

Department of Higher Education

Ministry of Education

Government of India

JEE(Main) 2023

Session 1

राष्ट्रीय परीक्षा एजेंसी

National Testing Agency

Excellence in Assessment

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Name:

Application No:

Challenges regarding Answer Key

Candidate Details

Application Number :

Candidate's Name :

Father's Name :

Roll Number :

Date of Birth :

Mother's Name :

Claimed Answer Key List

Paper	Question Type	QuestionID	Correct Option(s)/ Answers	Option(s) ID for Challenge				
B ARCH - Mathematics	Objective	7155052569	7155058082	<input type="checkbox"/> 7155058081	<input type="checkbox"/> 7155058082	<input type="checkbox"/> 7155058083	<input type="checkbox"/> 7155058084	<input type="checkbox"/> None of These
B ARCH - Mathematics	Objective	7155052570	7155058085	<input type="checkbox"/> 7155058085	<input type="checkbox"/> 7155058086	<input type="checkbox"/> 7155058087	<input type="checkbox"/> 7155058088	<input type="checkbox"/> None of These
B ARCH - Mathematics	Objective	7155052571	7155058092	<input type="checkbox"/> 7155058089	<input type="checkbox"/> 7155058090	<input type="checkbox"/> 7155058091	<input type="checkbox"/> 7155058092	<input type="checkbox"/> None of These
B ARCH - Mathematics	Objective	7155052572	7155058096	<input type="checkbox"/> 7155058093	<input type="checkbox"/> 7155058094	<input type="checkbox"/> 7155058095	<input type="checkbox"/> 7155058096	<input type="checkbox"/> None of These
B ARCH - Mathematics	Objective	7155052573	7155058100	<input type="checkbox"/> 7155058097	<input type="checkbox"/> 7155058098	<input type="checkbox"/> 7155058099	<input type="checkbox"/> 7155058100	<input type="checkbox"/> None of These
B ARCH - Mathematics	Objective	7155052574	7155058102	<input type="checkbox"/> 7155058101	<input type="checkbox"/> 7155058102	<input type="checkbox"/> 7155058103	<input type="checkbox"/> 7155058104	<input type="checkbox"/> None of These
B ARCH - Mathematics	Objective	7155052575	7155058107	<input type="checkbox"/> 7155058105	<input type="checkbox"/> 7155058106	<input type="checkbox"/> 7155058107	<input type="checkbox"/> 7155058108	<input type="checkbox"/> None of These
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B ARCH - Mathematics	Numerical	7155052589	24	<input type="text"/>				
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B ARCH - Mathematics	Numerical	7155052596	35	<input type="text"/>				
B ARCH - Mathematics	Numerical	7155052597	1073	<input type="text"/>				
B ARCH - Mathematics	Numerical	7155052598	4	<input type="text"/>				
B ARCH - Aptitude	Objective	7155052599	7155058174	<input type="checkbox"/> 7155058171	<input type="checkbox"/> 7155058172	<input type="checkbox"/> 7155058173	<input type="checkbox"/> 7155058174	<input type="checkbox"/> None of These
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B ARCH - Aptitude	Objective	7155052602	7155058184	<input type="checkbox"/> 7155058183	<input type="checkbox"/> 7155058184	<input type="checkbox"/> 7155058185	<input type="checkbox"/> 7155058186	<input type="checkbox"/> None of These
B ARCH - Aptitude	Objective	7155052603	7155058189	<input type="checkbox"/> 7155058187	<input type="checkbox"/> 7155058188	<input type="checkbox"/> 7155058189	<input type="checkbox"/> 7155058190	<input type="checkbox"/> None of These
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B ARCH - Aptitude	Objective	7155052609	7155058212	<input type="checkbox"/> 7155058211	<input type="checkbox"/> 7155058212	<input type="checkbox"/> 7155058213	<input type="checkbox"/> 7155058214	<input type="checkbox"/> None of These
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B ARCH - Aptitude	Objective	7155052615	7155058237	<input type="checkbox"/> 7155058235	<input type="checkbox"/> 7155058236	<input type="checkbox"/> 7155058237	<input type="checkbox"/> 7155058238	<input type="checkbox"/> None of These
B ARCH - Aptitude	Objective	7155052616	7155058241	<input type="checkbox"/> 7155058239	<input type="checkbox"/> 7155058240	<input type="checkbox"/> 7155058241	<input type="checkbox"/> 7155058242	<input type="checkbox"/> None of These
B ARCH - Aptitude	Objective	7155052617	7155058244	<input type="checkbox"/> 7155058243	<input type="checkbox"/> 7155058244	<input type="checkbox"/> 7155058245	<input type="checkbox"/> 7155058246	<input type="checkbox"/> None of These
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B ARCH - Aptitude	Objective	7155052631	7155058302	<input type="checkbox"/> 7155058299	<input type="checkbox"/> 7155058300	<input type="checkbox"/> 7155058301	<input type="checkbox"/> 7155058302	<input type="checkbox"/> None of These
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B TECH - Physics Section A	Objective	7155051711	7155055132	<input type="checkbox"/> 7155055131	<input type="checkbox"/> 7155055132	<input type="checkbox"/> 7155055133	<input type="checkbox"/> 7155055134	<input type="checkbox"/> None of These
B TECH - Physics Section A	Objective	7155051712	7155055138	<input type="checkbox"/> 7155055135	<input type="checkbox"/> 7155055136	<input type="checkbox"/> 7155055137	<input type="checkbox"/> 7155055138	<input type="checkbox"/> None of These
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JEE 2023 Session-1 24th Jan to 1st Feb 2023

Application No	
Candidate Name	
Roll No	
Test Date	
Test Time	3:00 PM - 6:30 PM
Subject	B ARCH

Section : Mathematics Section A

Q.1 The sum of the first eleven terms of the series is $\frac{1}{1+1^2+1^4} + \frac{2}{1+2^2+2^4} + \frac{3}{1+3^2+3^4} + \dots$

- Options
1. $\frac{61}{133}$
 2. $\frac{33}{67}$
 3. $\frac{16}{33}$
 4. $\frac{66}{133}$

Question Type : MCQ

Question ID : 7155052574

Option 1 ID : 7155058101

Option 2 ID : 7155058104

Option 3 ID : 7155058103

Option 4 ID : 7155058102

Status : Not Answered

Chosen Option : --

Q.2 If the system of equations

$$Kx - \sqrt{2}y + \sqrt{5}z = \sqrt{7}$$

$$\sqrt{5}x + \sqrt{3}y - \sqrt{2}z = \sqrt{11}$$

$$30x + (3\sqrt{15} - 5\sqrt{6})y + (5\sqrt{15} - 3\sqrt{10})z = 5\sqrt{21} + 3\sqrt{55}$$

has infinitely many solutions, then K^2 is

- Options
1. 9
 2. $\frac{1}{3}$
 3. 27
 4. 3

Question Type : MCQ

Question ID : 7155052572

Option 1 ID : 7155058095

Option 2 ID : 7155058094

Option 3 ID : 7155058093

Option 4 ID : 7155058096

Status : Not Answered

Chosen Option : --

Q.3 Let $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$, $\vec{b} = \hat{i} - \hat{j} + 2\hat{k}$, $\vec{c} = 2\hat{i} + \hat{j} - 4\hat{k}$ be three vectors. If \vec{r} is the vector such that $\vec{r} \times \vec{a} = (\vec{b} + \vec{c}) \times \vec{a}$ and $\vec{r} \cdot (\vec{b} - \vec{c}) = 0$, then $\vec{r} \cdot (\hat{i} + \hat{j} - \hat{k})$ is equal to :

- Options
1. 4
 2. 5
 3. 3
 4. 6

Question Type : MCQ

Question ID : 7155052584

Option 1 ID : 7155058142

Option 2 ID : 7155058143

Option 3 ID : 7155058141

Option 4 ID : 7155058144

Status : Not Answered

Chosen Option : --

Q.4 The probability that a randomly selected root of the equation $1 + x + x^2 + \dots + x^{118} = 0$ satisfies the equation $x^7 = 1$, is

- Options
1. $\frac{3}{59}$
 2. 0
 3. $\frac{7}{118}$
 4. $\frac{1}{59}$

Question Type : MCQ

Question ID : 7155052585

Option 1 ID : 7155058147

Option 2 ID : 7155058145

Option 3 ID : 7155058148

Option 4 ID : 7155058146

Status : Not Answered

Chosen Option : --

Q.5 Let X have the binomial distribution B(n, p). If its mean is 3 and variance is 2, then $P(X < \frac{n}{4})$ is equal to :

- Options
1. $\frac{29 \times 2^8}{3^9}$
 2. $\frac{835}{3^9}$
 3. $\frac{163}{3^9}$
 4. $\frac{25 \times 2^9}{3^9}$

Question Type : MCQ

Question ID : 7155052586

Option 1 ID : 7155058149

Option 2 ID : 7155058152

Option 3 ID : 7155058151

Option 4 ID : 7155058150

Status : Not Answered

Chosen Option : --

Q.6 Let $PL = 8$ units and $QM = 2$ units be two parallel line segments such that the line segments PM and QL intersect at the point R . If PL and QM are tangents to a circle passing through points P, Q, R then radius of this circle is

- Options 1. 2
2. $\sqrt{2}$
3. $2\sqrt{2}$
4. 4

Question Type : MCQ

Question ID : 7155052579

Option 1 ID : 7155058122

Option 2 ID : 7155058121

Option 3 ID : 7155058123

Option 4 ID : 7155058124

Status : Not Answered

Chosen Option : --

Q.7 The remainder when 7^{89} is divided by 15 is

- Options 1. 7
2. 11
3. 9
4. 5

Question Type : MCQ

Question ID : 7155052582

Option 1 ID : 7155058134

Option 2 ID : 7155058136

Option 3 ID : 7155058135

Option 4 ID : 7155058133

Status : Not Answered

Chosen Option : --

Q.8 Let $A_i(x_i, y_i)$, $i = 1, 2, 3$ be points on the circle $x^2 + y^2 = 10$ such that A_1 lies in the 1st quadrant and it is the image of point A_2 with respect to y -axis. If the distance of point A_1 from each of the points A_2 and A_3 is 2, then twenty times the area of the $\Delta A_1 A_2 A_3$ is

- Options 1. 24
2. 48
3. 12
4. 30

Question Type : MCQ

Question ID : 7155052581

Option 1 ID : 7155058131

Option 2 ID : 7155058132

Option 3 ID : 7155058129

Option 4 ID : 7155058130

Status : Not Answered

Chosen Option : --

Q.9 For $\alpha, \beta \in \mathbb{R}$, if the matrices $A = \begin{pmatrix} \alpha & 0 \\ 0 & \beta \end{pmatrix}$, $B = \begin{pmatrix} \alpha & 0 \\ 0 & \alpha \end{pmatrix}$ and $I = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ satisfy the equation $(A*B)*2I = 20I$, where $*$ is defined as $A*B = A^2 + B^2$, then $|\alpha\beta|$ is equal to :

- Options 1. 4
2. 2
3. $2\sqrt{2}$
4. $2\sqrt{3}$

Question Type : MCQ

Question ID : 7155052573

Option 1 ID : 7155058099

Option 2 ID : 7155058100

Option 3 ID : 7155058098

Option 4 ID : 7155058097

Status : Not Answered

Chosen Option : --

Q.10 If the plane $y = \alpha x - \beta z + \gamma$ passing through the point $(1, -1, 3)$ is perpendicular to each of the planes $2x + y + z = 1$ and $3x - 2y + 2z = 0$, then $\alpha + \beta + \gamma$ is equal to :

- Options 1. 13
2. 5
3. 19
4. 27

Question Type : MCQ

Question ID : 7155052583

Option 1 ID : 7155058138

Option 2 ID : 7155058137

Option 3 ID : 7155058139

Option 4 ID : 7155058140

Status : Not Answered

Chosen Option : --

Q.11 Let $[t]$ denote the greatest integer function. If $\int_0^1 [1+x^2+x^4] dx = a$, then $36a - 25a^2 + 8a^3 - a^4$ is equal to

- Options 1. -21
2. 19
3. 18
4. -19

Question Type : MCQ

Question ID : 7155052578

Option 1 ID : 7155058120

Option 2 ID : 7155058117

Option 3 ID : 7155058119

Option 4 ID : 7155058118

Status : Not Answered

Chosen Option : --

Q.12 For some $\alpha \in \mathbb{N}$, let PQR be a triangle with two fixed vertices $P(2, 5)$ and $Q(\alpha, -11)$. If the point R moves on the line $l_1: 9x + 7y + \alpha = 0$, then the centroid of ΔPQR moves on the line l_2 , which is parallel to l_1 at a distance $\frac{20}{3\sqrt{130}}$ units from it. If the distance of Q from l_2 is $\frac{k}{3\sqrt{130}}$, then k is equal to :

- Options**
1. 117
 2. 129
 3. 131
 4. 133

Question Type : MCQ

Question ID : 7155052580

Option 1 ID : 7155058125

Option 2 ID : 7155058126

Option 3 ID : 7155058127

Option 4 ID : 7155058128

Status : Not Answered

Chosen Option : --

Q.13 Let $P(\alpha, \beta, \lambda)$ be the image of the point $Q(1, 2, 0)$ in the line $\frac{x-5}{3} = \frac{y-12}{1} = \frac{z-10}{2}$, then $(PQ)^2$ is equal to

- Options**
1. 90
 2. 180
 3. 360
 4. 270

Question Type : MCQ

Question ID : 7155052576

Option 1 ID : 7155058109

Option 2 ID : 7155058110

Option 3 ID : 7155058111

Option 4 ID : 7155058112

Status : Not Answered

Chosen Option : --

Q.14 The domain of the function $f(x) = \cos^{-1}\left(\frac{x^2 - 3x + 2}{x^2 + 2x - 1}\right)$ is :

- Options**
1. $\mathbb{R} - \{-\sqrt{2} - 1, \sqrt{2} - 1\}$
 2. $\left[\sqrt{2} - 1, \frac{3}{5}\right]$
 3. $(-\infty, -1 - \sqrt{2}) \cup (\sqrt{2} - 1, \infty)$
 4. $\left[\frac{3}{5}, \infty\right)$

Question Type : MCQ

Question ID : 7155052587

Option 1 ID : 7155058155

Option 2 ID : 7155058153

Option 3 ID : 7155058156

Option 4 ID : 7155058154

Status : Not Answered

Chosen Option : --

Q.15 Which of the following statements is a tautology ?

- Options
1. $((p \Rightarrow q) \vee p) \Rightarrow p$
 2. $((p \wedge q) \Rightarrow p) \Rightarrow q$
 3. $((p \wedge q) \wedge (\sim q)) \Rightarrow p$
 4. $((p \Rightarrow q) \vee p) \Rightarrow q$

Question Type : MCQ

Question ID : 7155052588

Option 1 ID : 7155058160

Option 2 ID : 7155058158

Option 3 ID : 7155058159

Option 4 ID : 7155058157

Status : Not Answered

Chosen Option : --

Q.16 For $z = 2 + 5i$, the modulus of $2z^3 + 21z^2 - 58z + 4$ is :

- Options
1. 837
 2. 537
 3. 947
 4. 1153

Question Type : MCQ

Question ID : 7155052571

Option 1 ID : 7155058092

Option 2 ID : 7155058091

Option 3 ID : 7155058090

Option 4 ID : 7155058089

Status : Not Answered

Chosen Option : --

Q.17 A box contains 7 red and 9 white balls. The number of ways of drawing 8 balls such that there are at least three balls of each colour, is :

- Options
1. 8820
 2. 3515
 3. 10584
 4. 1764

Question Type : MCQ

Question ID : 7155052577

Option 1 ID : 7155058113

Option 2 ID : 7155058116

Option 3 ID : 7155058114

Option 4 ID : 7155058115

Status : Not Answered

Chosen Option : --

Q.18 Let R_1 and R_2 be two relations on \mathbb{R}^2 defined as

$$(a, b) R_1 (c, d) \text{ if } ad - bc \geq 0$$

$$(a, b) R_2 (c, d) \text{ if } a + d \geq b + c. \text{ Then :}$$

- Options
1. R_1 is transitive but R_2 is not transitive
 2. Both R_1 and R_2 are transitive
 3. Neither R_1 nor R_2 is transitive
 4. R_2 is transitive but R_1 is not transitive

Question Type : MCQ

Question ID : 7155052569

Option 1 ID : 7155058081

Option 2 ID : 7155058083

Option 3 ID : 7155058084

Option 4 ID : 7155058082

Status : Not Answered

Chosen Option : --

Q.19 $\lim_{x \rightarrow 0} (1 + 3x)^{\frac{x+2}{x}}$ is equal to

- Options
1. e^6
 2. e^3
 3. e^9
 4. e

Question Type : MCQ

Question ID : 7155052575

Option 1 ID : 7155058107

Option 2 ID : 7155058106

Option 3 ID : 7155058108

Option 4 ID : 7155058105

Status : Not Answered

Chosen Option : --

Q.20 Let α and β be the roots of $x^2 - 3x + 9 = 0$. Then $\left(\frac{\beta^{30}}{(9\alpha)^{10}} + \frac{\alpha^{30}}{(9\beta)^{10}} \right)^2$ is equal to

- Options
1. 3
 2. 9
 3. 1
 4. $\frac{1}{9}$

Question Type : MCQ

Question ID : 7155052570

Option 1 ID : 7155058087

Option 2 ID : 7155058088

Option 3 ID : 7155058085

Option 4 ID : 7155058086

Status : Not Answered

Chosen Option : --

Q.21 If S_n denotes the sum of first n terms of the series $7 + 10 + 16 + 25 + 37 + \dots$, then $S_{30} - S_{20}$ is equal to _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052592
Status : Not Answered

Q.22 The number of ways in which 30 identical pens can be distributed among 12 students so that each student gets at least one pen and exactly two students get at least two pens each, is _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052590
Status : Not Answered

Q.23 If the solution curve of the differential equation $\frac{x+y-2}{x+y-1} \frac{dy}{dx} = \frac{x+y+2}{x+y+1}$, $x+y > 2$ passes through the points $(\sqrt{2}, \sqrt{2})$ and $(2, \alpha)$, then $2\alpha - \log_e\left(\frac{\alpha^2 + 4\alpha + 2}{6}\right)$ is equal to _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052598
Status : Not Answered

Q.24 If $[t]$ denotes the greatest integer $\leq t$, then the number of points, at which the function $f(x) = [x+x^3] + |x-x^3| + \left|x + \frac{1}{2}\right|$ is not differentiable in the open interval $(-10, 10)$, is _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052593
Status : Not Answered

Q.25 If $\int \frac{dx}{(3x^2+5)\sqrt{10x^2+7}} = -\frac{1}{\sqrt{580}} \log_e |f(x)| + C$ where C is an arbitrary constant, then $f(0)$ is equal to

Given --
Answer :

Question Type : SA
Question ID : 7155052594
Status : Not Answered

Q.26 Let α_1, α_2 be the values of α such that the distance between the point $(2, 4, 3)$ and the plane $3x + y + \alpha z + 10 = 0$ is $\sqrt{35}$ units. Then the area of the triangle with vertices $(\alpha_1, \alpha_2, 0)$, $(\alpha_2, \alpha_1, 0)$ and $\left(\frac{164}{13}, 5, 0\right)$ is _____ unit².

Given --
Answer :

Question Type : SA
Question ID : 7155052596
Status : Not Answered

Q.27 Let O be the origin and let the vectors $\vec{OA} = -3\hat{i} + 7\hat{j} + 5\hat{k}$, $\vec{OB} = -5\hat{i} + 7\hat{j} - 3\hat{k}$ and $\vec{OC} = \hat{u}$ represent three sides of a parallelepiped, where \hat{u} is a unit vector in the xy- plane. If the maximum volume of the parallelepiped is $2\sqrt{\alpha}$, then α is equal to _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052597
Status : Not Answered

Q.28 The curve $y = x^2 + 1$ divides the area enclosed by the curves $y + |x| = 3$ and $y = |x-1|$ in the ratio m : n, where m and n are coprime, then m + n is equal to _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052589
Status : Not Answered

Q.29 Let the equation of the hyperbola with foci (1, 5), (1, -1) and eccentricity $\sqrt{3}$ be $x^2 - 2y^2 + ax + by + c = 0$. Then $|a + b + c|$ is equal to _____.

Given --
Answer :

Question Type : SA
Question ID : 7155052595
Status : Not Answered

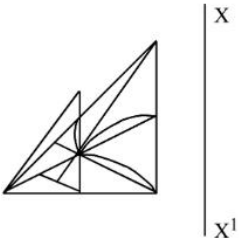
Q.30 Let $(1+x^2-x^4)^{12} = \sum_{n=0}^{48} a_n x^n$. Then $a_0 + a_2 + a_4 + \dots + a_{44}$ is equal to

Given --
Answer :

Question Type : SA
Question ID : 7155052591
Status : Not Answered

Section : Aptitude Test

Q.31 Identify the true mirror image of the figure amongst the answer figures with respect to X-X



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052644

Option 1 ID : 7155058353

Option 2 ID : 7155058354

Option 3 ID : 7155058351

Option 4 ID : 7155058352

Status : Answered

Chosen Option : 3

Q.32 Choose the correct option among the following:

Petronas Tower is situated in:

- Options
1. New York
 2. Kuala Lumpur
 3. Paris
 4. Dubai

Question Type : **MCQ**

Question ID : **7155052606**

Option 1 ID : **7155058202**

Option 2 ID : **7155058201**

Option 3 ID : **7155058199**

Option 4 ID : **7155058200**

Status : **Answered**

Chosen Option : **2**

Q.33 "NIFT" National Institute of Fashion Technology, Delhi is designed by

- Options
1. C.P Kukreja
 2. Raj Rewal
 3. Bimal Patel
 4. B.V Doshi

Question Type : **MCQ**

Question ID : **7155052619**

Option 1 ID : **7155058252**

Option 2 ID : **7155058253**

Option 3 ID : **7155058254**

Option 4 ID : **7155058251**

Status : **Not Answered**

Chosen Option : **--**

Q.34 Adobe is a

- Options
1. Type of cement
 2. Type of paint
 3. Type of Brick
 4. Type of floor finish

Question Type : **MCQ**

Question ID : **7155052599**

Option 1 ID : **7155058171**

Option 2 ID : **7155058173**

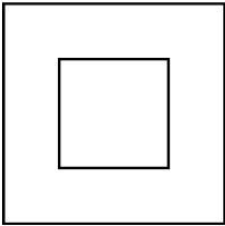
Option 3 ID : **7155058174**

Option 4 ID : **7155058172**

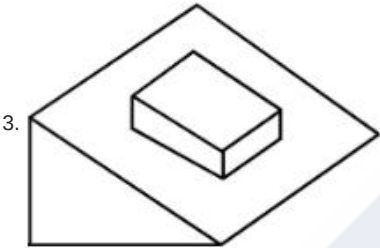
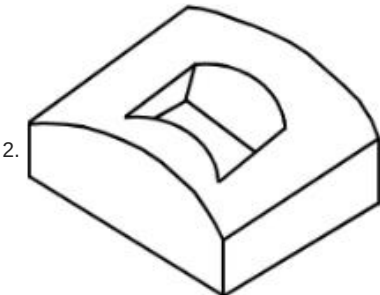
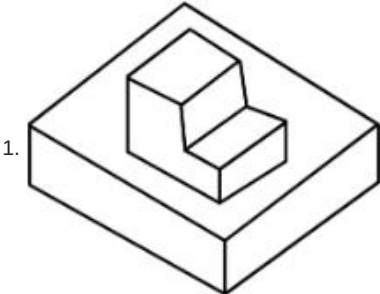
Status : **Not Answered**

Chosen Option : **--**

Q.35 Question figure shows top view/ plan of an object. Identify the INCORRECT 3D view from the given answers figure.



Options



Question Type : MCQ

Question ID : 7155052634

Option 1 ID : 7155058314

Option 2 ID : 7155058313

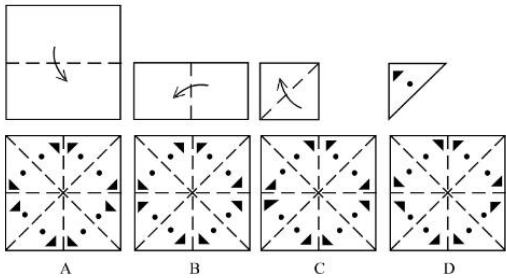
Option 3 ID : 7155058312

Option 4 ID : 7155058311

Status : Answered

Chosen Option : 2

Q.36 Sheet is folded in marked format and cut led at last as shown. Identify from the options below, how the pattern will be made when it's fully unfold?



- Options 1. **C**
2. **D**
3. **A**
4. **B**

Question Type : MCQ

Question ID : 7155052646

Option 1 ID : 7155058362

Option 2 ID : 7155058361

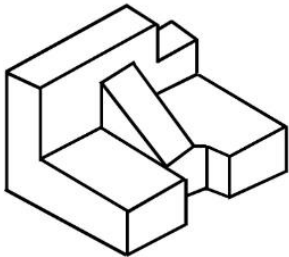
Option 3 ID : 7155058360

Option 4 ID : 7155058359

Status : Answered

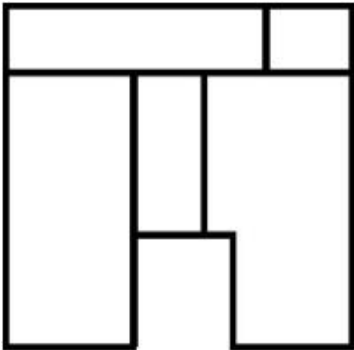
Chosen Option : 4

Q.37 The 3D problem figure shows the view of an object. Identify its appropriate top view from the answer figures.

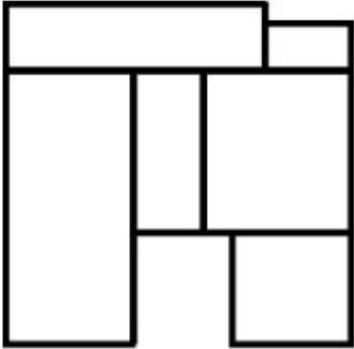


Options

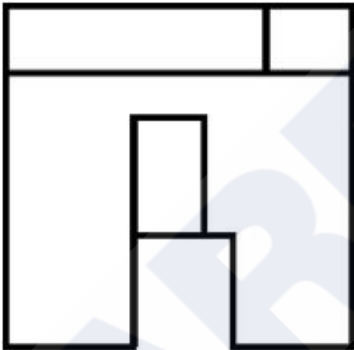
1.



2.



3.



4.



Question Type : MCQ

Question ID : 7155052637

Option 1 ID : 7155058323

Option 2 ID : 7155058324

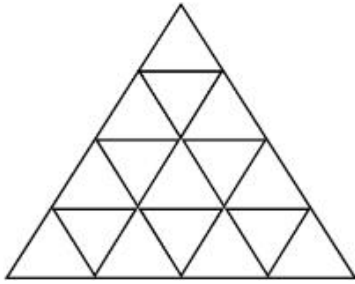
Option 3 ID : 7155058325

Option 4 ID : 7155058326

Status : Answered

Chosen Option : 1

Q.38 How many triangles are there in given figure:-



- Options 1. 27
2. 24
3. 26
4. 25

Question Type : MCQ

Question ID : 7155052624

Option 1 ID : 7155058273

Option 2 ID : 7155058274

Option 3 ID : 7155058271

Option 4 ID : 7155058272

Status : Not Answered

Chosen Option : --

Q.39 Which is the correct chronology of Human Civilizations in terms of their existence?

- Options 1. Mesopotamia-Egyptian-Harappa-Chinese
2. Egyptian-Mesopotamia-Harappa-Sumerian
3. Mesopotamia-Harappa-Egyptian-Chinese
4. Mesopotamia-Chinese-Harappa-Egyptian

Question Type : MCQ

Question ID : 7155052611

Option 1 ID : 7155058220

Option 2 ID : 7155058222

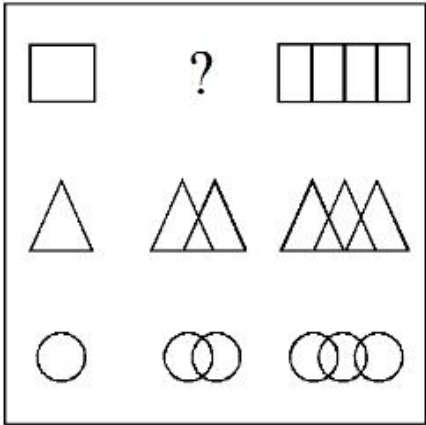
Option 3 ID : 7155058219

Option 4 ID : 7155058221

Status : Not Answered

Chosen Option : --

Q.40 In the figure mentioned below find the missing series:-



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052647

Option 1 ID : 7155058363

Option 2 ID : 7155058364





Option 3 ID : 7155058365

Option 4 ID : 7155058366

Status : Answered

Chosen Option : 3

Q.41 Match List I with List II

LIST I		LIST II	
A.		I.	Tesla
B.		II.	Ferrari
C.		III.	Porsche
D.		IV.	Toyota

Choose the correct answer from the options given below:

- Options
1. A-IV, B-I, C-II, D-III
 2. A-III, B-II, C-I, D-IV
 3. A-IV, B-III, C-II, D-I
 4. A-II, B-III, C-I, D-IV

Question Type : MCQ

Question ID : 7155052621

Option 1 ID : 7155058259

Option 2 ID : 7155058261

Option 3 ID : 7155058262

Option 4 ID : 7155058260

Status : Answered

Chosen Option : 1

Q.42 Given below are two statements:

Statement I : Red, Blue and Yellow are the primary colours of a colour wheel.

Statement II : The colours which are positioned opposite to each other in a colour wheel are known as complementary colours.

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

- Options**
1. Statement I is correct but statement II is incorrect
 2. Both Statement I and Statement II are correct
 3. Both Statement I and Statement II are incorrect
 4. Statement I is incorrect but statement II is correct

Question Type : **MCQ**

Question ID : **7155052622**

Option 1 ID : **7155058265**

Option 2 ID : **7155058263**

Option 3 ID : **7155058264**

Option 4 ID : **7155058266**

Status : **Answered**

Chosen Option : **1**

Q.43 Which one of these is not a complimentary colour?

- Options**
1. Violet-Yellow
 2. Red-Green
 3. Blue-Green
 4. Blue-Orange

Question Type : **MCQ**

Question ID : **7155052604**

Option 1 ID : **7155058194**

Option 2 ID : **7155058192**

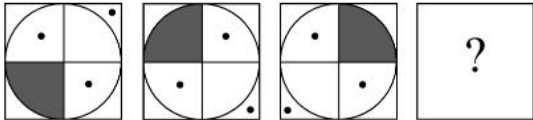
Option 3 ID : **7155058193**

Option 4 ID : **7155058191**

Status : **Not Answered**

Chosen Option : **--**

Q.44 Choose the correct option amongst the answer figures which complete the series.



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052645

Option 1 ID : 7155058356

Option 2 ID : 7155058358





Option 3 ID : 7155058355

Option 4 ID : 7155058357

Status : Answered

Chosen Option : 2

Q.45 Match List I with List II

LIST I		LIST II	
A.		I.	Empire state Building
B.		II.	Hagia Sophia
C.		III.	Sydney Opera House
D.		IV.	Colosseum

Choose the correct answer from the options given below:

- Options 1. A-II, B-I, C-IV, D-III
 2. A-I, B-II, C-III, D-IV
 3. A-IV, B-III, C-II, D-I
 4. A-I, B-III, C-IV, D-II

Question Type : MCQ

Question ID : 7155052620

Option 1 ID : 7155058255

Option 2 ID : 7155058257

Option 3 ID : 7155058258

Option 4 ID : 7155058256

Status : Answered

Chosen Option : 1

Q.46 Find the odd one out:-

7, 9, 25, 32, 43, 59

- Options
1. 59
 2. 32
 3. 25
 4. 9

Question Type : MCQ

Question ID : 7155052625

Option 1 ID : 7155058275

Option 2 ID : 7155058276

Option 3 ID : 7155058277

Option 4 ID : 7155058278

Status : Not Answered

Chosen Option : --

Q.47 Find the missing number in given series.

16, 33, 65, 131, 261, (.....)

- Options
1. 524
 2. 520
 3. 521
 4. 523

Question Type : MCQ

Question ID : 7155052630

Option 1 ID : 7155058297

Option 2 ID : 7155058298

Option 3 ID : 7155058296

Option 4 ID : 7155058295

Status : Not Answered

Chosen Option : --

Q.48 Dhajji-Dewari is a construction style popular predominantly in _____.

- Options
1. Mountainous Region
 2. Desert Areas
 3. Coastal Areas
 4. Plains

Question Type : MCQ

Question ID : 7155052615

Option 1 ID : 7155058237

Option 2 ID : 7155058238

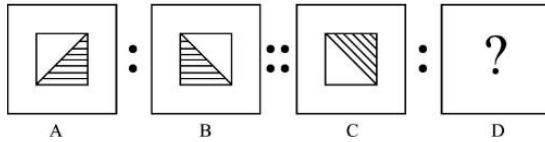
Option 3 ID : 7155058235

Option 4 ID : 7155058236

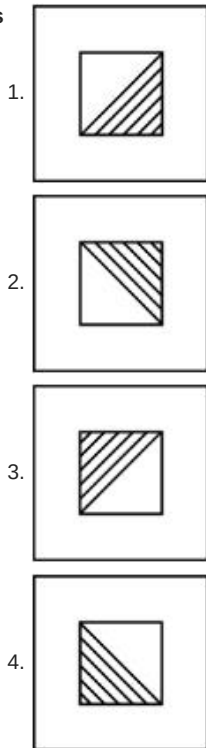
Status : Not Answered

Chosen Option : --

Q.49 The second figure in the first part of the problem figures bears certain relationship to the first figure. Similarly, one of the figures of answer figures bears the same relationship to the first figure of the second part. Identify the correct option from the given answer figures.



Options



Question Type : MCQ

Question ID : 7155052643

Option 1 ID : 7155058350

Option 2 ID : 7155058347

Option 3 ID : 7155058348

Option 4 ID : 7155058349

Status : Answered

Chosen Option : 3

Q.50 Given below are two statements:

Statement I : Chandigarh is the first planned city of Independent India

Statement II : Chandigarh city was designed by Swiss French architect Le Corbusier

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

- Options
1. Statement I is correct but statement II is incorrect
 2. Statement I is incorrect but statement II is correct
 3. Both Statement I and Statement II are incorrect
 4. Both Statement I and Statement II are correct

Question Type : MCQ

Question ID : 7155052600

Option 1 ID : 7155058177

Option 2 ID : 7155058178

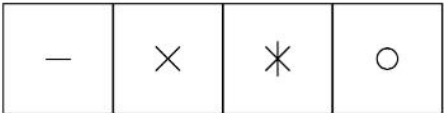
Option 3 ID : 7155058176

Option 4 ID : 7155058175

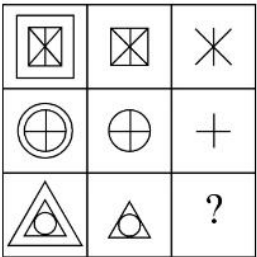
Status : Not Answered

Chosen Option : --

Q.51 Select a suitable figure from the four alternatives which will come in the empty box.



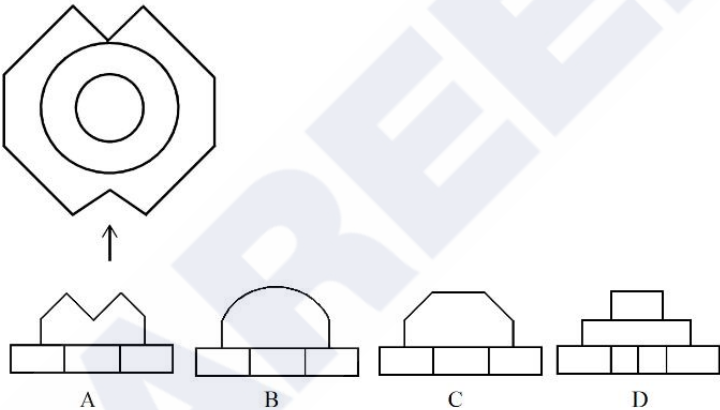
(A) (B) (C) (D)



- Options 1. A
2. D
3. B
4. C

Question Type : MCQ
Question ID : 7155052632
Option 1 ID : 7155058306
Option 2 ID : 7155058303
Option 3 ID : 7155058305
Option 4 ID : 7155058304
Status : Answered
Chosen Option : 2

Q.52 Identify the correct elevation when you look into the object from the marked arrow side of the plan of the object.



- Options 1. D
2. A
3. C
4. B

Question Type : MCQ
Question ID : 7155052638
Option 1 ID : 7155058327
Option 2 ID : 7155058328
Option 3 ID : 7155058330
Option 4 ID : 7155058329
Status : Answered
Chosen Option : 1

Q.53 A land size of 80 meter \times 40 meter for a house design is drawn on paper at a scale of 1:100, then what size is drawn on paper to represent the land?

- Options**
1. 4 meter \times 2 meter
 2. 8 meter \times 4 meter
 3. 80 meter \times 40 meter
 4. 8 centimeter \times 4 centimeter

Question Type : **MCQ**

Question ID : **7155052629**

Option 1 ID : **7155058294**

Option 2 ID : **7155058291**

Option 3 ID : **7155058292**

Option 4 ID : **7155058293**

Status : **Answered**

Chosen Option : **4**

Q.54 Qutub-Minar in Delhi was built by:

- Options**
1. Jahangir
 2. Qutub ud-din Aibak
 3. Shah Jahan
 4. Akbar

Question Type : **MCQ**

Question ID : **7155052612**

Option 1 ID : **7155058224**

Option 2 ID : **7155058226**

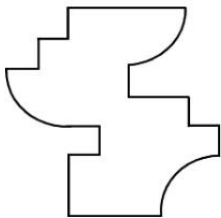
Option 3 ID : **7155058223**

Option 4 ID : **7155058225**

Status : **Answered**

Chosen Option : **2**

Q.55 If the question figure is cut into two parts, which of the answer figures complete the question figure without any overlappings?



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052636

Option 1 ID : 7155058322

Option 2 ID : 7155058320

Option 3 ID : 7155058321

Option 4 ID : 7155058319

Status : Answered

Chosen Option : 4

Q.56 Given below are two statements:

Statement I : Glass has low thermal conductivity

Statement II : Glass can absorb, refract and transmit light.

In the light of above statements, choose the most appropriate answer form the options given below

- Options**
1. Both Statement I and Statement II are incorrect
 2. Statement I is incorrect but statement II is correct
 3. Statement I is correct but statement II is incorrect
 4. Both Statement I and Statement II are correct

Question Type : **MCQ**

Question ID : **7155052601**

Option 1 ID : **7155058180**

Option 2 ID : **7155058182**

Option 3 ID : **7155058181**

Option 4 ID : **7155058179**

Status : **Not Answered**

Chosen Option : --

Q.57 Who is the architect of the famous "Jawaharlal Kala Complex" in Jaipur?

- Options**
1. Charles Correa
 2. Achyut Kanvinde
 3. Hafeez Contractor
 4. Raj Rewal

Question Type : **MCQ**

Question ID : **7155052614**

Option 1 ID : **7155058232**

Option 2 ID : **7155058233**

Option 3 ID : **7155058234**

Option 4 ID : **7155058231**

Status : **Not Answered**

Chosen Option : --

Q.58 Which stone is used for roofing in mountainous regions?

- Options**
1. Granite
 2. Sand Stone
 3. Shale
 4. Marble

Question Type : **MCQ**

Question ID : **7155052616**

Option 1 ID : **7155058240**

Option 2 ID : **7155058242**

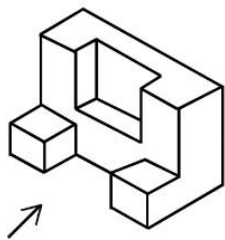
Option 3 ID : **7155058241**

Option 4 ID : **7155058239**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.59 The 3D figure shows the view of an object. Looking in the direction of arrow, identify the most appropriate elevation from the given answer figures.



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052633

Option 1 ID : 7155058309

Option 2 ID : 7155058308

Option 3 ID : 7155058307

Option 4 ID : 7155058310

Status : Answered

Chosen Option : 2

Q.60 The scale of a map is 1:1000. If a car travels 7 cm from point 'A' to point 'B' on the Map. Then how much the car has travelled in original:-

- Options 1. 0.7 km
2. 7000 mm
3. 7 km
4. 70 meter

Question Type : MCQ

Question ID : 7155052628

Option 1 ID : 7155058287

Option 2 ID : 7155058288

Option 3 ID : 7155058289

Option 4 ID : 7155058290

Status : Answered

Chosen Option : 4

Q.61 A residential building has 15 floors. The height of ground floor is 4.2 meter (including length and slab thickness). Rest all other floors are of 3.3 meter high (including slab thickness). What is the total height of the building (from ground to terrace) in meters?

- Options 1. 50 meter
2. 51.6 meter
3. 50.4 meter
4. 45.6 meter

Question Type : MCQ

Question ID : 7155052626

Option 1 ID : 7155058280

Option 2 ID : 7155058282

Option 3 ID : 7155058281

Option 4 ID : 7155058279

Status : Answered

Chosen Option : 3

Q.62 In a code language if ROMAN is written as TQOCP: then ITALY is.....

- Options 1. KVCNA
2. KVCMA
3. KUCLA
4. KWCNB

Question Type : MCQ

Question ID : 7155052631

Option 1 ID : 7155058302

Option 2 ID : 7155058299

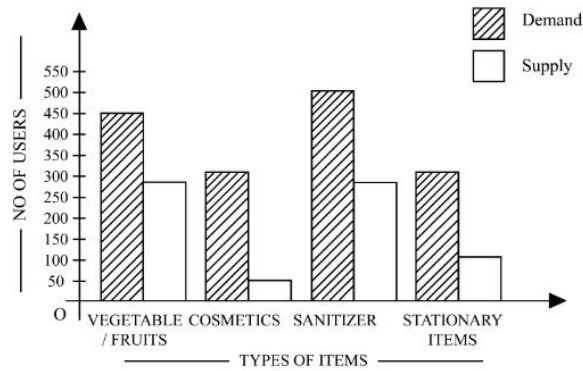
Option 3 ID : 7155058301

Option 4 ID : 7155058300

Status : Answered

Chosen Option : 1

Q.63



The diagram shows the supply and demand of different users for different items. Which of the following is/are correct?

- A. Sanitizer only meet 50% of the demand
- B. Cosmetics has the least supply among all.
- C. Among all, two items have equal demand but difference in supply
- D. Among all, two items have equal supply and two items have equal demand.

Choose the correct answer from the options given below:-

Options 1. B, C and D only

2. A and B only

3. B and D only

4. A and C only

Question Type : MCQ

Question ID : 7155052648

Option 1 ID : 7155058370

Option 2 ID : 7155058368

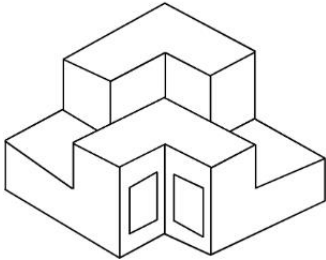
Option 3 ID : 7155058367

Option 4 ID : 7155058369

Status : Answered

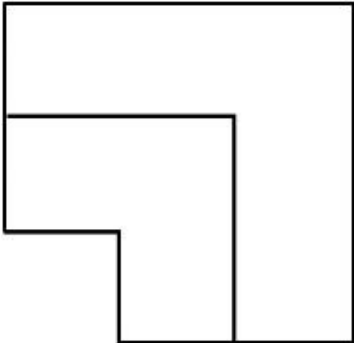
Chosen Option : 1

Q.64 From the given options below, choose the correct plan of the 3-D object, when viewed from the top.

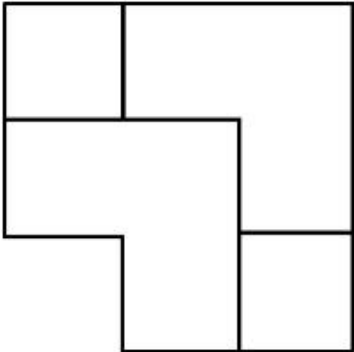


Options

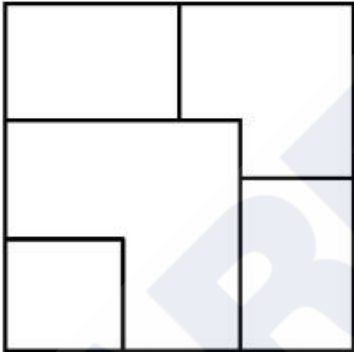
1.



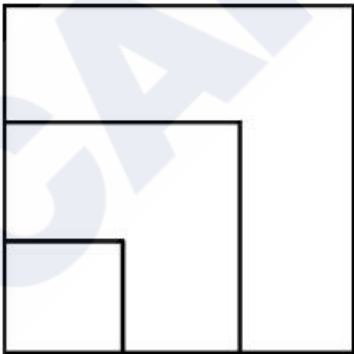
2.



3.



4.



Question Type : MCQ

Question ID : 7155052642

Option 1 ID : 7155058346

Option 2 ID : 7155058345

Option 3 ID : 7155058344

Option 4 ID : 7155058343

Status : Answered

Chosen Option : 2

Q.65 A paper is folded in a given pattern and it is cut at the end. Identify which pattern is formed when the paper is unfold.



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052639

Option 1 ID : 7155058331

Option 2 ID : 7155058333

Option 3 ID : 7155058332

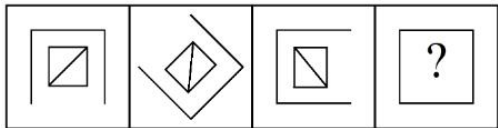
Option 4 ID : 7155058334

Status : Answered

Chosen Option : 4

Q.66 Following question consists of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.

PROBLEM FIGURES



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052623

Option 1 ID : 7155058269

Option 2 ID : 7155058268

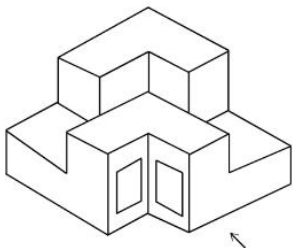
Option 3 ID : 7155058267

Option 4 ID : 7155058270

Status : Answered

Chosen Option : 4

Q.67 The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052640

Option 1 ID : 7155058335

Option 2 ID : 7155058338

Option 3 ID : 7155058336

Option 4 ID : 7155058337

Status : Answered

Chosen Option : 1

Q.68 Match List I with List II

LIST I		LIST II	
A.	PMUY	I.	KAUSHAL VISKAS YOJNA
B.	PMAY	II.	JAN DHAN YOJANA
C.	PMKVY	III.	UJJWALA YOJANA
D.	PMJDY	IV.	AWAS YOJANA

Choose the correct answer from the options given below:

- Options
1. A-IV, B-III, C-I, D-II
 2. A-III, B-IV, C-I, D-II
 3. A-IV, B-II, C-III, D-I
 4. A-I, B-III, C-II, D-IV

Question Type : MCQ

Question ID : 7155052602

Option 1 ID : 7155058186

Option 2 ID : 7155058184

Option 3 ID : 7155058185

Option 4 ID : 7155058183

Status : Answered

Chosen Option : 2

Q.69 If you have to build on the seashore in Goa, which rooms would have the best view of the sea?

- Options
1. Those facing East
 2. Those facing North
 3. Those facing West
 4. Those facing South

Question Type : MCQ

Question ID : 7155052618

Option 1 ID : 7155058249

Option 2 ID : 7155058247

Option 3 ID : 7155058250

Option 4 ID : 7155058248

Status : Answered

Chosen Option : 1

Q.70 In which State of India, Robbers cave is situated:

- Options
1. Himachal Pradesh
 2. Uttar Pradesh
 3. Madhya Pradesh
 4. Uttarakhand

Question Type : MCQ

Question ID : 7155052605

Option 1 ID : 7155058195

Option 2 ID : 7155058197

Option 3 ID : 7155058198

Option 4 ID : 7155058196

Status : Not Answered

Chosen Option : --

Q.71 Which direction in the southern hemisphere would you get glare free (diffused) light throughout the year?

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

Question Type : MCQ

Question ID : 7155052613

Option 1 ID : 7155058228

Option 2 ID : 7155058229

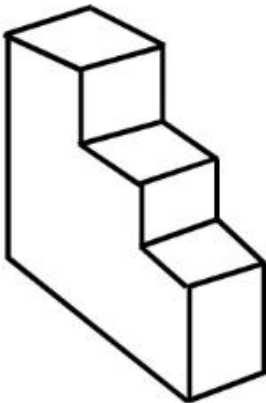
Option 3 ID : 7155058227

Option 4 ID : 7155058230

Status : Not Answered

Chosen Option : --

Q.72 How many surfaces does the object have?



- Options
1. 10
 2. 9
 3. 11
 4. 8

Question Type : MCQ

Question ID : 7155052635

Option 1 ID : 7155058316

Option 2 ID : 7155058315

Option 3 ID : 7155058318

Option 4 ID : 7155058317

Status : Answered

Chosen Option : 1

Q.73 Which are often referred as 'twin cities' of Odisha?

- Options
1. Bhubaneshwar-Cuttack
 2. Bhubaneshwar-Rourkela
 3. Bhubaneshwar-Puri
 4. Puri-Cuttack

Question Type : MCQ

Question ID : 7155052610

Option 1 ID : 7155058217

Option 2 ID : 7155058218

Option 3 ID : 7155058215

Option 4 ID : 7155058216

Status : Not Answered

Chosen Option : --

Q.74 The Konark Temple is located in which state?

- Options
1. Rajasthan
 2. Odisha
 3. Madhya Pradesh
 4. Karnataka

Question Type : **MCQ**

Question ID : **7155052607**

Option 1 ID : **7155058206**

Option 2 ID : **7155058204**

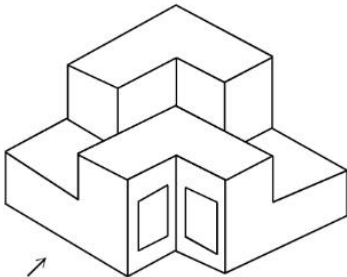
Option 3 ID : **7155058203**

Option 4 ID : **7155058205**

Status : **Answered**

Chosen Option : **4**

Q.75 The question figure shows the 3-D view of an object. Identify the correct view, looking in the direction of arrow.



Options

1.
2.
3.
4.

Question Type : MCQ

Question ID : 7155052641

Option 1 ID : 7155058341

Option 2 ID : 7155058339

Option 3 ID : 7155058342

Option 4 ID : 7155058340

Status : Answered

Chosen Option : 1

Q.76 Match List I with List II

LIST I		LIST II	
A.	CP Kukreja	I.	IIM Ahmedabad
B.	Louis I Kahn	II.	Jawahar Lal Nehru University
C.	B.V Doshi	III.	IIT Kanpur
D.	Achyut Kanvinde	IV.	IIM Bengaluru

Choose the correct answer from the options given below:

- Options 1. A-I, B-IV, C-III, D-II
 2. A-II, B-I, C-IV, D-III
 3. A-IV, B-II, C-I, D-III
 4. A-III, B-I, C-II, D-IV

Question Type : MCQ

Question ID : 7155052603

Option 1 ID : 7155058190

Option 2 ID : 7155058189

Option 3 ID : 7155058187

Option 4 ID : 7155058188

Status : Not Answered

Chosen Option : --

Q.77 A small lift for carrying only a small load is known as:

- Options 1. A dead Bearer
 2. A push upper
 3. A Jockey Boy
 4. A Dumb Waiter

Question Type : MCQ

Question ID : 7155052609

Option 1 ID : 7155058211

Option 2 ID : 7155058214

Option 3 ID : 7155058213

Option 4 ID : 7155058212

Status : Not Answered

Chosen Option : --

Q.78 Chandigarh is an example of which type of city planning.

- Options 1. Radio Centric
 2. Linear
 3. Grid-iron
 4. Organic

Question Type : MCQ

Question ID : 7155052617

Option 1 ID : 7155058243

Option 2 ID : 7155058245

Option 3 ID : 7155058244

Option 4 ID : 7155058246

Status : Answered

Chosen Option : 4

Q.79 Identify the mirror image of the given word:-

SUCCESS

- Options 1. 22ECCU2
 2. SSECCUS
 3. 2UECCU2
 4. SUCCESS

Question Type : MCQ

Question ID : 7155052627

Option 1 ID : 7155058283

Option 2 ID : 7155058286

Option 3 ID : 7155058284

Option 4 ID : 7155058285

Status : Answered

Chosen Option : 1

Q.80 Who is the architect of the Lotus Temple?

- Options 1. Mohse Safdi
 2. Louis I Kahn
 3. Richard Meyer
 4. Fariborz Sahba

Question Type : MCQ

Question ID : 7155052608

Option 1 ID : 7155058208

Option 2 ID : 7155058207

Option 3 ID : 7155058210

Option 4 ID : 7155058209

Status : Not Answered

Chosen Option : --

Section : Drawing

Q.81 Draw a proportionate sketch of given reference image. Use black and white rendering techniques of your choice.



Question Type : SUBJECTIVE

Question ID : 7155052649

Status : Not Attempted

Q.82 Use the basic 2D shapes found in a motor cycle and create an interesting 2D composition of your choice, colour with any three colours of your choice.

Question Type : SUBJECTIVE

Question ID : 7155052650

Status : Answered