

JEE Feb 2021 23rd S2

Application No	210310715671
Candidate Name	ABINAYA B
Roll No.	TN12000005
Test Date	23/02/2021
Test Time	3:00 PM - 6:30 PM
Subject	B ARCH

Section : Mathematics Section A

Q.1 Equations of the common tangent of the ellipse $\frac{(x+1)^2}{2^2} + \frac{(y-1)^2}{3^2} = 1$ and the circle $(x+1)^2 + (y-1)^2 = 4$ are :

- Options**
1. $y+3=0$ and $y-1=0$
 2. $y+3=0$ and $x-1=0$
 3. $x+3=0$ and $x-1=0$
 4. $x-3=0$ and $y+1=0$

Question Type : MCQ
Question ID : 70819113869
Option 1 ID : 70819146006
Option 2 ID : 70819146003
Option 3 ID : 70819146005
Option 4 ID : 70819146004
Status : Not Answered
Chosen Option : -

Q.2 If the equation of a line which divides the line segment joining the points (1, 0) and (3, 0) in the ratio 2 : 1 and is also perpendicular to it, is $ax=7$, then the value of a is equal to :

- Options**
1. 2
 2. 4
 3. 1
 4. 3

Question Type : MCQ
Question ID : 70819113867
Option 1 ID : 70819145995
Option 2 ID : 70819145997
Option 3 ID : 70819145998
Option 4 ID : 70819145996
Status : Not Answered
Chosen Option : -

Q.3

The probability of solving a problem in Mathematics by two students X and Y are $\frac{1}{4}$ and $\frac{1}{5}$ respectively. If both of them try to solve the problem independently, then the probability that the problem will be solved by exactly one of them is equal to :

Options

1. $\frac{19}{20}$
2. $\frac{7}{20}$
3. $\frac{12}{20}$
4. $\frac{1}{20}$

Question Type : MCQ

Question ID : 70819113865

Option 1 ID : 70819145989

Option 2 ID : 70819145987

Option 3 ID : 70819145990

Option 4 ID : 70819145988

Status : Not Answered

Chosen Option : -

Q.4

Let $|a| < 1$, $|b| < 1$, $|c| < 1$ and $x = \sum_{n=0}^{\infty} a^n$, $y = \sum_{n=0}^{\infty} b^n$, $z = \sum_{n=0}^{\infty} c^n$. If $\frac{1}{x}$, $\frac{1}{y}$, $\frac{1}{z}$ are in Arithmetic

Progression, then :

Options

1. a, b and c are in Geometric Progression
2. a, 2b and c are in Arithmetic Progression
3. a, b and c satisfy $2b^2 = ac$
4. a, b and c are in Arithmetic Progression

Question Type : MCQ

Question ID : 70819113859

Option 1 ID : 70819145964

Option 2 ID : 70819145965

Option 3 ID : 70819145966

Option 4 ID : 70819145963

Status : Not Answered

Chosen Option : -

Q.5

$\sum_{n=1}^{\infty} \frac{2n^2 + 7n + 5}{n!}$ is equal to :

- Options
1. $15e + 5$
 2. $15e - 5$
 3. $16e - 5$
 4. $16e - 7$

Question Type : MCQ

Question ID : 70819113860

Option 1 ID : 70819145967

Option 2 ID : 70819145968

Option 3 ID : 70819145969

Option 4 ID : 70819145970

Status : Not Answered

Chosen Option : -

Q.6

The values of s and t , for which the system of equations

$$x_1 + x_2 + x_3 = 5$$

$$x_1 + 2x_2 + 3x_3 = 9$$

$$x_1 + 3x_2 + sx_3 = t$$

has no solution, are :

- Options
1. $s \neq 5$
 2. $t \neq 13$
 3. $s = 5, t \neq 13$
 4. $s = 5, t = 13$

Question Type : MCQ

Question ID : 70819113871

Option 1 ID : 70819146012

Option 2 ID : 70819146014

Option 3 ID : 70819146013

Option 4 ID : 70819146011

Status : Not Answered

Chosen Option : -

Q.7

The polar form of the complex number $\frac{1+i}{1-i}$ is equal to :

Options

1. $\cos \frac{\pi}{4} - i \sin \frac{\pi}{4}$
2. $\cos \frac{\pi}{2} + i \sin \frac{\pi}{2}$
3. $\cos \frac{\pi}{2} - i \sin \frac{\pi}{2}$
4. $\cos \frac{\pi}{4} + i \sin \frac{\pi}{4}$

Question Type : MCQ

Question ID : 70819113866

Option 1 ID : 70819145994

Option 2 ID : 70819145991

Option 3 ID : 70819145992

Option 4 ID : 70819145993

Status : Not Answered

Chosen Option : -

Q.8

Derivative of $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ with respect to $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ in $(1, \infty)$, is :

Options

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

Question Type : MCQ

Question ID : 70819113872

Option 1 ID : 70819146017

Option 2 ID : 70819146016

Option 3 ID : 70819146018

Option 4 ID : 70819146015

Status : Not Answered

Chosen Option : -

Q.9

If $A = \begin{bmatrix} 1 & a \\ 0 & 1 \end{bmatrix}$, then A^k ($k \in \mathbb{N}$) is :

Options

1. $\begin{bmatrix} 1 & ka \\ 0 & 0 \end{bmatrix}$

2. $\begin{bmatrix} 1 & ka \\ 0 & 1 \end{bmatrix}$

3. $\begin{bmatrix} k & ka \\ 0 & k \end{bmatrix}$

4. $\begin{bmatrix} 1 & k^2a \\ 0 & 1 \end{bmatrix}$

Question Type : MCQ

Question ID : 70819113870

Option 1 ID : 70819146010

Option 2 ID : 70819146007

Option 3 ID : 70819146009

Option 4 ID : 70819146008

Status : Not Answered

Chosen Option : -

Q.10

If $y = \frac{ax - b}{(x-1)(x-4)}$ has an extremum at the point (2, -1), then the values of a and b are :

Options

1. $a = 0, b = 1$

2. $a = 1, b = 0$

3. $a = -1, b = 1$

4. $a = 0, b = -1$

Question Type : MCQ

Question ID : 70819113863

Option 1 ID : 70819145980

Option 2 ID : 70819145979

Option 3 ID : 70819145982

Option 4 ID : 70819145981

Status : Not Answered

Chosen Option : -

Q.11 The values of x , for which the vectors $\vec{a} = (x^2 - 16)\hat{i} + 4\hat{j} - (x^2 - 25)\hat{k}$ make acute angles with the (positive directions of) coordinate axes lie in :

- Options
1. $[-5, -4] \cup [4, 5]$
 2. $(-5, -4) \cup (4, 5)$
 3. $[-5, 4] \cup (-4, 5]$
 4. $(-5, 4) \cup (-4, 5)$

Question Type : MCQ

Question ID : 70819113875

Option 1 ID : 70819146027

Option 2 ID : 70819146029

Option 3 ID : 70819146028

Option 4 ID : 70819146030

Status : Not Answered

Chosen Option : -

Q.12 Let \vec{a} , \vec{b} and \vec{c} be three vectors such that $\frac{|\vec{a}|}{|\vec{b}|} = \frac{|\vec{b}|}{|\vec{c}|} = \frac{|\vec{c}|}{|\vec{a}|} = 1$. If $\vec{a} \times (\vec{a} \times \vec{c}) + \vec{b} = \vec{0}$, then

the acute angle between \vec{a} and \vec{c} is :

- Options
1. $\frac{5\pi}{12}$
 2. $\frac{\pi}{6}$
 3. $\frac{\pi}{4}$
 4. $\frac{\pi}{3}$

Question Type : MCQ

Question ID : 70819113873

Option 1 ID : 70819146022

Option 2 ID : 70819146019

Option 3 ID : 70819146020

Option 4 ID : 70819146021

Status : Not Answered

Chosen Option : -

Q.13

The value of the integral $\int_{-4}^4 |9-x^2| dx$ is :

- Options
1. $\frac{122}{3}$
 2. $\frac{121}{3}$
 3. $\frac{125}{3}$
 4. $\frac{128}{3}$

Question Type : MCQ

Question ID : 70819113856

Option 1 ID : 70819145952

Option 2 ID : 70819145951

Option 3 ID : 70819145953

Option 4 ID : 70819145954

Status : Not Answered

Chosen Option : -

Q.14

The distance between the planes $\vec{r} \cdot (2\hat{i} + \hat{j} - 2\hat{k}) + 5 = 0$ and $\vec{r} \cdot (6\hat{i} + 3\hat{j} - 6\hat{k}) + 2 = 0$ is :

- Options
1. $\frac{13}{9}$
 2. $\frac{1}{13}$
 3. $\frac{15}{4}$
 4. $\frac{9}{13}$

Question Type : MCQ

Question ID : 70819113864

Option 1 ID : 70819145985

Option 2 ID : 70819145986

Option 3 ID : 70819145984

Option 4 ID : 70819145983

Status : Not Answered

Chosen Option : -

Q.15 The least positive integral value of λ such that $10^{50} + (3 \times (4)^{52}) + \lambda$ is divisible by 9 is :

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

Question Type : **MCQ**

Question ID : **70819113861**

Option 1 ID : **70819145971**

Option 2 ID : **70819145973**

Option 3 ID : **70819145974**

Option 4 ID : **70819145972**

Status : **Not Answered**

Chosen Option : -

Q.16 The sum of infinite number of terms of a Geometric Progression is 3 and the sum of the squares of its terms is $\frac{9}{2}$. The sum of the cubes of its terms is :

- Options
1. $\frac{31}{13}$
 2. $\frac{54}{7}$
 3. $\frac{108}{13}$
 4. $\frac{27}{2}$

Question Type : **MCQ**

Question ID : **70819113857**

Option 1 ID : **70819145955**

Option 2 ID : **70819145958**

Option 3 ID : **70819145956**

Option 4 ID : **70819145957**

Status : **Not Answered**

Chosen Option : -

Q.17 Equation of the circle, which is the mirror image of the circle $x^2 + y^2 - 2x = 0$ with respect to the line $x + y = 2$, is :

- Options
1. $2(x^2 + y^2) - x + y + 1 = 0$
 2. $x^2 + y^2 - 4x - 2y + 4 = 0$
 3. $x^2 + y^2 - 2x - 4y + 3 = 0$
 4. $x^2 + y^2 - 2x + 4y + 3 = 0$

Question Type : MCQ

Question ID : 70819113868

Option 1 ID : 70819146001

Option 2 ID : 70819146000

Option 3 ID : 70819146002

Option 4 ID : 70819145999

Status : Not Answered

Chosen Option : -

Q.18 Which of the following Boolean expression is a tautology ?

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

Question Type : MCQ

Question ID : 70819113858

Option 1 ID : 70819145960

Option 2 ID : 70819145961

Option 3 ID : 70819145959

Option 4 ID : 70819145962

Status : Not Answered

Chosen Option : -

Q.19 There are 4, 5 and 6 points on the three parallel and co-planar lines. If no set of four or more points is cyclic and no set of three points lying on distinct lines is collinear, then the number of circles passing through exactly three points is :

- Options
1. 435
 2. 455
 3. 421
 4. 441

Question Type : MCQ

Question ID : 70819113862

Option 1 ID : 70819145977

Option 2 ID : 70819145975

Option 3 ID : 70819145976

Option 4 ID : 70819145978

Status : Not Answered

Chosen Option : -

Q.20 Solution of the differential equation $(1 + y^2)dx = (\tan^{-1}y - x)dy$ is :
(where c is an arbitrary constant)

- Options
1. $x = \tan^{-1}y - 1 + ce^{-\tan^{-1}y}$
 2. $x = -\tan^{-1}y - 1 - ce^{\tan^{-1}x}$
 3. $y = \tan^{-1}y - 1 + ce^{-\tan^{-1}x}$
 4. $x = 1 - \tan^{-1}y + ce^{-\tan^{-1}y}$

Question Type : MCQ
Question ID : 70819113874
Option 1 ID : 70819146025
Option 2 ID : 70819146026
Option 3 ID : 70819146024
Option 4 ID : 70819146023
Status : Not Answered
Chosen Option : -

Section : Mathematics Section B

Q.1 If the sum of mean and variance of a binomial distribution is 15 and the sum of their squares is 117, then the number of independent trials is equal to _____.

Given 405
Answer :

Question Type : SA
Question ID : 70819113882
Status : Answered

Q.2 If $x^2 + x + 1 = 0$, then $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$ is _____.

Given -
Answer :

Question Type : SA
Question ID : 70819113880
Status : Not Answered

Q.3 The minimum value of $9\tan^2\theta + 4\cot^2\theta$ is _____.

Given -
Answer :

Question Type : SA
Question ID : 70819113877
Status : Not Answered

Q.4 $\int_0^{\pi} \sqrt{\frac{1 + \cos 2x}{2}} dx$ is _____.

Given –
Answer :

Question Type : SA
Question ID : 70819113876
Status : Not Answered

Q.5 $x^2 + y^2 - 4x - 2y - 11 = 0$ is a circle to which tangents are drawn from the point (4, 5) which form a quadrilateral with a pair of radii. The area of this quadrilateral in square units is _____.

Given –
Answer :

Question Type : SA
Question ID : 70819113881
Status : Not Answered

Q.6 The number of real solutions in the interval $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ of the equation $4\sin^2 x - 8\sin x + 3 = 0$ is _____.

Given –
Answer :

Question Type : SA
Question ID : 70819113884
Status : Not Answered

Q.7 Let the equation of the plane passing through the points (1, 2, 6), (2, 5, 7) and perpendicular to the plane $4x - y + z = 15$ be $ax + by + cz + d = 0$. If $a, b, c, d \in \mathbb{Z}$ with $\gcd(|a|, |b|, |c|) = 1$, then $|a + b + c + d|$ is equal to _____.

Given –
Answer :

Question Type : SA
Question ID : 70819113883
Status : Not Answered

Q.8 The length of the perpendicular from the point (1, 2, 3) to the line $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ is _____.

Given –
Answer :

Question Type : SA
Question ID : 70819113878
Status : Not Answered

Q.9

If $\log_3 2$, $\log_3(2^x - 5)$ and $\log_3\left(2^x - \frac{7}{2}\right)$ are in Arithmetic Progression, then the value of x is

_____.

Given –
Answer :

Question Type : SA

Question ID : 70819113879

Status : Not Answered

Q.10

Let A_1, A_2, A_3, \dots be an increasing geometric progression. If $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ and $A_5 A_7 = 441$, then $3(A_2 + A_4)$ is equal to _____.

Given –
Answer :

Question Type : SA

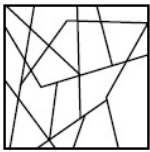
Question ID : 70819113885

Status : Not Answered

Section : Aptitude Test

Q.1

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



Options

1.



2.



3.



4.



Question Type : MCQ

Question ID : 70819113913

Option 1 ID : 70819146149

Option 2 ID : 70819146151

Option 3 ID : 70819146150

Option 4 ID : 70819146152

Status : Answered

Chosen Option : 4

Q.2 In the Southern Hemisphere shadowless light is from which direction ?

Options 1. West

2. East

3. South

4. North

Question Type : MCQ

Question ID : 70819113902

Option 1 ID : 70819146108

Option 2 ID : 70819146107

Option 3 ID : 70819146106

Option 4 ID : 70819146105

Status : Answered

Chosen Option : 1

Q.3 One of the following answer figures is hidden in problem figure in same size and direction.
Select correct one.



Options



Question Type : MCQ

Question ID : 70819113911

Option 1 ID : 70819146143

Option 2 ID : 70819146142

Option 3 ID : 70819146144

Option 4 ID : 70819146141

Status : Answered

Chosen Option : 1

Q.4 Book 'God of small things' is written by which Indian Architect ?

- Options
1. Revati Kamat
 2. Bimal Patel
 3. Arundhati Roy
 4. B.V. Doshi

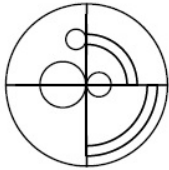
Question Type : MCQ
Question ID : 70819113892
Option 1 ID : 70819146067
Option 2 ID : 70819146068
Option 3 ID : 70819146066
Option 4 ID : 70819146065
Status : Not Answered
Chosen Option : -

Q.5 The monsoon wind enters in Indian sub-continent from which direction ?

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

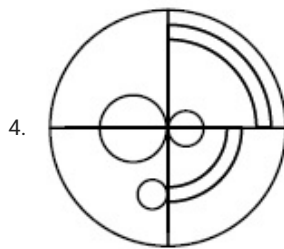
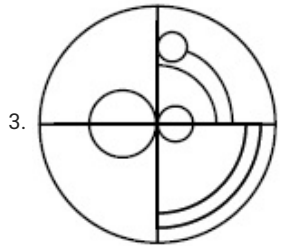
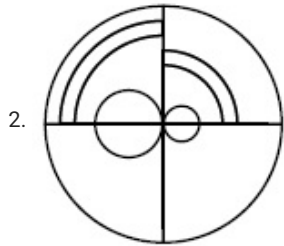
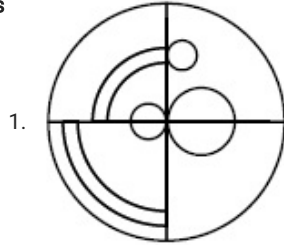
Question Type : MCQ
Question ID : 70819113894
Option 1 ID : 70819146073
Option 2 ID : 70819146074
Option 3 ID : 70819146076
Option 4 ID : 70819146075
Status : Answered
Chosen Option : 2

Q.6 Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



X ————— X

Options



Question Type : **MCQ**

Question ID : **70819113916**

Option 1 ID : **70819146161**

Option 2 ID : **70819146162**

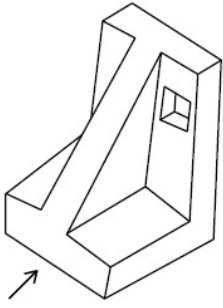
Option 3 ID : **70819146164**

Option 4 ID : **70819146163**

Status : **Answered**

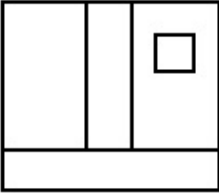
Chosen Option : **4**

Q.7 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

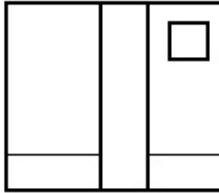


Options

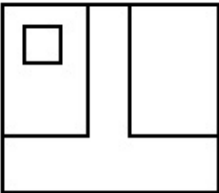
1.



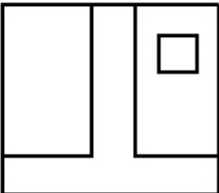
2.



3.



4.



Question Type : MCQ

Question ID : 70819113927

Option 1 ID : 70819146205

Option 2 ID : 70819146206

Option 3 ID : 70819146208

Option 4 ID : 70819146207

Status : Answered

Chosen Option : 4

Q.8 Match List - I with List - II.

List - I		List - II	
(I) Yadvindra Garden	(a)	Manali	
(II) Vishnu Temple	(b)	Amritsar	
(III) Hidimba Temple	(c)	Pinjore	
(IV) Hari Mandir	(d)	Buniyar	

- Options
1. (I)-(b), (II)-(d), (III)-(a), (IV)-(c)
 2. (I)-(d), (II)-(b), (III)-(c), (IV)-(a)
 3. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)
 4. (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

Question Type : MCQ

Question ID : 70819113890

Option 1 ID : 70819146060

Option 2 ID : 70819146059

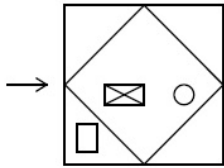
Option 3 ID : 70819146058

Option 4 ID : 70819146057

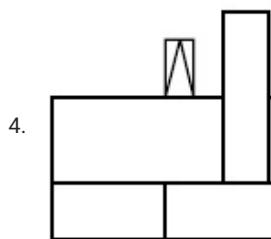
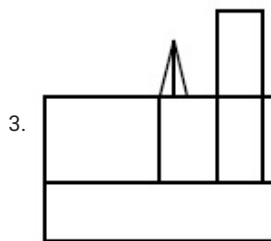
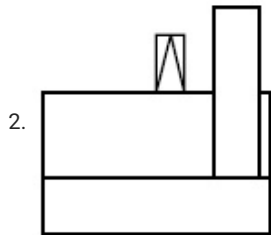
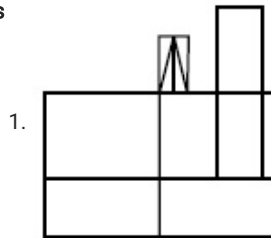
Status : Not Answered

Chosen Option : -

Q.9 The problem figure shows the top view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options



Question Type : MCQ

Question ID : 70819113908

Option 1 ID : 70819146131

Option 2 ID : 70819146132

Option 3 ID : 70819146129

Option 4 ID : 70819146130

Status : Answered

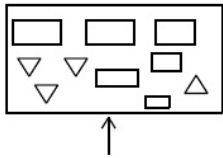
Chosen Option : 2

Q.10 The first Indian Architect who has won Pritzker Prize in 2018 is :

- Options
1. B.V. Doshi
 2. Raj Rewal
 3. Laurie Baker
 4. Achyut Kanvinde

Question Type : MCQ
Question ID : 70819113903
Option 1 ID : 70819146109
Option 2 ID : 70819146111
Option 3 ID : 70819146110
Option 4 ID : 70819146112
Status : Answered
Chosen Option : 1

Q.11 The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



- Options
1.

A bar chart with 6 bars. The heights from left to right are: tall, medium, tall, medium, tall, and very tall.
 2.

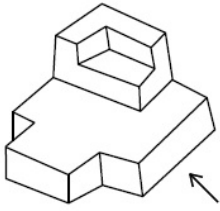
A bar chart with 6 bars. The heights from left to right are: tall, medium, tall, medium, short, and medium.
 3.

A bar chart with 6 bars. The heights from left to right are: tall, tall, tall, tall, medium, and tall.
 4.

A bar chart with 6 bars. The heights from left to right are: short, tall, medium, short, short, and tall.

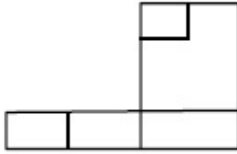
Question Type : MCQ
Question ID : 70819113934
Option 1 ID : 70819146236
Option 2 ID : 70819146235
Option 3 ID : 70819146233
Option 4 ID : 70819146234
Status : Answered
Chosen Option : 3

Q.12 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

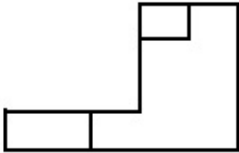


Options

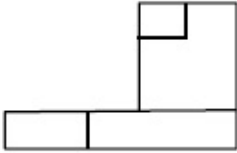
1.



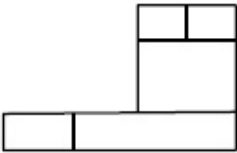
2.



3.



4.



Question Type : MCQ

Question ID : 70819113928

Option 1 ID : 70819146209

Option 2 ID : 70819146212

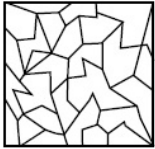
Option 3 ID : 70819146210

Option 4 ID : 70819146211

Status : Answered

Chosen Option : 3

Q.13 One of the following answer figures is hidden in problem figure in the same size and direction.
Select correct one.



Options

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

Question Type : **MCQ**

Question ID : **70819113912**

Option 1 ID : **70819146147**

Option 2 ID : **70819146145**

Option 3 ID : **70819146148**

Option 4 ID : **70819146146**

Status : **Answered**

Chosen Option : **2**

Q.14 Which of the following building represents the colonial Architectural pattern in India ?

- Options**
1. **LIC Building in Delhi**
 2. **Charminar in Hyderabad**
 3. **Bharat Bhavan in Bhopal**
 4. **Victoria Memorial in Kolkata**

Question Type : **MCQ**

Question ID : **70819113895**

Option 1 ID : **70819146078**

Option 2 ID : **70819146079**

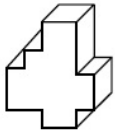
Option 3 ID : **70819146077**

Option 4 ID : **70819146080**

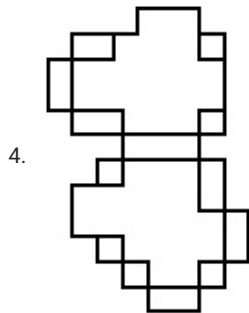
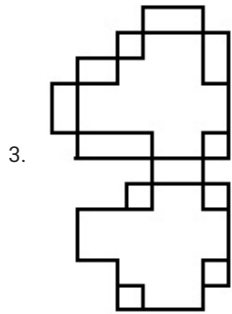
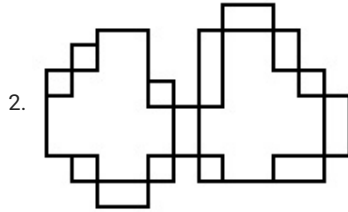
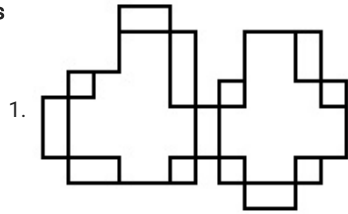
Status : **Not Answered**

Chosen Option : **-**

Q.15 A drawing is provided with all the folds to construct the following three Dimensional object.
Select the correct one.



Options



Question Type : MCQ

Question ID : 70819113907

Option 1 ID : 70819146125

Option 2 ID : 70819146127

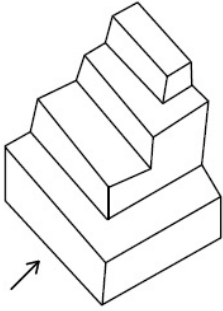
Option 3 ID : 70819146128

Option 4 ID : 70819146126

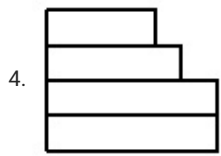
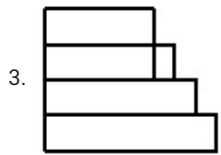
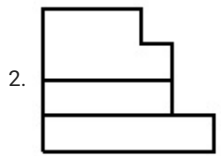
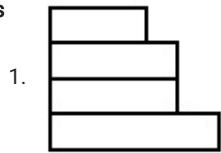
Status : Not Answered

Chosen Option : -

Q.16 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options



Question Type : MCQ

Question ID : 70819113926

Option 1 ID : 70819146201

Option 2 ID : 70819146202

Option 3 ID : 70819146204

Option 4 ID : 70819146203

Status : Answered

Chosen Option : 1

Q.17 Which amongst the following Architect has designed the famous Temple "Akshardham" ?

- Options**
1. Ashok Lall
 2. C. Sompura
 3. Vikram Lall
 4. Sanjay Puri

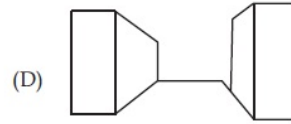
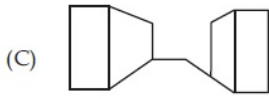
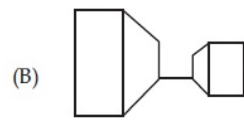
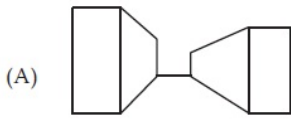
Question Type : **MCQ**
Question ID : **70819113898**
Option 1 ID : **70819146091**
Option 2 ID : **70819146092**
Option 3 ID : **70819146090**
Option 4 ID : **70819146089**
Status : **Answered**
Chosen Option : **4**

Q.18 Which among the following is the full form of the 'UNESCO' ?

- Options**
1. United Nations Entrance Site Calling Organization.
 2. United Nations Educational Security Cultural Organization.
 3. United Nations Educational, Scientific & Cultural Organization.
 4. United Nations Educational, Sustainable & Cultural Organization.

Question Type : **MCQ**
Question ID : **70819113886**
Option 1 ID : **70819146043**
Option 2 ID : **70819146042**
Option 3 ID : **70819146041**
Option 4 ID : **70819146044**
Status : **Answered**
Chosen Option : **4**

Q.19 Identify the building compositions of having less visual tension amongst the following figures.



Options 1. (C) and (D)

2. (B) and (C)

3. (A) and (B)

4. (D) and (A)

Question Type : MCQ

Question ID : 70819113933

Option 1 ID : 70819146231

Option 2 ID : 70819146230

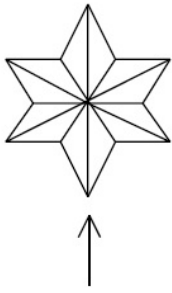
Option 3 ID : 70819146229

Option 4 ID : 70819146232

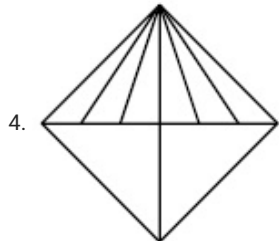
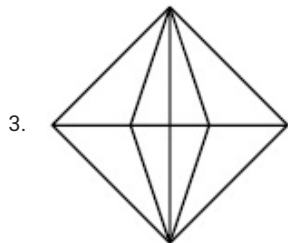
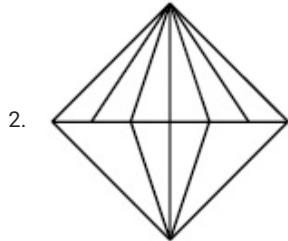
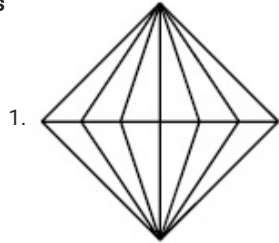
Status : Answered

Chosen Option : 1

Q.20 The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



Options



Question Type : **MCQ**

Question ID : **70819113935**

Option 1 ID : **70819146237**

Option 2 ID : **70819146238**

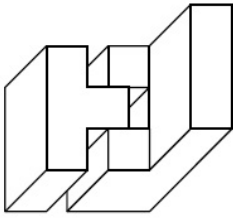
Option 3 ID : **70819146240**

Option 4 ID : **70819146239**

Status : **Answered**

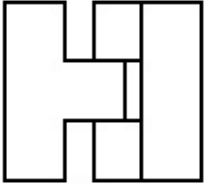
Chosen Option : **3**

Q.21 The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

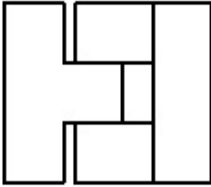


Options

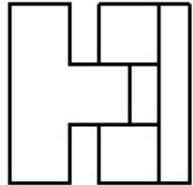
1.



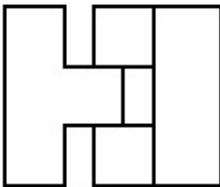
2.



3.



4.



Question Type : MCQ

Question ID : 70819113930

Option 1 ID : 70819146218

Option 2 ID : 70819146217

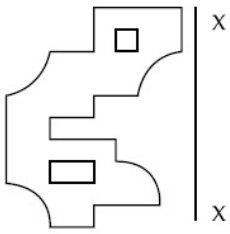
Option 3 ID : 70819146220

Option 4 ID : 70819146219

Status : Not Answered

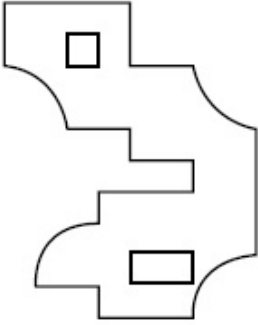
Chosen Option : -

Q.22 Which one of the answer figures is correct mirror image of problem figure with respect to X-X ?

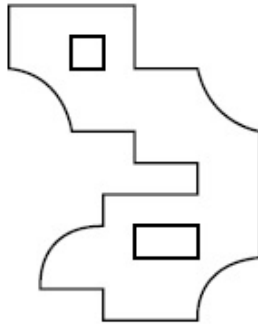


Options

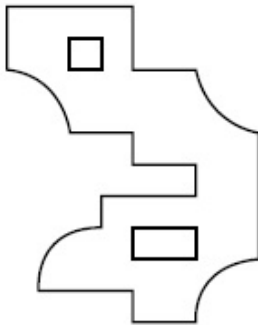
1.



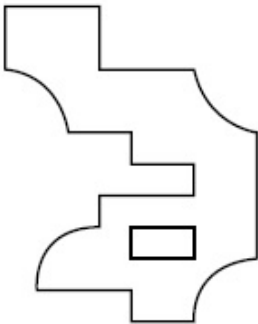
2.



3.



4.



Question Type : MCQ

Question ID : 70819113915

Option 1 ID : 70819146159

Option 2 ID : 70819146160

Option 3 ID : 70819146158

Option 4 ID : 70819146157

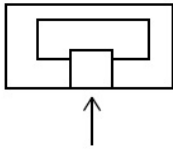
Status : **Not Answered**
Chosen Option : -

Q.23 'Agenda 21' is declaration related with :

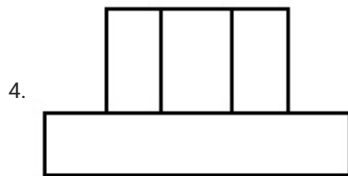
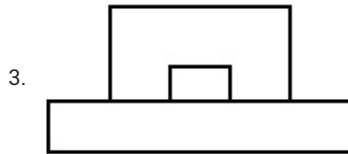
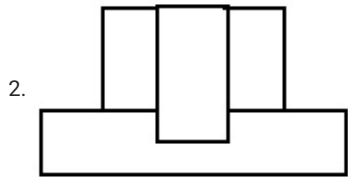
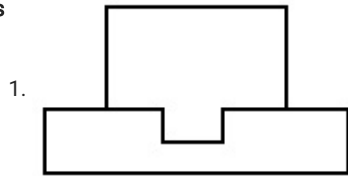
- Options
1. Sustainable development
 2. Global warming
 3. Smart city
 4. Climate change

Question Type : **MCQ**
Question ID : **70819113900**
Option 1 ID : **70819146099**
Option 2 ID : **70819146098**
Option 3 ID : **70819146100**
Option 4 ID : **70819146097**
Status : **Not Answered**
Chosen Option : -

Q.24 The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



Options



Question Type : MCQ

Question ID : 70819113909

Option 1 ID : 70819146134

Option 2 ID : 70819146133

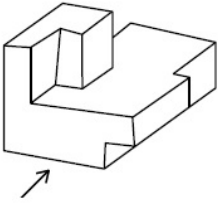
Option 3 ID : 70819146135

Option 4 ID : 70819146136

Status : Answered

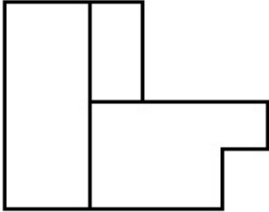
Chosen Option : 4

Q.25 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

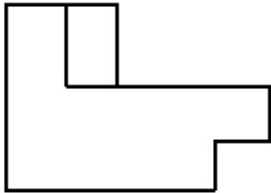


Options

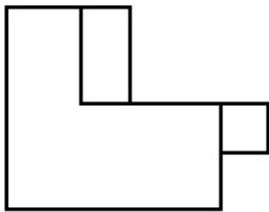
1.



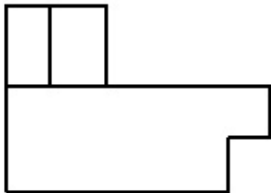
2.



3.



4.



Question Type : MCQ

Question ID : 70819113924

Option 1 ID : 70819146196

Option 2 ID : 70819146193

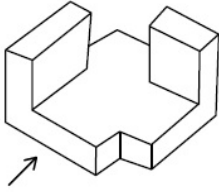
Option 3 ID : 70819146195

Option 4 ID : 70819146194

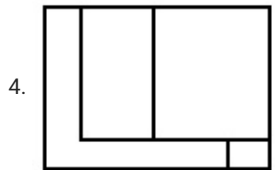
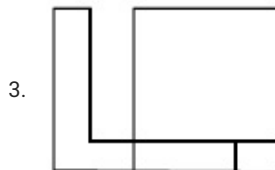
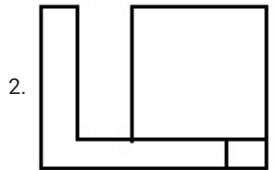
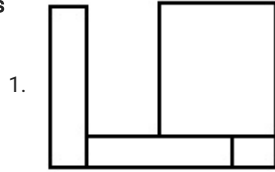
Status : Answered

Chosen Option : 2

Q.26 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options



Question Type : MCQ

Question ID : 70819113925

Option 1 ID : 70819146198

Option 2 ID : 70819146200

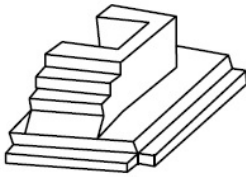
Option 3 ID : 70819146199

Option 4 ID : 70819146197

Status : Answered

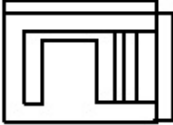
Chosen Option : 2

Q.27 The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

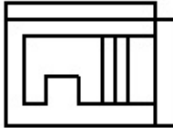


Options

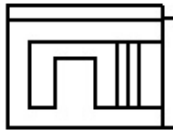
1.



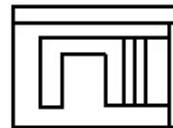
2.



3.



4.



Question Type : MCQ

Question ID : 70819113932

Option 1 ID : 70819146227

Option 2 ID : 70819146226

Option 3 ID : 70819146225

Option 4 ID : 70819146228

Status : Answered

Chosen Option : 3

Q.28 'Jharokha' is a type of window mostly found in :

Options 1. West Bengal

2. Gujarat

3. Rajasthan

4. Tamil Nadu

Question Type : MCQ

Question ID : 70819113893

Option 1 ID : 70819146070

Option 2 ID : 70819146069

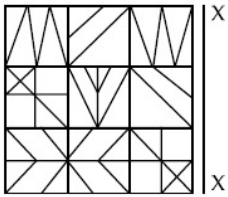
Option 3 ID : 70819146072

Option 4 ID : 70819146071

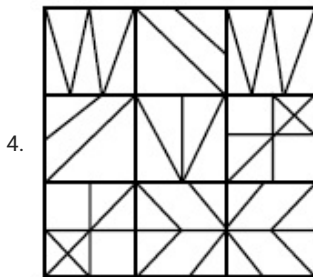
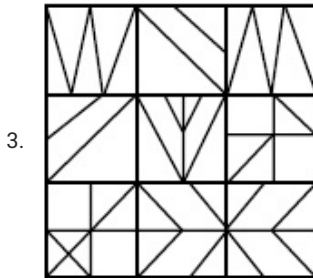
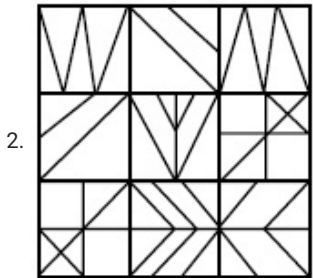
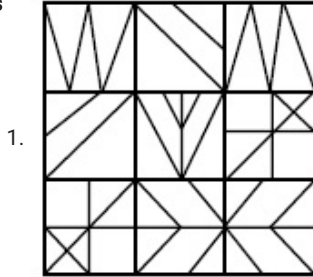
Status : Answered

Chosen Option : 1

Q.29 Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



Options



Question Type : **MCQ**

Question ID : **70819113917**

Option 1 ID : **70819146166**

Option 2 ID : **70819146168**

Option 3 ID : **70819146165**

Option 4 ID : **70819146167**

Status : **Not Answered**

Chosen Option : -

Q.30 The IIM - Ahmedabad is designed by which of the following Architect ?

- Options**
1. **Le Corbusier**
 2. **Lutyen**
 3. **Laurie Baker**
 4. **Louis Kahn**

Question Type : **MCQ**

Question ID : **70819113905**

Option 1 ID : **70819146120**

Option 2 ID : **70819146119**

Option 3 ID : **70819146117**

Option 4 ID : **70819146118**

Status : **Answered**

Chosen Option : **1**

Q.31 Match List - I with List - II.

List - I

(I) Hall of Nation

(II) Falling Water, Pennsylvania

(III) Petronas Tower

(IV) Secretariat

List - II



(a)

(b)

(c)

(d)

- Options
1. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)
 2. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)
 3. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)
 4. (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

Question Type : MCQ

Question ID : 70819113887

Option 1 ID : 70819146047

Option 2 ID : 70819146048

Option 3 ID : 70819146045

Option 4 ID : 70819146046

Status : Answered

Chosen Option : 3

Q.32 Word "Bungalow" has originated from :

- Options
1. Banaras
 2. Bari
 3. Bengalurm
 4. Bengal

Question Type : MCQ

Question ID : 70819113904

Option 1 ID : 70819146114

Option 2 ID : 70819146116

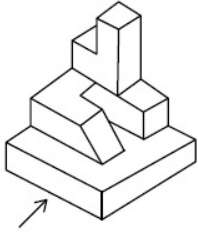
Option 3 ID : 70819146113

Option 4 ID : 70819146115

Status : Answered

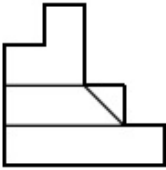
Chosen Option : 4

Q.33 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

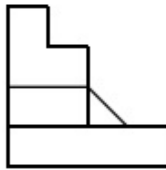


Options

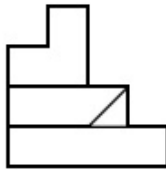
1.



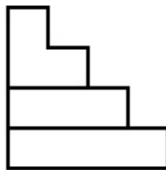
2.



3.



4.



Question Type : MCQ

Question ID : 70819113919

Option 1 ID : 70819146173

Option 2 ID : 70819146176

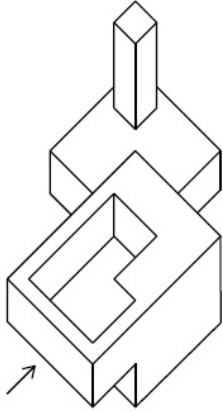
Option 3 ID : 70819146174

Option 4 ID : 70819146175

Status : Answered

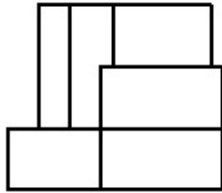
Chosen Option : 1

Q.34 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

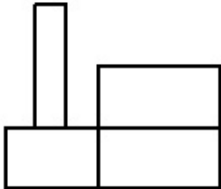


Options

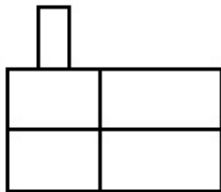
1.



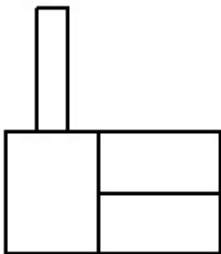
2.



3.



4.



Question Type : MCQ

Question ID : 70819113921

Option 1 ID : 70819146183

Option 2 ID : 70819146181

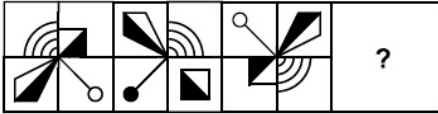
Option 3 ID : 70819146182

Option 4 ID : 70819146184

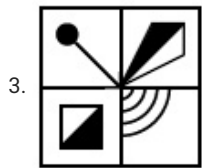
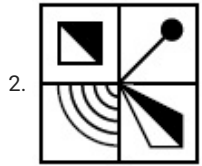
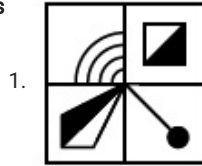
Status : Not Answered

Chosen Option : -

Q.35 Which one of the answer figures complete the sequence of the problem figure ? Select the correct one.



Options



Question Type : MCQ

Question ID : 70819113918

Option 1 ID : 70819146169

Option 2 ID : 70819146171

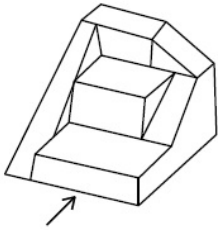
Option 3 ID : 70819146170

Option 4 ID : 70819146172

Status : Answered

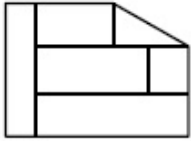
Chosen Option : 4

Q.36 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

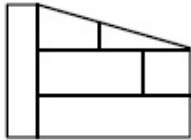


Options

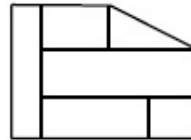
1.



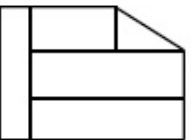
2.



3.



4.



Question Type : MCQ

Question ID : 70819113923

Option 1 ID : 70819146189

Option 2 ID : 70819146191

Option 3 ID : 70819146192

Option 4 ID : 70819146190

Status : Answered

Chosen Option : 1

Q.37 'Volume Zero' Documentary is on which Architect ?

Options 1. Jasbir Sachdev

2. Ranjit Sabliki

3. Charles Correa

4. Richard Mier

Question Type : MCQ

Question ID : 70819113899

Option 1 ID : 70819146095

Option 2 ID : 70819146096

Option 3 ID : 70819146093

Option 4 ID : 70819146094

Status : Answered

Chosen Option : 4

Q.38 Gold mines are situated in which state of India ?

- Options
1. Orissa
 2. Uttar Pradesh
 3. Maharashtra
 4. Karnataka

Question Type : MCQ
Question ID : 70819113901
Option 1 ID : 70819146102
Option 2 ID : 70819146104
Option 3 ID : 70819146103
Option 4 ID : 70819146101
Status : Answered
Chosen Option : 3

Q.39 Victory Tower belongs to which of the following fort :

- Options
1. Amer fort
 2. Bhangarh fort
 3. Chittor fort
 4. Jaigarh fort

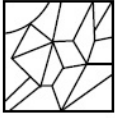
Question Type : MCQ
Question ID : 70819113897
Option 1 ID : 70819146088
Option 2 ID : 70819146087
Option 3 ID : 70819146085
Option 4 ID : 70819146086
Status : Not Answered
Chosen Option : -

Q.40 What is the size of A2 Drawing sheet ?

- Options
1. 297×420 (mm \times mm)
 2. 420×592 (mm \times mm)
 3. 420×590 (mm \times mm)
 4. 420×594 (mm \times mm)

Question Type : MCQ
Question ID : 70819113896
Option 1 ID : 70819146083
Option 2 ID : 70819146084
Option 3 ID : 70819146081
Option 4 ID : 70819146082
Status : Answered
Chosen Option : 2

Q.41 One of the following answer figures is hidden in the problem figure in same size and direction.
Select the correct one.



Options



Question Type : **MCQ**

Question ID : **70819113914**

Option 1 ID : **70819146155**

Option 2 ID : **70819146154**

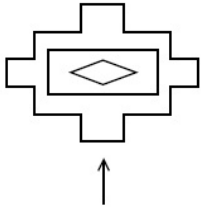
Option 3 ID : **70819146156**

Option 4 ID : **70819146153**

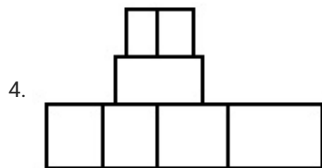
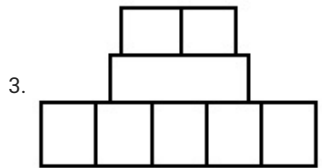
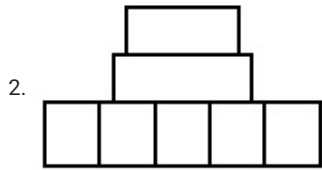
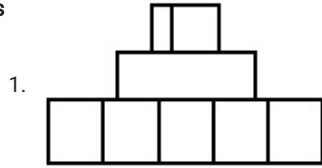
Status : **Answered**

Chosen Option : **3**

Q.42 The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



Options



Question Type : MCQ

Question ID : 70819113910

Option 1 ID : 70819146137

Option 2 ID : 70819146140

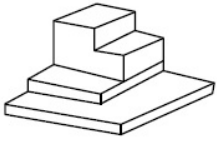
Option 3 ID : 70819146139

Option 4 ID : 70819146138

Status : Answered

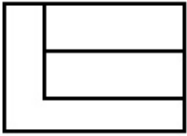
Chosen Option : 3

Q.43 The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.

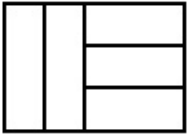


Options

1.



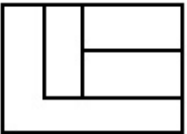
2.



3.



4.



Question Type : MCQ

Question ID : 70819113931

Option 1 ID : 70819146224

Option 2 ID : 70819146223

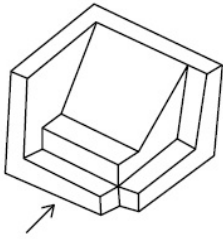
Option 3 ID : 70819146222

Option 4 ID : 70819146221

Status : Answered

Chosen Option : 4

Q.44 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options

1.



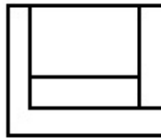
2.



3.



4.



Question Type : MCQ

Question ID : 70819113929

Option 1 ID : 70819146213

Option 2 ID : 70819146215

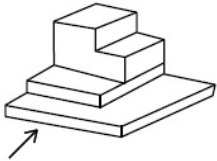
Option 3 ID : 70819146216

Option 4 ID : 70819146214

Status : Answered

Chosen Option : 1

Q.45 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.

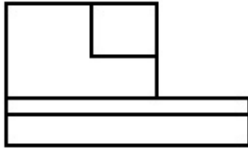


Options

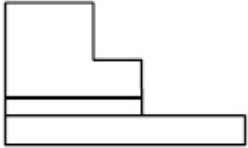
1.



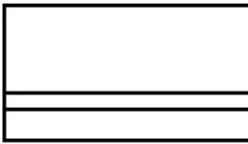
2.



3.



4.



Question Type : MCQ

Question ID : 70819113922

Option 1 ID : 70819146186

Option 2 ID : 70819146187

Option 3 ID : 70819146185

Option 4 ID : 70819146188

Status : Answered

Chosen Option : 3

Q.46 Match List - I with List - II.

List - I

List - II

(I) Agra fort

(a)



(II) Atala Masjid

(b)



(III) Nalanda University

(c)



(IV) Jagannatha Temple

(d)



- Options
1. (I)-(c), (II)-(a), (III)-(d), (IV)-(b)
 2. (I)-(b), (II)-(c), (III)-(a), (IV)-(d)
 3. (I)-(b), (II)-(a), (III)-(c), (IV)-(d)
 4. (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

Question Type : MCQ

Question ID : 70819113889

Option 1 ID : 70819146055

Option 2 ID : 70819146053

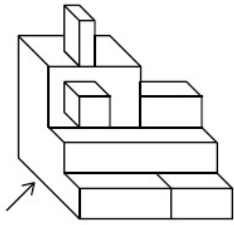
Option 3 ID : 70819146056

Option 4 ID : 70819146054

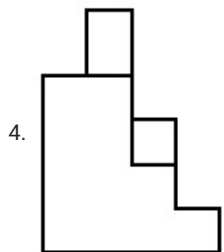
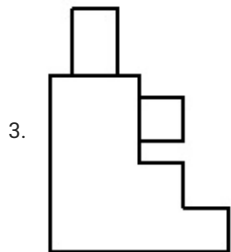
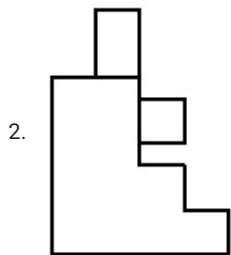
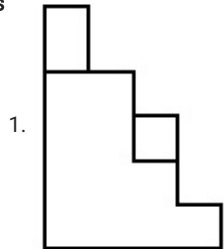
Status : Answered

Chosen Option : 4

Q.47 The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



Options



Question Type : MCQ

Question ID : 70819113920

Option 1 ID : 70819146178

Option 2 ID : 70819146177

Option 3 ID : 70819146179

Option 4 ID : 70819146180

Status : Answered

Chosen Option : 2

Q.48 Match List - I with List - II.

List - I	List - II
(I) Mehrangarh Fort	(a) Hyderabad
(II) Siri Fort	(b) Kolkata
(III) Golconda Fort	(c) Delhi
(IV) Fort William	(d) Jodhpur

Choose the correct answer from options given below :

- Options
1. (I)-(d), (II)-(c), (III)-(a), (IV)-(b)
 2. (I)-(a), (II)-(b), (III)-(d), (IV)-(c)
 3. (I)-(a), (II)-(d), (III)-(b), (IV)-(c)
 4. (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

Question Type : MCQ

Question ID : 70819113891

Option 1 ID : 70819146062

Option 2 ID : 70819146064

Option 3 ID : 70819146061

Option 4 ID : 70819146063

Status : Answered

Chosen Option : 3

Q.49 Match List - I with List - II.

List - I	List - II
(I) Kamru	(a) Victoria Memorial Hall
(II) Delhi	(b) Badrinath Temple
(III) Fatehpur Sikri	(c) Khirki Masjid
(IV) Kolkata	(d) Buland Darwaja

- Options
1. (I)-(c), (II)-(a), (III)-(b), (IV)-(d)
 2. (I)-(b), (II)-(a), (III)-(d), (IV)-(c)
 3. (I)-(b), (II)-(d), (III)-(c), (IV)-(a)
 4. (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

Question Type : MCQ

Question ID : 70819113888

Option 1 ID : 70819146051

Option 2 ID : 70819146052

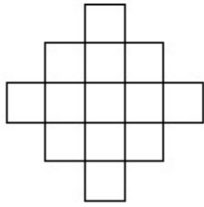
Option 3 ID : 70819146050

Option 4 ID : 70819146049

Status : Answered

Chosen Option : 4

Q.50 In the given figure, how many squares are present ?



- Options
1. 13
 2. 14
 3. 18
 4. 15

Question Type : MCQ
Question ID : 70819113906
Option 1 ID : 70819146122
Option 2 ID : 70819146121
Option 3 ID : 70819146124
Option 4 ID : 70819146123
Status : Answered
Chosen Option : 2

Section : Drawing

Q. 1 Draw a proportionate sketch of given reference image by using any black and white rendering techniques of your own choice.

OR

Decode image and prepare balanced composition in a frame of your choice by using any black and white rendering techniques.



Question Type : SUBJECTIVE
Question ID : 70819113936
Status : Answered

Q. 2 Draw a scene of a Kite festival by using colors.

OR

Draw a Harmonic three dimensional composition with the following two types of objects.

- (i) CUBOID A : SIZE $2\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 5 Nos.
 - (ii) CUBOID B : SIZE $5\text{ cm} \times 2\text{ cm} \times 2\text{ cm}$, 4 Nos.
- Use 'Cool Colorscheme' for composition.

Question Type : SUBJECTIVE
Question ID : 70819113937
Status : Answered