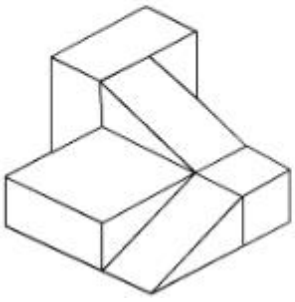
68019157749. 

68019157750. 

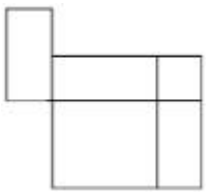
Question Number : 80 Question Id : 68019114880 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Wrong Marks : 1

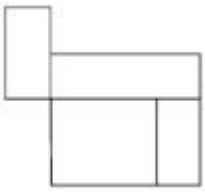
प्रश्न आकृति 3-D वस्तु दर्शाई गई है। उत्तर आकृतियों में से वस्तु की सही शीर्ष दृश्य की पहचान करें।

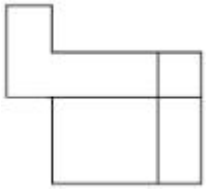


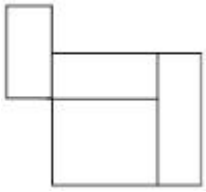
Options :

68019157747. 

68019157748.



68019157749. 

68019157750. 

Drawing

Section Id :	680191289
Section Number :	4
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	680191379
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 81 Question Id : 68019114881 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 50

Draw the sketch of the image given below in detail:

Use monochromatic colour rendering techniques, light and shadow to represent its depth and intensity.



Question Number : 81 Question Id : 68019114881 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 50

नीचे दिए गए चित्र का रेखाचित्र विस्तार पूर्वक बनाएं:

मोनोक्रोमोटिक रंग का उपयोग करें, प्रतिपादन तकनीकें प्रकाश और छाया, इनकी गहराई और तीव्रता का प्रतिनिधित्व करते हैं।



Question Number : 82 Question Id : 68019114882 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 50

Draw G20 Logo with one Alphabet, two numeric, a triangle, a circle, and a rectangle. Use any 3 colours of your choice

OR

Draw sketch of a road in one point perspective. Imagine the road to be a vehicular road with both side footpath having vendors and hawkers around it. Use colours of your choice.

Question Number : 82 Question Id : 68019114882 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 50

एक वर्ण, दो संख्यात्मक, एक त्रिकोण, एक वृत्त और एक आयत के साथ G20 लोगो बनाएं। अपनी पसंद के तीन रंगों का प्रयोग करें।

अथवा

एक बिन्दु के परिपेक्ष्य में एक सड़क का रेखाचित्र खींचे। कल्पना करें कि सड़क के दोनों ओर वाहनों का फुटपाथ है और चारों ओर विक्रेता व फेरीवाले हैं। अपनी पसंद के रंगों का प्रयोग करें।