JEE MAIN

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QUESTION PAPER

2022

JOINT ENTRANCE EXAMINATION - MAIN

PREVIOUS YEAR QUESTION PAPER

Paper:	B. Arch
Set Name:	Item05
Exam Date:	30 July 2022
Exam Shift:	1
Langauge:	English

Topic:	Mathematics – Part I-Section A
Item No:	1
Question ID:	**101201**
Question Type:	MCQ
Question:	Let f and g be two twice differentiable functions in $(-2, 2)$ such that $f(-1) = f(1) = 0,\ f\left(\frac{1}{2}\right) = 1$, and $g\left(-\frac{3}{2}\right) = g\left(\frac{3}{2}\right) = g(0) = 0, g(1) = 1$ Then, the minimum number of roots of the equation $f(x)g''(x) + f''(x)g(x) + 2f'(x)g'(x) = 0$ in $(-2, 2)$ is :
A:	2
B:	4
C:	3
D:	5

Topic:	Mathematics – Part I-Section A
Item No:	2
Question ID:	**101202**
Question Type:	MCQ
Question:	Let $f : \mathbf{R} \to \mathbf{R}$ be a function defined as $f(x) = \alpha\lvert x\rvert + \lvert\beta x - \gamma\rvert$, where α, β, γ are distinct positive real numbers. Then, the maximum number of points at which $f(x)$ attains minima is equal to :
A:	1

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B:	4
C:	2
D:	3

Topic:	Mathematics – Part I-Section A
Item No:	3
Question ID:	**101203**
Question Type:	MCQ
Question:	Which of the following logical statements is a tautology ?
A:	$p \Rightarrow \sim q$
B:	$p \Rightarrow (\sim p) \vee q$
C:	$(p \wedge q) \Rightarrow ((\sim p) \vee q)$
D:	$(p \wedge (\sim q)) \Rightarrow ((\sim p) \vee q)$

Topic:	Mathematics – Part I-Section A
Item No:	4
Question ID:	**101204**
Question Type:	MCQ
Question:	The area of the region $S = \{(x, y) : 2x - x^2 \le y^2 \le 2x, x \le 2, x \le y\}$ is :
A:	$\frac{7}{4} - \frac{\pi}{4}$
B:	$\frac{2}{3}$
C:	$\frac{7}{6} - \frac{\pi}{4}$
D:	$\frac{5}{3}$

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Topic:	Mathematics – Part I-Section A
Item No:	5
Question ID:	**101205**
Question Type:	MCQ
Question:	The area bounded by the parabola $x^2 = 12y$ and the line L, where L passes through the focus S of the parabola and meets the parabola at A′ and A with the condition that no point B exists on the axis of the parabola such that ASB is a right angle triangle with right angle at A, is :
A:	$9\sqrt{3}$
B:	18
C:	27
D:	24

Topic:	Mathematics – Part I-Section A
Item No:	6
Question ID:	**101206**
Question Type:	MCQ
Question:	The area of the triangle whose two sides have the equations $2x - y = 1$ and $x - 2y = -1$ and whose centroid is (2, 2), is :
A:	$\frac{3}{2}$
B:	$\frac{5}{2}$
C:	3
D:	$\frac{7}{2}$

Topic:	Mathematics – Part I-Section A
Item No:	7
Question ID:	**101207**

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Question Type:	MCQ
Question:	The area of the region $A=\{(x, y) : x+2y\leq 4\leq (x-2)^2+(y-2)^2, x, y\geq 0\}$ is :
A:	$\frac{28}{5}-\pi-2\sin^{-1}\left(\frac{3}{5}\right)$
B:	$\frac{144}{25}-\pi-2\sin^{-1}\left(\frac{3}{5}\right)$
C:	$\frac{28}{5}-\pi+2\sin^{-1}\left(\frac{3}{5}\right)$
D:	$\frac{28}{5}-\frac{\pi}{2}-\sin^{-1}\left(\frac{3}{5}\right)$

Topic:	Mathematics – Part I-Section A
Item No:	8
Question ID:	**101208**
Question Type:	MCQ
Question:	Let the slope of the tangent to the curve $y=f(x)$ at any point $P(x, y)$, $x>-1$, be $\frac{\sqrt{x^2+9}-3x^2y}{1+x^3}$ If $f(0)=\frac{9}{2}\log_e 3-10$, then $f(4)$ equals :
A:	$\frac{9\log_e 3+10}{65}$
B:	$\frac{9\log_e 3+20}{65}$
C:	$\frac{9\log_e 3}{65}$

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D:	$\frac{9\log_e 3 - 10}{65}$

Topic:	Mathematics – Part I-Section A
Item No:	9
Question ID:	**101209**
Question Type:	MCQ
Question:	Let $\vec{a}$, $\vec{b}$ and $\vec{c}$ be non-coplanar vectors in space. Let the components of a vector $\vec{u}$ along $\vec{a}$, $\vec{b}$ and $\vec{c}$ be 4, -5 and 3 respectively. If the components of $\vec{u}$ along the vectors $-\vec{a}+\vec{b}+2\vec{c}$, $\vec{a}-\vec{b}-\vec{c}$ and $-\vec{a}-\vec{b}+\vec{c}$ are α, β, γ respectively, then the value of $\alpha+2\beta+2\gamma$ is :
A:	31
B:	35
C:	37
D:	61

Topic:	Mathematics – Part I-Section A
Item No:	10
Question ID:	**101210**
Question Type:	MCQ
Question:	If the mean of the distribution :

Class :	15 - 25	25 - 35	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85
Frequency :	2	4	7	α	8	4	2

is $\frac{201}{4}$, then its variance is equals to :

A:	$\frac{3319}{19}$

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B:	$\frac{3519}{29}$
C:	$\frac{3319}{16}$
D:	$\frac{3519}{16}$

Topic:	Mathematics – Part I-Section A
Item No:	11
Question ID:	**101211**
Question Type:	MCQ
Question:	The probability that a randomly chosen one-one function $f:\{1, 2, 3, 4, 5\} \to \{1, 2, 3, 4, 5, 6\}$ satisfies $f(1)+f(2)=f(3)$ is :
A:	$\frac{1}{12}$
B:	$\frac{1}{10}$
C:	$\frac{1}{6}$
D:	$\frac{1}{5}$

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Topic:	Mathematics – Part I-Section A
Item No:	12
Question ID:	**101212**
Question Type:	MCQ
Question:	Let 4, A_1, A_2, ..., A_n, 102 and 12, B_1, B_2, ..., B_n, 110 be two arithmetic progressions. If $A_r = B_s$ with $1 \le r - s \le 100$, then the number of possible values of n is :
A:	20

B:	25
C:	50
D:	75

Topic:	Mathematics – Part I-Section A
Item No:	13
Question ID:	**101213**
Question Type:	MCQ
Question:	The sum of all the coefficients in the expression $(1+x+x^2+\ldots+x^{49})+(1+x)(1+x+x^2+\ldots+x^{48})+(1+x+x^2)(1+x+x^2+\ldots+x^{47})+\ldots+(1+x+x^2+\ldots+x^{48})(1+x)+(1+x+x^2+\ldots+x^{49})$ is equal to :
A:	21675
B:	22525
C:	22100
D:	21660

Topic:	Mathematics – Part I-Section A
Item No:	14
Question ID:	**101214**
Question Type:	MCQ
Question:	The remainder when $(2023)^{2021}$ is divided by 12 is :
A:	1
B:	5
C:	7
D:	11

Topic:	Mathematics – Part I-Section A
Item No:	15
Question ID:	**101215**
Question Type:	MCQ

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Question:	The number of positive integers that are ≤ 1000 and divisible by 7 or 13, is :
A:	218
B:	208
C:	228
D:	192

Topic:	Mathematics – Part I-Section A
Item No:	16
Question ID:	**101216**
Question Type:	MCQ
Question:	Let A and B be $n \times n$ real matrices such that $A = A^T$ and $B = -B^T$. If $C = A^5B^2 - B^2A^5$ and $D = A^4B^3 - B^3A^4$, then :
A:	C is symmetric and D is skew-symmetric
B:	Both C and D are symmetric
C:	Both C and D are skew-symmetric
D:	C is skew-symmetric and D is symmetric

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Topic:	Mathematics – Part I-Section A
Item No:	17
Question ID:	**101217**
Question Type:	MCQ
Question:	The sum of the real and imaginary parts of all the complex numbers z satisfying $\bar{z} = i\left(\mathrm{Re}(z) + z^2\right)$ is equal to :
A:	0
B:	1
C:	-1

D:	$-\frac{\sqrt{3}}{2}$

Topic:	Mathematics – Part I-Section A
Item No:	18
Question ID:	**101218**
Question Type:	MCQ
Question:	Let a, b, c respectively be the sides of the triangle ABC opposite the angles A, B, C. If $\frac{\sin A}{\sin C} = \frac{\sin(A-B)}{\sin(B-C)}$, then the value of $\frac{1+\cos(A-B)\cos C}{1+\cos(A-C)\cos B} - \frac{a^2}{2b^2}$ is equal to :
A:	$\frac{1}{4}$
B:	$\frac{1}{2}$
C:	1
D:	2

Topic:	Mathematics – Part I-Section A
Item No:	19
Question ID:	**101219**
Question Type:	MCQ
Question:	If (a, b, c) is the ortho-centre of the triangle whose sides have the equations $\frac{x-2}{-3} = \frac{y-3}{-2} = \frac{z+2}{4}$, $\frac{x-2}{-1} = \frac{y-3}{-2} = \frac{z+2}{3}$ and $\frac{x}{1} = \frac{y-1}{0} = \frac{z-\frac{3}{2}}{-\frac{1}{2}}$, then $a-2b+2c$ is equal to _____.
A:	9
B:	11
C:	13
D:	15

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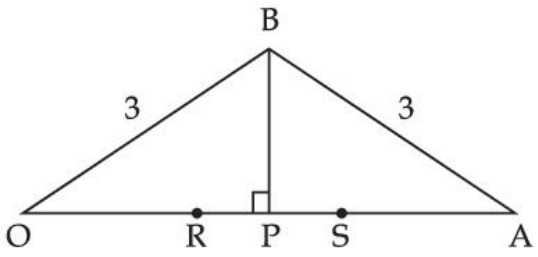
Topic:	Mathematics – Part I-Section A
Item No:	20
Question ID:	**101220**
Question Type:	MCQ
Question:	In the below diagram, let OB = OS = AB = AR = 3. If the area of the triangle OAB is 1 then the maximum value of $(OP)^2$ is : 
A:	$\frac{9+\sqrt{77}}{2}$
B:	$\frac{9-\sqrt{77}}{2}$
C:	$\frac{3+\sqrt{77}}{2}$
D:	$\frac{12-\sqrt{77}}{2}$

Topic:	Mathematics – Part I-Section B
Item No:	21
Question ID:	**101221**
Question Type:	Numeric Answer
Question:	The least value of $\alpha \in \mathbf{R}$ for which $$\lim_{x\to 0}\frac{(2^x-1)^2\tan^{\alpha}x}{(\sin^{-1}x)\log_e(1+x^6)}$$ exists and is finite, is equal to _____.

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Topic:	Mathematics – Part I-Section B
Item No:	22
Question ID:	**101222**
Question Type:	Numeric Answer
Question:	Let $\vec{a} = 2\hat{i} - \hat{j} + \hat{k}$ and $\vec{b} = \hat{i} + \hat{j} - \hat{k}$. Let a vector $\vec{c}$ be coplanar with the vectors $\vec{a}$ and $\vec{b}$. If $\lvert\vec{c}\rvert^2 = 66$ and $\vec{c} \cdot (\vec{a} + \vec{b}) = 12$, then the value of $\lvert\vec{b} \cdot \vec{c} - 4\rvert$ is equal to _____.

Topic:	Mathematics – Part I-Section B
Item No:	23
Question ID:	**101223**
Question Type:	Numeric Answer
Question:	Let P_1 and P_2 be the images of the point $P(-1, 1, 1)$ in the planes $-2x+y+z+1=0$ and $x-y-z+2=0$ respectively. If the length of the line segment joining P_1 and P_2 is α, then the value of $9\alpha^2$ is equal to _____.

Topic:	Mathematics – Part I-Section B
Item No:	24
Question ID:	**101224**
Question Type:	Numeric Answer
Question:	If the line segment joining the points A(a, 2) and B(2, 3) subtends an angle $\frac{\pi}{4}$ at the origin, then the maximum absolute value of a is equal to _____.

Topic:	Mathematics – Part I-Section B
Item No:	25
Question ID:	**101225**
Question Type:	Numeric Answer

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Question:	Let the slope of the tangent at (x, y) to a curve passing through the point $(2, 4)$ be $\frac{(x+y)^2}{(x+1)(y-1)}$. If the equation of the curve is $(x+1)^{\alpha}(x+2y-\beta) = \alpha^5 e^{\left(\frac{2y-\gamma x-4}{x+1}\right)}$, then the value of $\alpha+\beta+\gamma$ is equal to _____.

Topic:	Mathematics – Part I-Section B
Item No:	26
Question ID:	**101226**
Question Type:	Numeric Answer
Question:	Let $f(t) = \int_{-t}^{t} e^{x^2}\left((1+2x^2)\sin x + x\cos x\right) dx$. Then the value of $f\left(\frac{\pi}{2}\right) + f(\pi)$ is equal to _____.

Topic:	Mathematics – Part I-Section B
Item No:	27
Question ID:	**101227**
Question Type:	Numeric Answer
Question:	All possible 6-digit odd numbers formed with the digits 1, 1, 2, 3, 7, 8 are written in descending order. If 378121 is the Kth term of the sequence so formed, then K is equal to _____.

Topic:	Mathematics – Part I-Section B
Item No:	28
Question ID:	**101228**
Question Type:	Numeric Answer
Question:	Let $A = [a_{ij}]$ be 3×3 real matrix and $\text{Adj}(A) = [A_{ij}]$. If $a_{1j} + a_{2j} + a_{3j} = 1$, for $j = 1, 2, 3$ and $A_{11} = 2$, $A_{31} = 4$ and $\det(A) = 10$, then A_{21} equals _____.

Topic:	Mathematics – Part I-Section B
Item No:	29
Question ID:	**101229**

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Question Type:	Numeric Answer
Question:	The least value of a real number K for which the equation $4x^2-8(K-1)x+3K^2+10-9K=0$ has atleast one positive root is _____.

Topic:	Mathematics – Part I-Section B
Item No:	30
Question ID:	**101230**
Question Type:	Numeric Answer
Question:	The number of transitive relations from the set $\{x, y\}$ to $\{x, y\}$ is equal to _____.

Topic:	Aptitude Test – Part II
Item No:	31
Question ID:	**101231**
Question Type:	MCQ
Question:	A plan for selecting colours for composition is also known as _____.
A:	Colour spectrum
B:	Colour wheel
C:	Colour scheme
D:	Colour mix

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Topic:	Aptitude Test – Part II
Item No:	32
Question ID:	**101232**
Question Type:	MCQ
Question:	'Rowlatt Act' passed in which year ? (A) 1919 (B) 1920 (C) 1918 (D) 1921 Choose the **most appropriate** answer from the options given below :

A:	(A) only
B:	(A) and (B) only
C:	(B) only
D:	(B) and (C) only

Topic:	Aptitude Test – Part II
Item No:	33
Question ID:	**101233**
Question Type:	MCQ
Question:	The marble inlay work with precious and semi-precious stone in 'Taj Mahal' or elsewhere is popularly known as :
A:	Mondrian inlay work
B:	Kalamkari
C:	Pietra Dura/Parchinkari
D:	Zardosi

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Topic:	Aptitude Test – Part II
Item No:	34
Question ID:	**101234**
Question Type:	MCQ
Question:	'Shaking Minaret' situated in the city of _____.
A:	Hyderabad
B:	Lucknow
C:	Ahmedabad
D:	Aurangabad

Topic:	Aptitude Test – Part II
Item No:	35
Question ID:	**101235**

Question Type:	MCQ
Question:	Which of the following personalities is **not** an Architect ?
A:	Renzo Piano
B:	Richard Gere
C:	Charles Correa
D:	Richard Rogers

Topic:	Aptitude Test – Part II
Item No:	36
Question ID:	**101236**
Question Type:	MCQ
Question:	In which state 'Bihu' is most widely celebrated ?
A:	Rajasthan
B:	Uttar Pradesh
C:	Nagaland
D:	Assam

Topic:	Aptitude Test – Part II
Item No:	37
Question ID:	**101237**
Question Type:	MCQ
Question:	'NRCP' stands for _____.
A:	National River Concept Plan
B:	National River Conserve Plan
C:	National River & Conservation Plan
D:	National River Conservation Plan

Topic:	Aptitude Test – Part II
Item No:	38
Question ID:	**101238**

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Question Type:	MCQ
Question:	Vernacular Architecture mainly involves :
A:	Use of modern/contemporary materials
B:	Use of automation technology
C:	Use of composite & hightech materials
D:	Use of locally available material & traditional construction technology

Topic:	Aptitude Test – Part II
Item No:	39
Question ID:	**101239**
Question Type:	MCQ
Question:	A discomfort caused by light contrast is known as _____.
A:	Heat
B:	Glare
C:	Skin allergy
D:	Reflection of light

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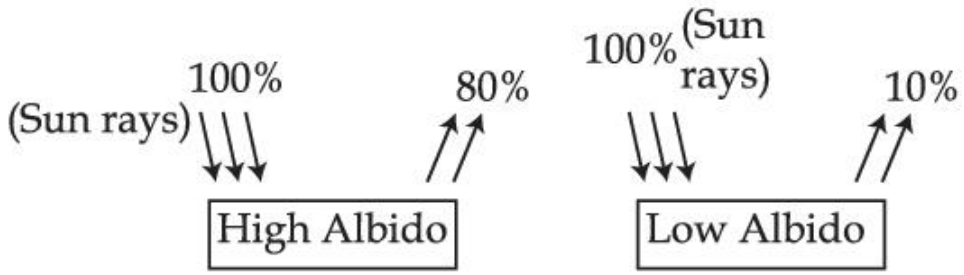
Topic:	Aptitude Test – Part II
Item No:	40
Question ID:	**101240**
Question Type:	MCQ
Question:	'Red Fort' of Agra was commissioned by whom ?
A:	Akbar
B:	Bahadur Shah Zafar
C:	Shahjahan
D:	Babar

Topic:	Aptitude Test – Part II
Item No:	41

Question ID:	**101241**
Question Type:	MCQ
Question:	The unit of measuring sound absorption in a room is :
A:	Sabin
B:	Phon
C:	Hertz
D:	Decibel

Topic:	Aptitude Test – Part II
Item No:	42
Question ID:	**101242**
Question Type:	MCQ
Question:	A land size of 60 meter × 30 meter for a house design is drawn on paper at scale of 1 : 100, then what size is drawn on paper to represent land ?
A:	6 meter × 3 meter
B:	60 cm × 30 cm
C:	6 cm × 3 cm
D:	3 m × 1.5 m

Topic:	Aptitude Test – Part II
Item No:	43
Question ID:	**101243**
Question Type:	MCQ
Question:	Albido refers to : 
A:	Thermal properties of external surface material

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B:	Sound absorption properties of material
C:	Roughness of surface
D:	Porous properties of surface/material

Topic:	Aptitude Test – Part II
Item No:	44
Question ID:	**101244**
Question Type:	MCQ
Question:	Match **List - I** with **List - II**. **List - I** / **List - II** (A) Solid lines — (I) Relatively long line segments separated by zigzag strokes (B) Dashed lines — (II) Delineate form of objects, edge of plane & intersection of planes (C) Grid lines — (III) Indicate hidden segments (D) Break lines — (IV) Rectangular or radial system of lines for regulating plan Choose the **correct** answer from the options given below :
A:	(A) - (IV), (B) - (I), (C) - (II), (D) - (III)
B:	(A) - (II), (B) - (I), (C) - (IV), (D) - (III)
C:	(A) - (II), (B) - (III), (C) - (IV), (D) - (I)
D:	(A) - (II), (B) - (I), (C) - (III), (D) - (IV)

Topic:	Aptitude Test – Part II
Item No:	45
Question ID:	**101245**
Question Type:	MCQ
Question:	Given below are two statements : **Statement I :** Modular Proportioning system was developed by German Architect Mics Van der Rohe. **Statement II :** It combines the aesthetic dimensions of Golden ratio & Fibonacci series. In the light of the above statements, choose the **most appropriate** answer from the options given below :

A:	Both **Statement I** and **Statement II** are correct
B:	Both **Statement I** and **Statement II** are incorrect
C:	**Statement I** is correct but **Statement II** is incorrect
D:	**Statement I** is incorrect but **Statement II** is correct

Topic:	Aptitude Test – Part II
Item No:	46
Question ID:	**101246**
Question Type:	MCQ
Question:	'My Architect' 'A son's journey' documentary is on which of the following Architect ?
A:	Louis Kahn
B:	Moshe Shafdi
C:	Zaha Hadid
D:	I.M. Pei

Topic:	Aptitude Test – Part II
Item No:	47
Question ID:	**101247**
Question Type:	MCQ
Question:	Which one of the following is **not** related to prestigious international awards in Architecture ?
A:	Royal Gold Medal (RIBA)
B:	Pritzker Prize
C:	Aga Khan Award
D:	META Award

Topic:	Aptitude Test – Part II
Item No:	48
Question ID:	**101248**
Question Type:	MCQ

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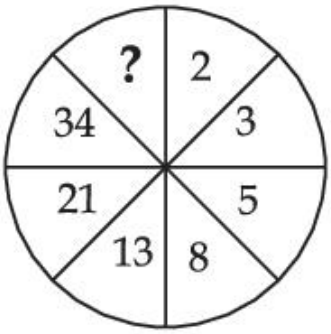
Question:	Identify the missing number in the given image : 
A:	83
B:	48
C:	55
D:	84

Topic:	Aptitude Test – Part II
Item No:	49
Question ID:	**101249**
Question Type:	MCQ
Question:	

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Match **List - I** with **List - II**.

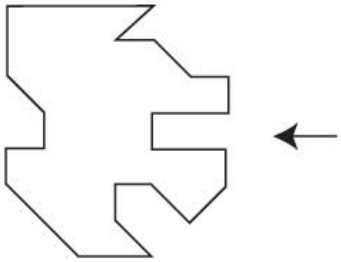
	List - I		**List - II**
(A)		(I)	The Shard, London by Renzo Piano
(B)		(II)	Infosys Building, Pune by Hafeez Contractor
(C)		(III)	Jubilee Church, Rome by Richard Mier
(D)		(IV)	LIC Building, New Delhi by Charles Correa

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

A:	(A) - (I), (B) - (III), (C) - (IV), (D) - (II)
B:	(A) - (IV), (B) - (II), (C) - (I), (D) - (III)
C:	(A) - (III), (B) - (I), (C) - (II), (D) - (IV)
D:	(A) - (III), (B) - (II), (C) - (I), (D) - (IV)

Topic:	Aptitude Test – Part II
Item No:	50
Question ID:	**101250**
Question Type:	MCQ
Question:	'Green is Red' book is written by which of the following Architect ?
A:	Revathi Kamath

B:	Anupama Kundu
C:	Anil Laul
D:	P.K. Das

Topic:	Aptitude Test – Part II
Item No:	51
Question ID:	**101251**
Question Type:	MCQ
Question:	Given figure shows plan of an object. Identify the correct option from answer figure which will perfectly fit on right hand side of the question figure ? 
A:	
B:	

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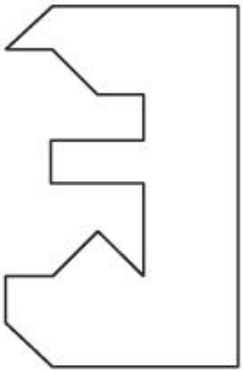
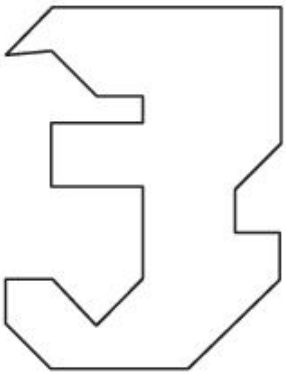
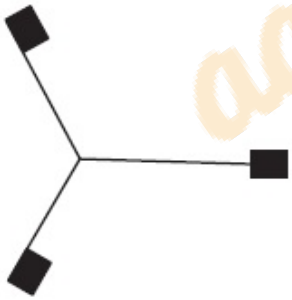
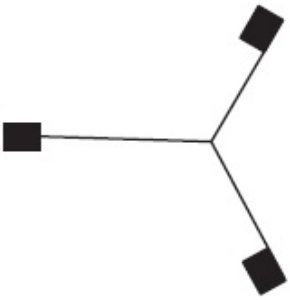
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	52
Question ID:	**101252**
Question Type:	MCQ
Question:	Find the odd figure in the problem figure given below.
A:	
B:	

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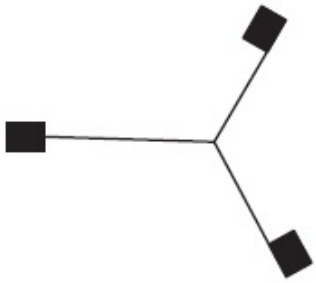
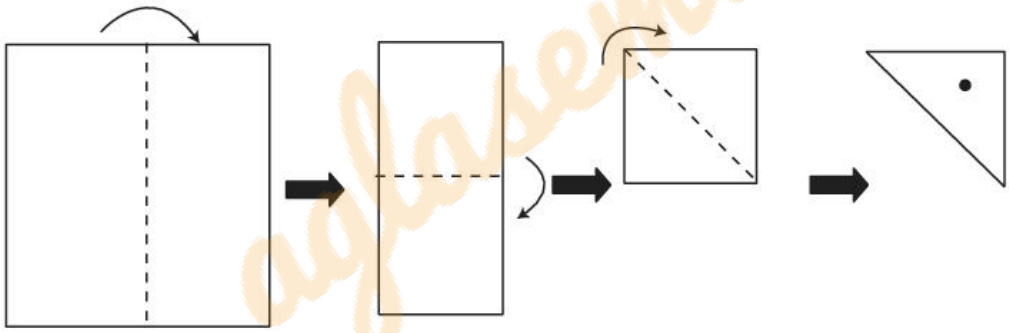
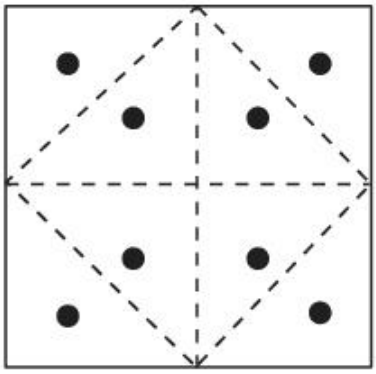
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	53
Question ID:	**101253**
Question Type:	MCQ
Question:	 A square paper is folded as shown in the figure (above). A circular hole is created in the triangular portion. Now paper is unfolded. What will be the right diagram ?
A:	

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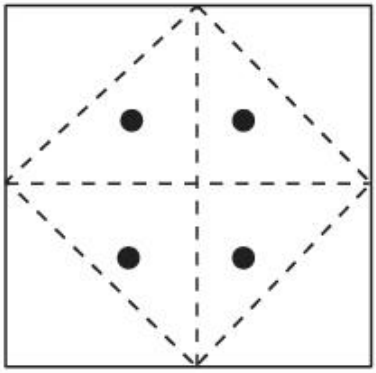
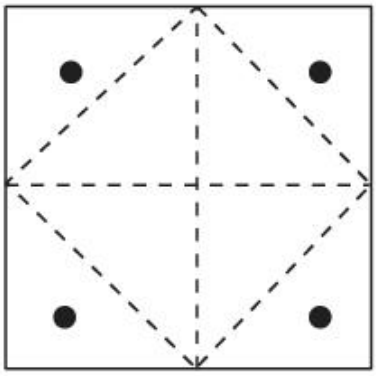
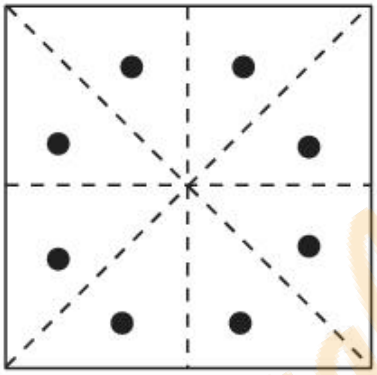
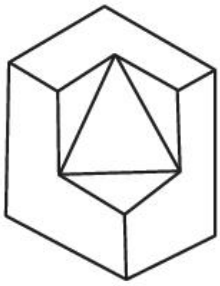
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	54
Question ID:	**101254**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify number of surfaces in given object. 

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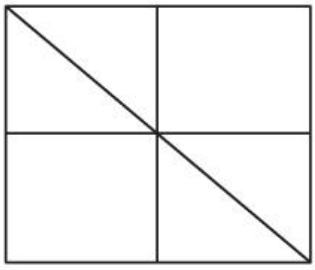
A:	11
B:	10
C:	9
D:	13

Topic:	Aptitude Test – Part II
Item No:	55
Question ID:	**101255**
Question Type:	MCQ
Question:	How many total number of triangles are hidden in the problem figure given below ? 
A:	16
B:	12
C:	06
D:	08

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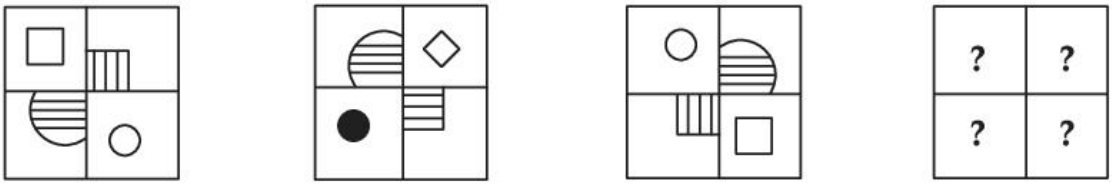
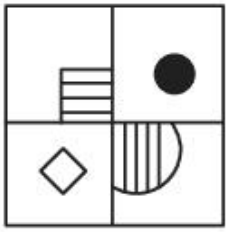
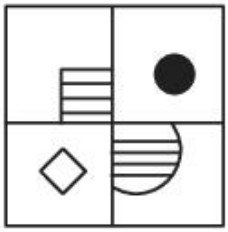
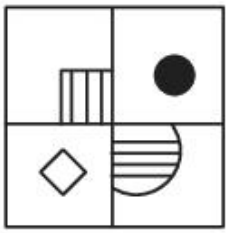
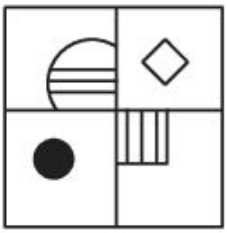
Topic:	Aptitude Test – Part II
Item No:	56
Question ID:	**101256**
Question Type:	MCQ
Question:	In a code language if 'PLEASE' is written as '573183' then 'LAPSE' will be written as _____.
A:	71853
B:	81573
C:	71583
D:	715831

Topic:	Aptitude Test – Part II
Item No:	57
Question ID:	**101257**
Question Type:	MCQ
Question:	Which one of the answer figures will complete the sequence of the three problem figures ? 
A:	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	58
Question ID:	**101258**

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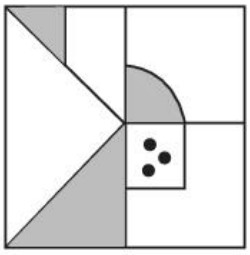
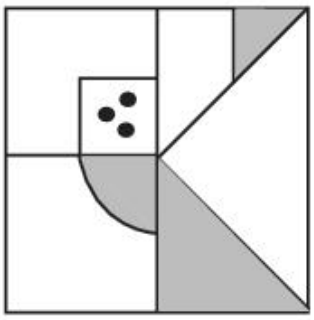
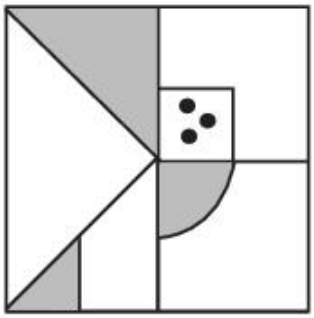
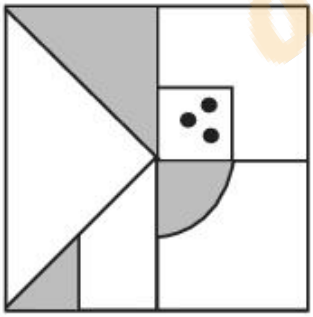
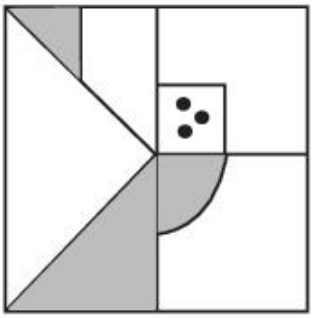
Question Type:	MCQ
Question:	Choose one out of four figures which shows the correct water image of the problem figure (X).  (X)
A:	
B:	
C:	
D:	

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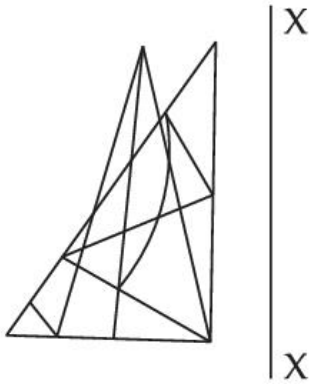
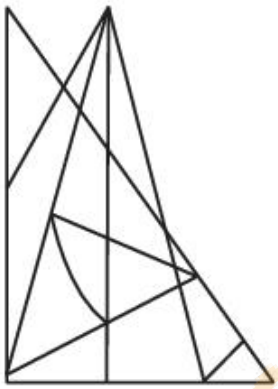
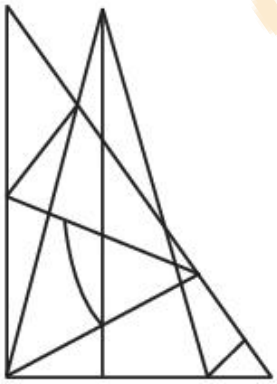
Topic:	Aptitude Test – Part II
Item No:	59
Question ID:	**101259**
Question Type:	MCQ
Question:	Which one of the answer figure is the correct mirror image of the problem figure with respect to X - X ? 
A:	
B:	

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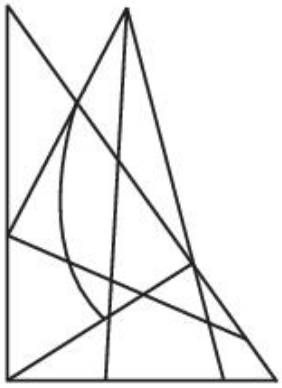
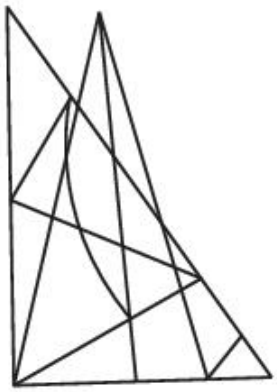
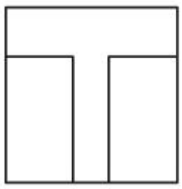
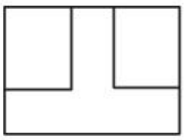
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	60
Question ID:	**101260**
Question Type:	MCQ
Question:	Question figure shows top view/plan, front elevation and right side elevation of the same object. Identify the most appropriate 3 D view of the problem figures from given answer figure.  TOP  FRONT RIGHT SIDE

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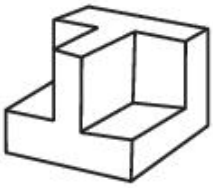
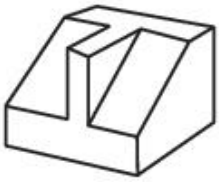
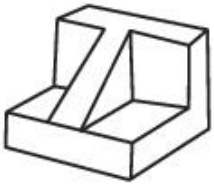
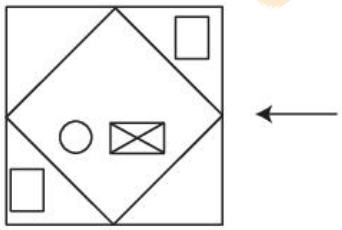
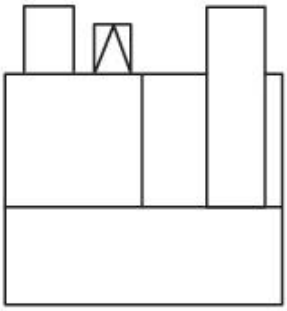
A:	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	61
Question ID:	**101261**
Question Type:	MCQ
Question:	Question figure shows top view/plan of an object. Looking in the direction of arrow, identify the correct elevation from given answer figures. 
A:	

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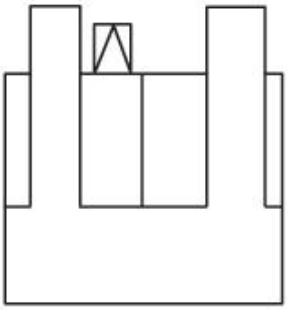
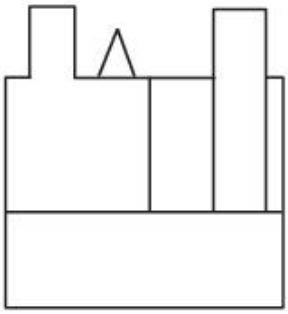
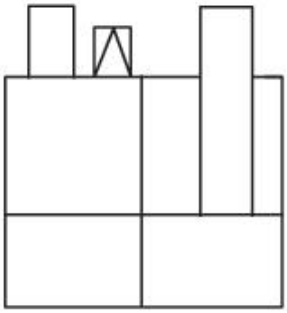
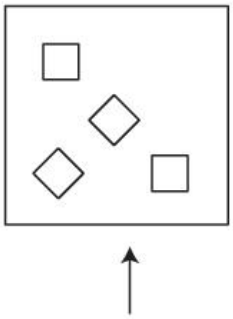
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	62
Question ID:	**101262**
Question Type:	MCQ
Question:	The problem figure shows top view/plan of an object. Looking in the direction of arrow identify the correct elevation from given answer figures. 

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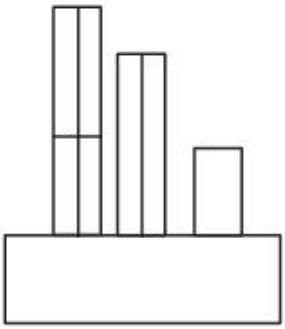
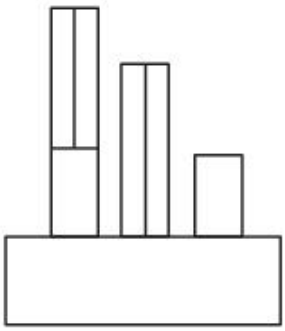
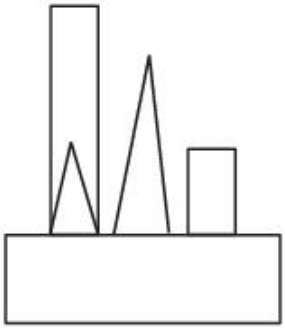
A:	
B:	
C:	
D:	

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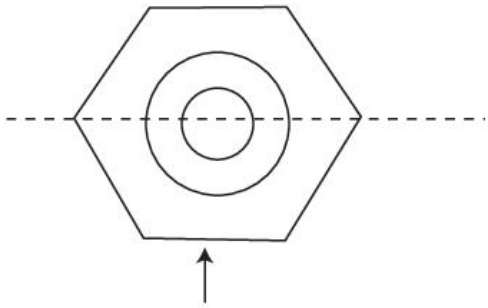
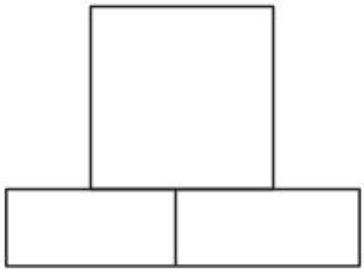
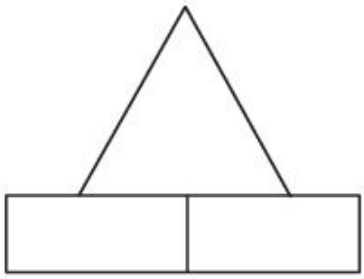
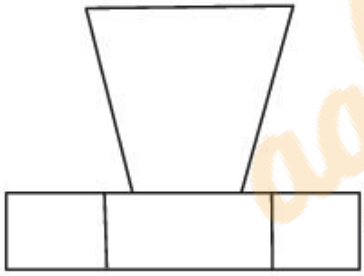
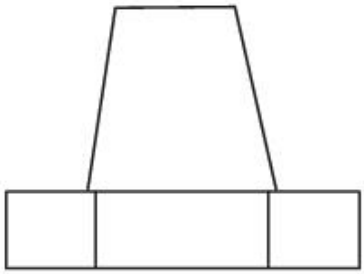
Topic:	Aptitude Test – Part II
Item No:	63
Question ID:	**101263**
Question Type:	MCQ

Question:	Question figure shows top view/plan of an object. Looking in the direction of arrow. Identify the correct elevation from given answer figure. 
A:	
B:	
C:	
D:	

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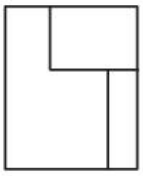
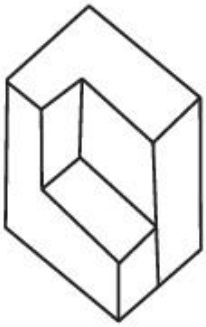
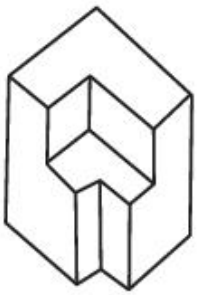
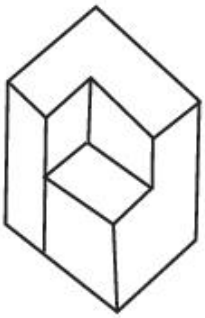
Topic:	Aptitude Test – Part II
Item No:	64
Question ID:	**101264**

Question Type:	MCQ
Question:	Question figure shows elevation of an object. Identify most appropriate 3 D view of the problem figure from given answer figures. 
A:	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	65

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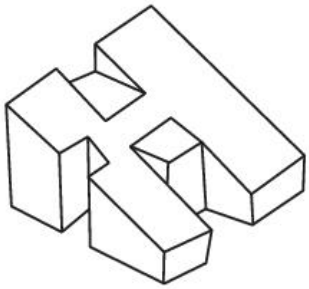
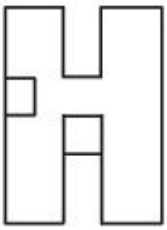
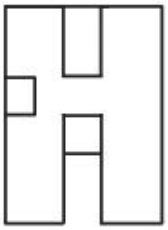
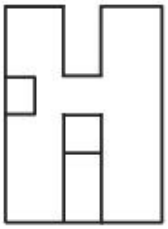
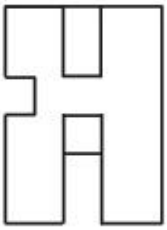
Question ID:	**101265**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify the most appropriate top view/ plan of given 3 D figure from answer figure. 
A:	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	66
Question ID:	**101266**
Question Type:	MCQ

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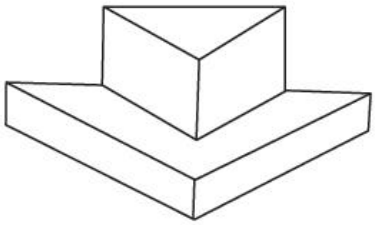
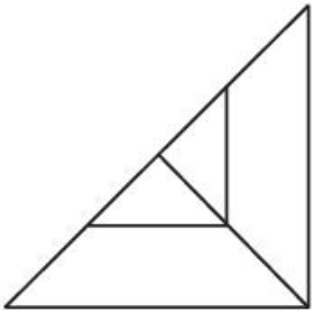
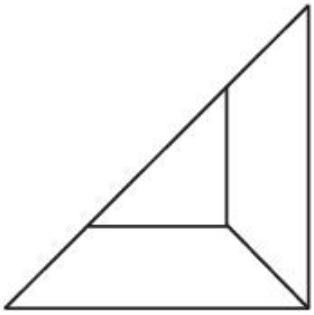
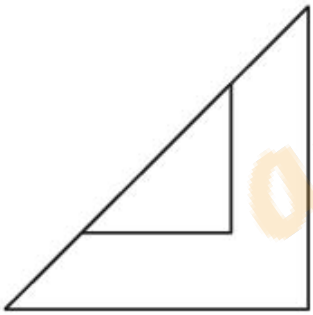
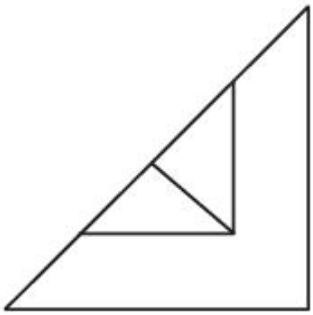
Question:	Question figure shows 3 D view of an object. Identify most appropriate top view/plan of the object from given answer figures. 
A:	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	67

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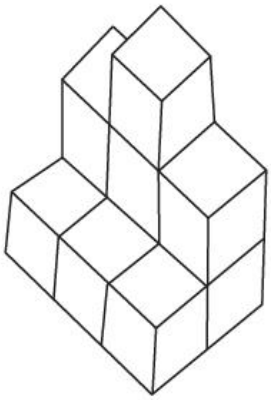
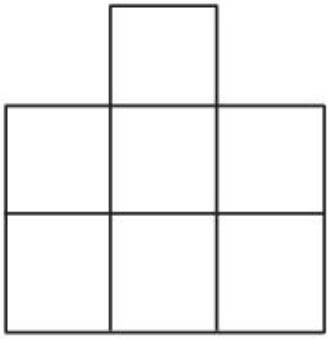
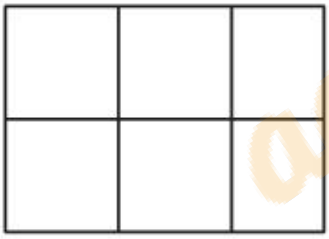
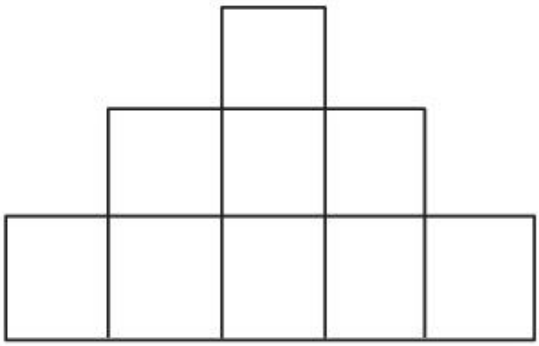
Question ID:	**101267**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify most appropriate top view/plan of the given object from given answer figures. 
A:	
B:	
C:	

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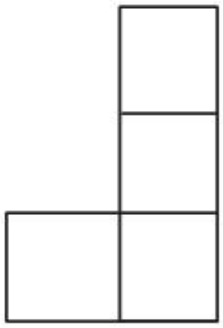
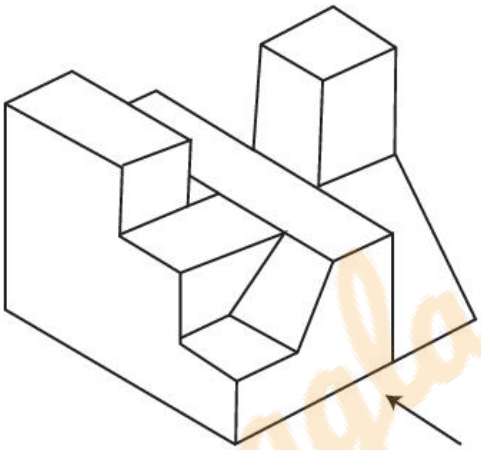
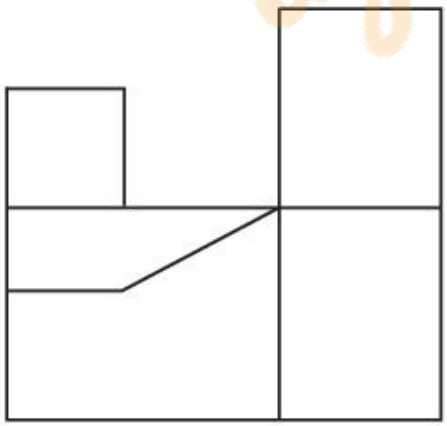
D:	

Topic:	Aptitude Test – Part II
Item No:	68
Question ID:	**101268**
Question Type:	MCQ
Question:	The question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object, looking in the direction of an arrow, from the given answer figures. 
A:	

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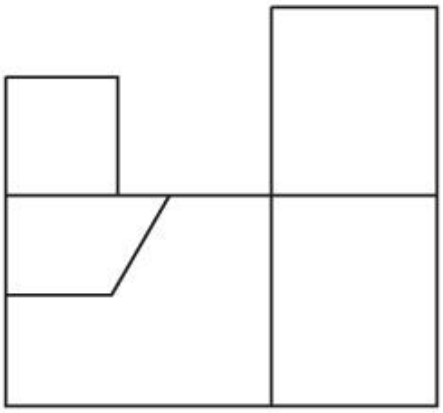
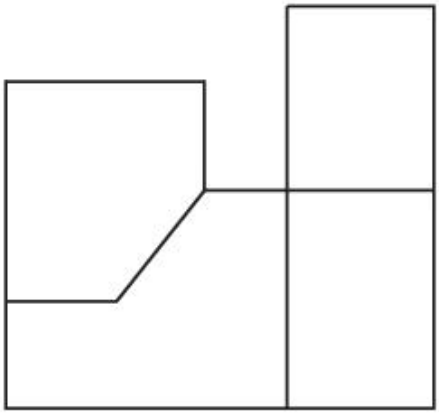
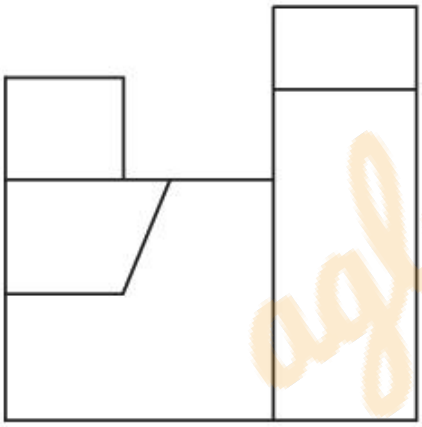
B:	
C:	
D:	

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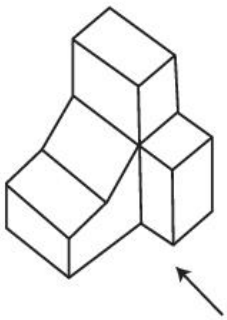
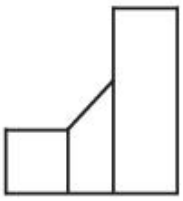
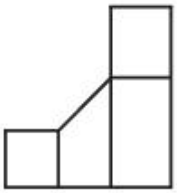
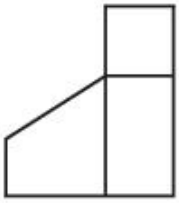
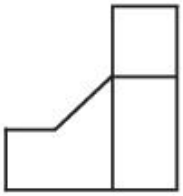
Topic:	Aptitude Test – Part II
Item No:	69
Question ID:	**101269**
Question Type:	MCQ

Question:	Question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object, looking in the direction of an arrow from the given answer figures. 
A:	
B:	
C:	
D:	

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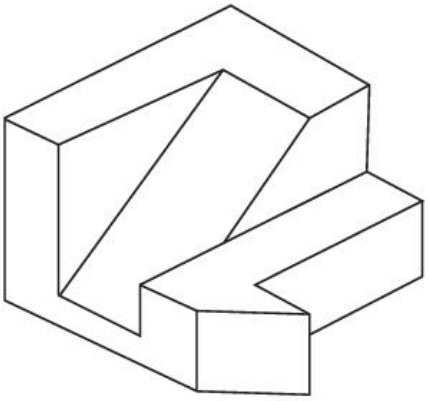
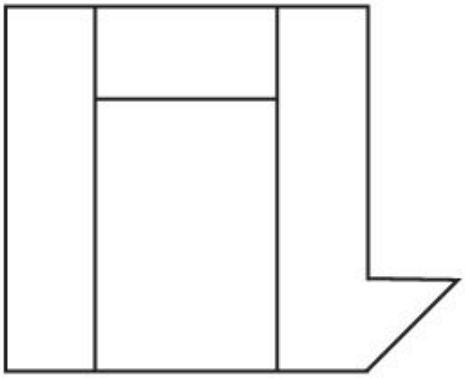
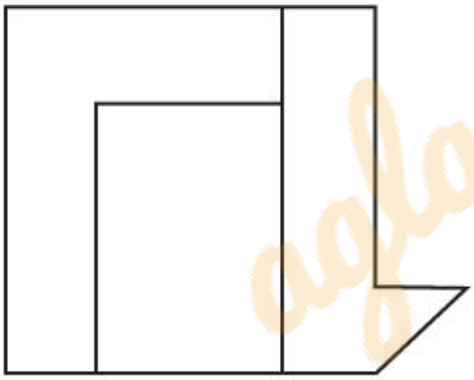
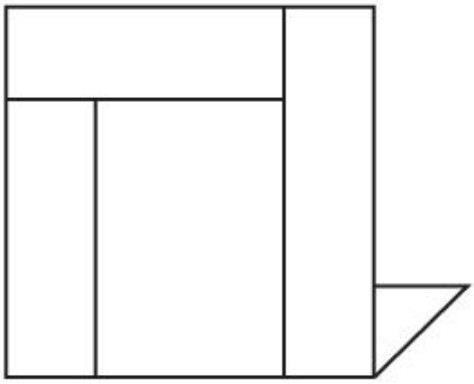
Topic:	Aptitude Test – Part II
Item No:	70
Question ID:	**101270**
Question Type:	MCQ

Question:	The question figure shows 3 D view of an object. Identify the most appropriate top view/ plan of given 3 D object from given answer figures. 
A:	
B:	
C:	

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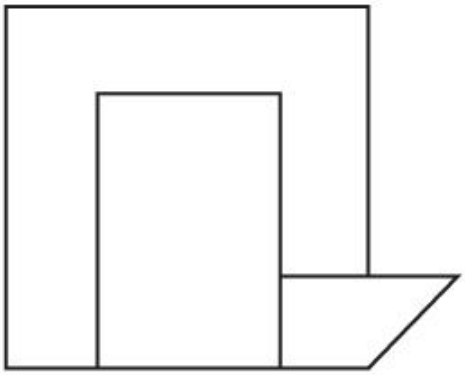
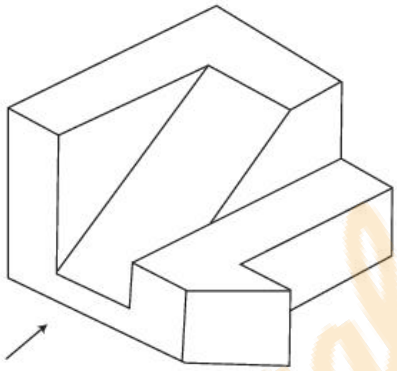
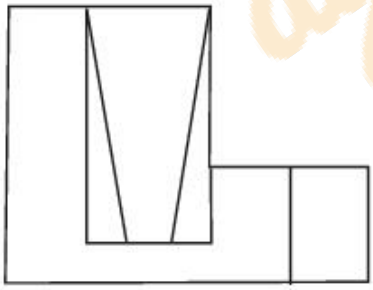
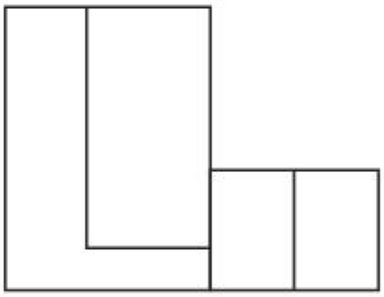
D:	

Topic:	Aptitude Test – Part II
Item No:	71
Question ID:	**101271**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object. Looking in the direction of an arrow, from the given answer figures. 
A:	
B:	

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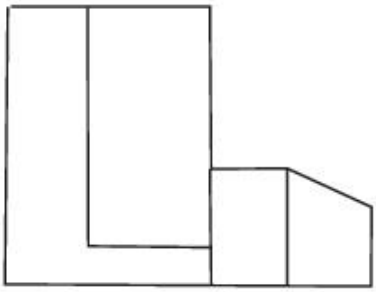
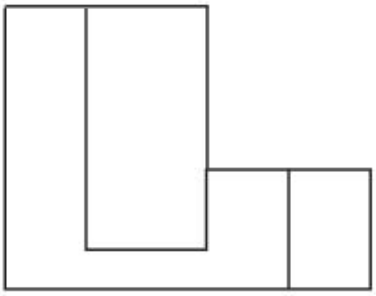
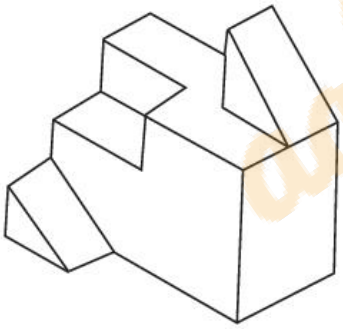
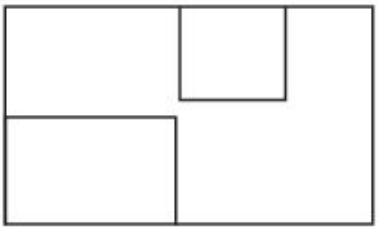
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	72
Question ID:	**101272**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify most appropriate top view/plan of the object from given answer figures. 
A:	

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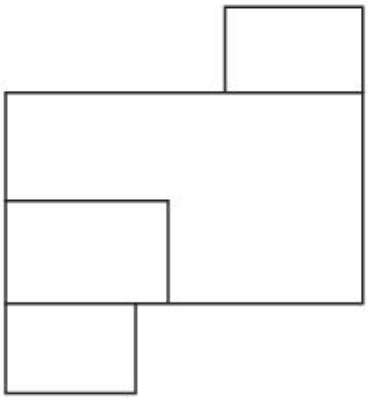
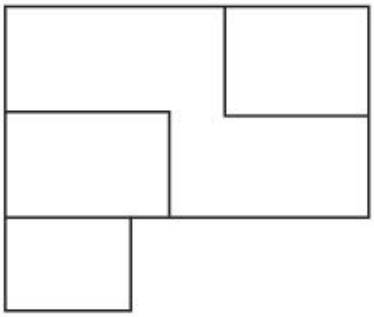
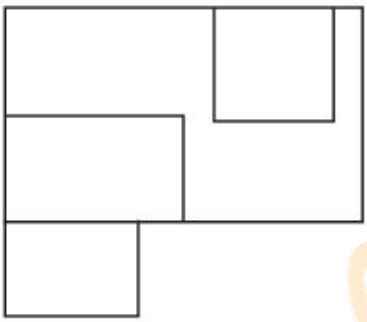
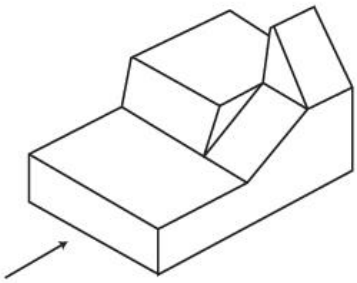
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	73
Question ID:	**101273**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object, looking in the direction of an arrow, from the given answer figures. 

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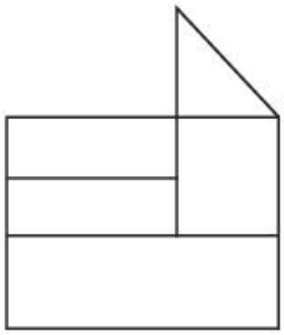
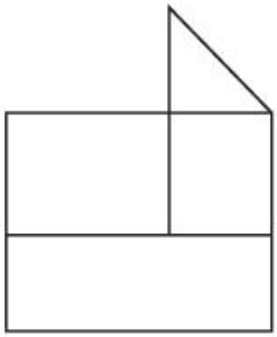
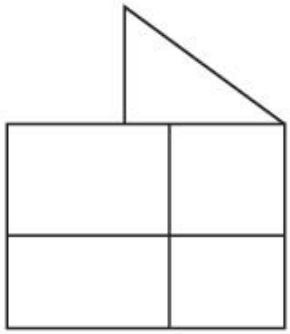
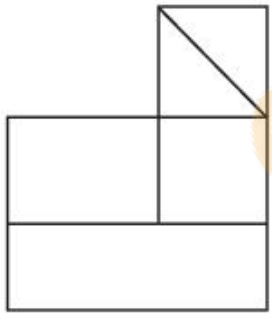
A:	
B:	
C:	
D:	

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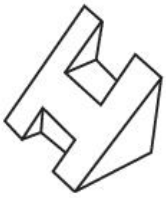
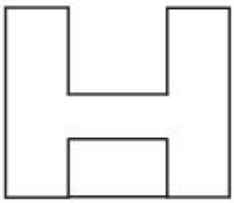
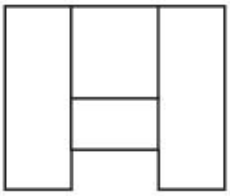
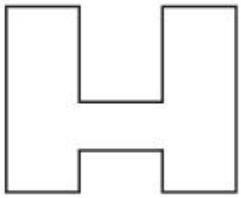
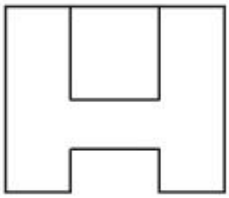
Topic:	Aptitude Test – Part II
Item No:	74
Question ID:	**101274**
Question Type:	MCQ

Question:	Question figure shows 3 D view of an object. Identify the most appropriate top view/ plan of the object from the given answer figures. 
A:	
B:	
C:	
D:	

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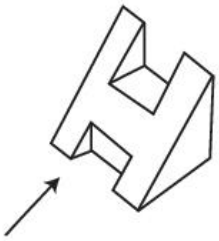
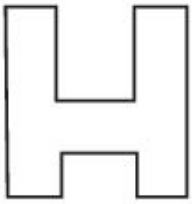
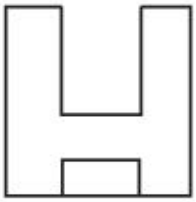
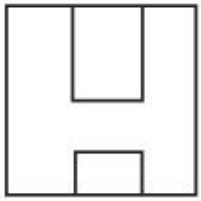
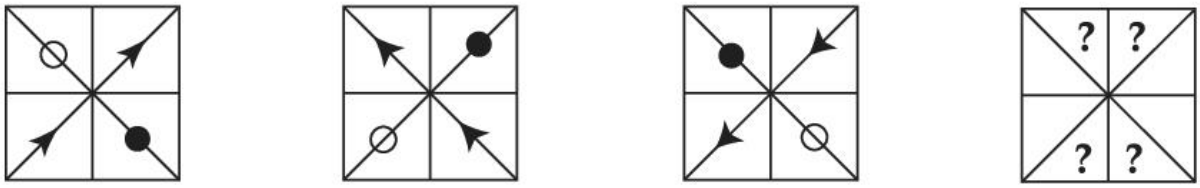
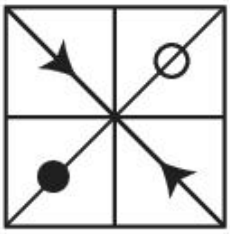
Topic:	Aptitude Test – Part II
Item No:	75
Question ID:	**101275**
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object, looking in the direction of an arrow from the given answer figures. 

A:	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	76
Question ID:	**101276**
Question Type:	MCQ
Question:	In the problem figure, 'A' & 'B' have certain relation. Identify which one of the answer figures will have similar relation between 'C' & 'D' ?  (A) (B) (C) (D)
A:	

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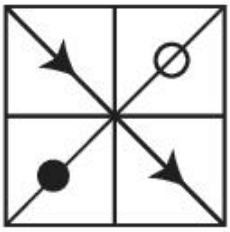
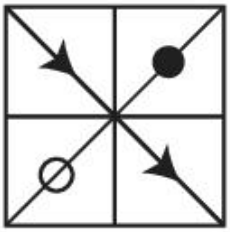
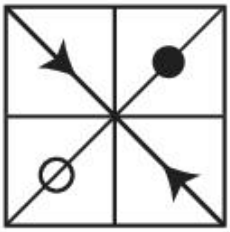
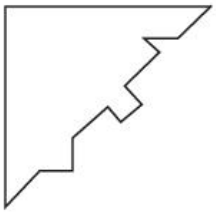
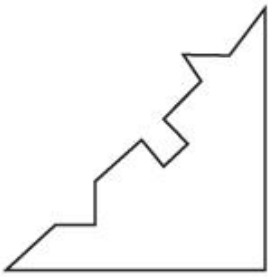
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	77
Question ID:	**101277**
Question Type:	MCQ
Question:	Which of the following answer figures will interlock diagonally into the question figure ? 
A:	

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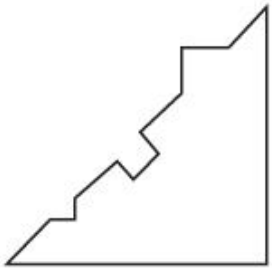
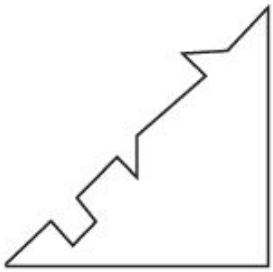
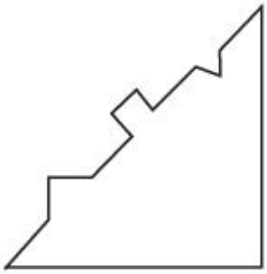
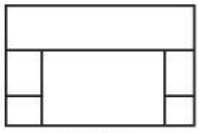
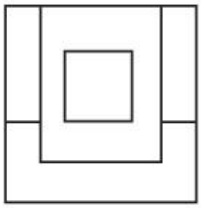
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	78
Question ID:	**101278**
Question Type:	MCQ
Question:	Question figure shows top view/plan, front elevation & right side elevation of the same object. Identify most appropriate 3 D view of the object from given answer figures.  TOP  FRONT RIGHT SIDE

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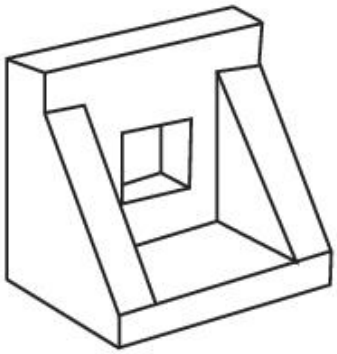
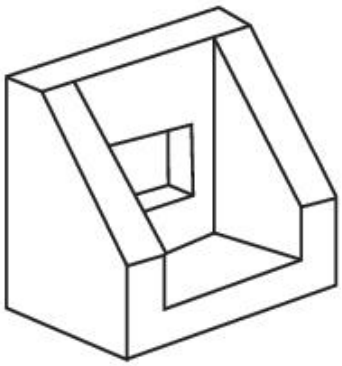
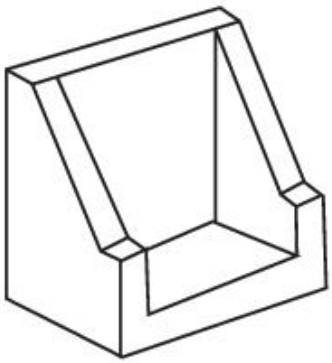
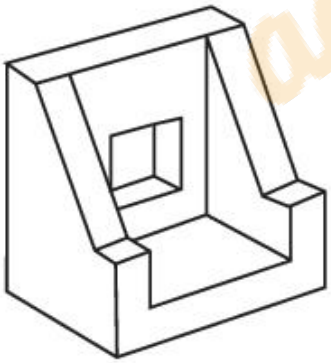
A:	
B:	
C:	
D:	

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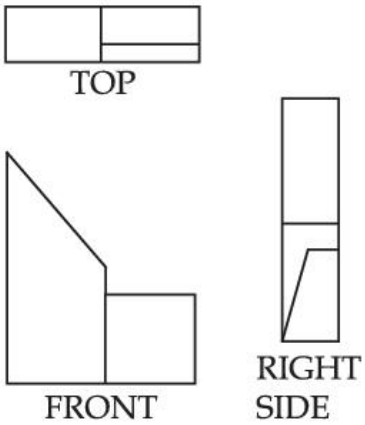
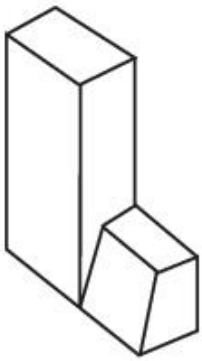
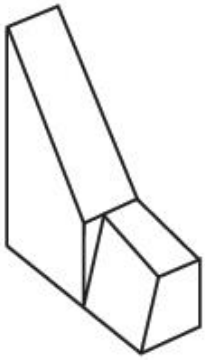
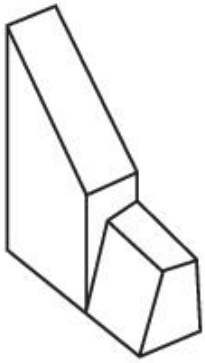
Topic:	Aptitude Test – Part II
Item No:	79
Question ID:	**101279**
Question Type:	MCQ

Question:	Question figure shows top view/plan, front elevation & right side elevation of the same object. Identify most appropriate 3 D view of the object from given answer figures. 
A:	
B:	
C:	

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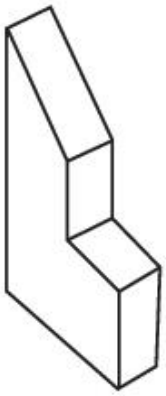
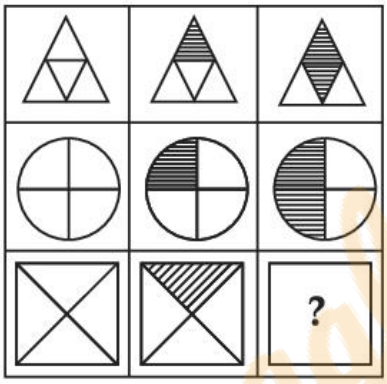
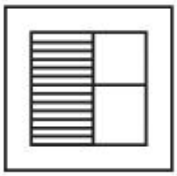
D:	

Topic:	Aptitude Test – Part II
Item No:	80
Question ID:	**101280**
Question Type:	MCQ
Question:	Find out which of the answer figure completes the figure matrix sequence from given answer figures. 
A:	
B:	
C:	

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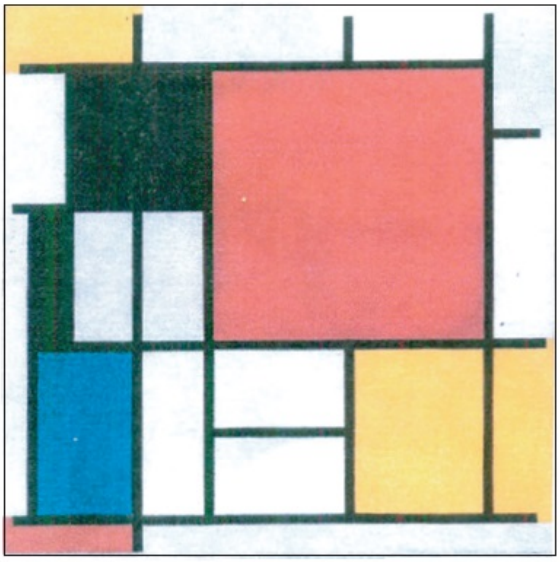
D:	

Topic:	Drawing Test – Part III
Item No:	81
Question ID:	**101281**
Question Type:	Drawing Question
Question:	(A) Draw a proportionate sketch of given Reference Image. Use black and white Pencil rendering technique for shading. **OR** (B) Decode the given reference image and create balance composition. Use black and white rendering technique.

Topic:	Drawing Test – Part III
Item No:	82
Question ID:	**101282**
Question Type:	Drawing Question

Question:	(A) Draw a picture of a food street of any Town you have visited. Use colours of your choice to Render the view. **OR** (B) Given image shows painting by an Artist. Consider it as a plan of an object. Keeping same proportion of the rectangles shown in the image, give them height and develop interesting 3D composition. Use warm colour scheme to render the composition. 

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