Paper:	B. Planning	
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 $f(-1) = f(1) = 0, \ f\left(\frac{1}{2}\right) = 1, \ \text{and}$ $g\left(-\frac{3}{2}\right) = g\left(\frac{3}{2}\right) = g(0) = 0, \ g(1) = 1$ Then, the minimum number of roots of the equation $f(x)g''(x) + f''(x)g(x) + 2f'(x)g'(x) = 0 \text{ in } (-2,2) \text{ is } :$		
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 x + \beta x - \gamma $, 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	

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:	$p \Rightarrow (\sim p) \lor q$	
C:	$(p \land q) \Rightarrow ((\sim p) \lor q)$	
D:	$(p \land (\sim q)) \Rightarrow ((\sim p) \lor q)$	

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

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	

Question Type:	MCQ	
Question:	The area of the region $A = \{(x, y) : x + 2y \le 4 \le (x - 2)^2 + (y - 2)^2, x, y \ge 0\}$ 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:	$\frac{9\log_{\mathrm{e}} 3 + 10}{65}$		
B:	$\frac{9\log_e 3 + 20}{65}$		
C:	9log _e 3 65		

D:	$\frac{9\log_{e} 3 - 10}{65}$		
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Topic:	Mathematics – Part I-Section A
Item No:	9
Question ID:	101209
Question Type:	MCQ
Question:	Let \overrightarrow{a} , \overrightarrow{b} and \overrightarrow{c} be non-coplanar vectors in space. Let the components of a vector \overrightarrow{u} along \overrightarrow{a} , \overrightarrow{b} and \overrightarrow{c} be 4, -5 and 3 respectively. If the components of \overrightarrow{u} along the vectors \overrightarrow{a} , \overrightarrow{b} and \overrightarrow{c} be \overrightarrow{a} , \overrightarrow{b} , \overrightarrow{c} and \overrightarrow{c} and \overrightarrow{c} and \overrightarrow{c} and \overrightarrow{c} are \overrightarrow{a} , \overrightarrow{b} , \overrightarrow{c} respectively, then the value of \overrightarrow{a} and \overrightarrow{c} is:
A:	31
B:	35
C:	37
D:	61

Topic:	Mathematics – Part I-Section A							
Item No:	10							
Question ID:	101210	101210						
Question Type:	MCQ							
	If the mean of	f the distr	ribution:	201				
	Class:	15 - 25	25 - 35	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85
Question:	Frequency:	2	4	7	α	8	4	2
	is $\frac{201}{4}$, then its variance is equals to :							
A:	3319 19							

B:	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 $f: \{1, 2, 3, 4, 5\} \rightarrow \{1, 2, 3, 4, 5, 6\}$ satisfies $f(1) + f(2) = f(3)$ is :
A:	$\frac{1}{12}$
B:	$\frac{1}{10}$
C:	$\frac{1}{6}$
D:	$\frac{1}{5}$

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 $(1+x+x^2++x^{49})+(1+x)(1+x+x^2++x^{48})+(1+x+x^2)(1+x+x^2++x^{47})++\\ (1+x+x^2++x^{48})(1+x)+(1+x+x^2++x^{49}) \text{ is equal to :}$
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

Question:	The number of positive integers that are \leq 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

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
A:	0
B:	1
C:	-1

D:	$-\frac{\sqrt{3}}{2}$		
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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 $\frac{x-2}{-3} = \frac{y-3}{-2} = \frac{z+2}{4}, \frac{x-2}{-1} = \frac{y-3}{-2} = \frac{z+2}{3} \text{ and } \frac{x}{1} = \frac{y-1}{0} = \frac{z-\frac{3}{2}}{-\frac{1}{2}}, \text{ then } a-2b+2c$ is equal to
A:	9
B:	11
C:	13
D:	15

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

Topic:	Mathematics – Part I-Section B
Item No:	22
Question ID:	101222
Question Type:	Numeric Answer
Quartien	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}
Question:	and \overrightarrow{b} . If $ \overrightarrow{c} ^2 = 66$ and $\overrightarrow{c} \cdot (\overrightarrow{a} + \overrightarrow{b}) = 12$, then the value of $ \overrightarrow{b} \cdot \overrightarrow{c} - 4 $ 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

	Let the slope of the tangent at (x, y) to a curve passing through the point $(2, 4)$ be $\frac{(x + y)^2}{(x + 1)(y - 1)}$.
Question:	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 K th 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 $Adj(A) = [A_{ij}]$. If $a_{1j} + a_{2j} + a_{3j} = 1$, for $j = 1, 2, 3$ and $A_{11} = 2$, $A_{31} = 4$ and $A_{21} = 10$, then $A_{21} = 10$ equals

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

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 at least 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

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

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		

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

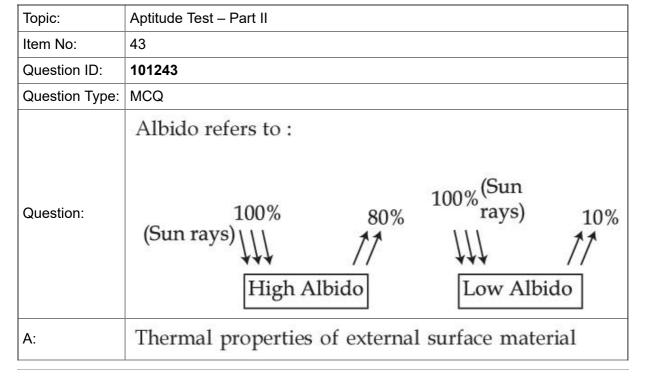
Topic:	Aptitude Test – Part II		
Item No:	39		
Question ID:	101239		
Question Type:	MCQ		
Question:	A discomfort caused by light contrast is known as		
A:	Heat		
B:	Glare		
C:	Skin allergy		
D:	Reflection of light		

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 \times 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:	$3 \text{ m} \times 1.5 \text{ m}$		



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				
	Mato	ch List - I with List - Il			
		List - I		List - II	
	(A)	Solid lines	(I)	Relatively long line segments separated by zigzag strokes	
Question:	(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			
	Given below are two statements:			
Question:	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

Question:	Identify the missing number in the given image: 2 34 21 5 13 8
A:	83
B:	48
C:	55
D:	84

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

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

(A) List - II

(B) List - II

(II) The Shard, London by Renzo Piano

(III) Infosys Building, Pune by Hafeez Contractor

(IIII) Jubilee Church, Rome by Richard Mier

(IV) LIC Building, New Delhi by Charles Correa

Choose the correct answer from the options given below:

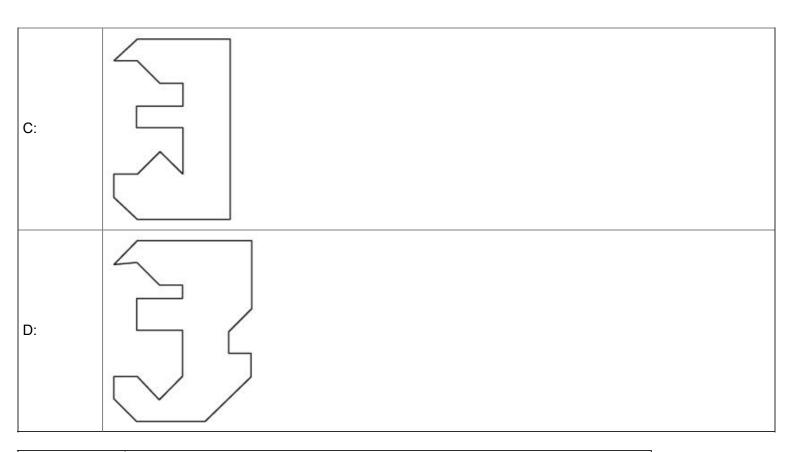
(D)

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)

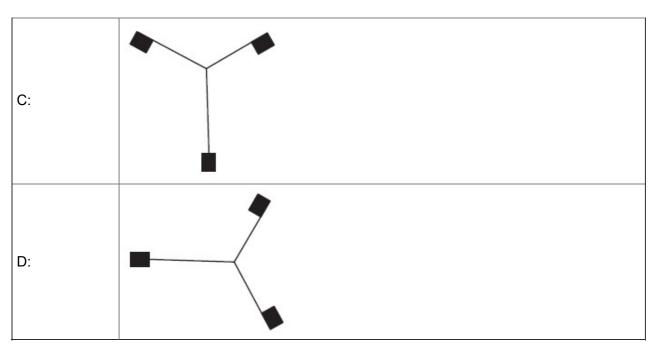
Topic:	Aptitude Test – Part II
Item No:	50
Question ID:	101250
Question Type:	MCQ
Question:	'Green is Red' book is written by which of the following Architect?
A:	Revathi Kamath

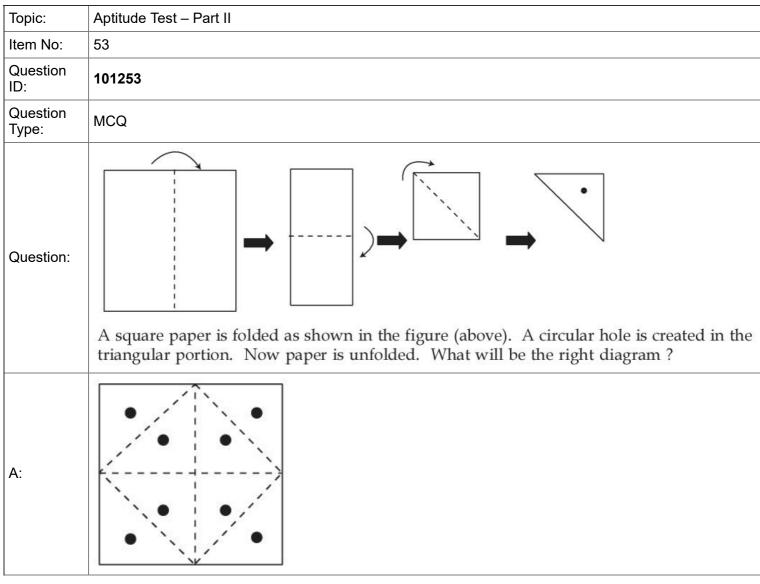
B:	Anupama Kundu
C:	Anil Laul
D:	P.K. Das

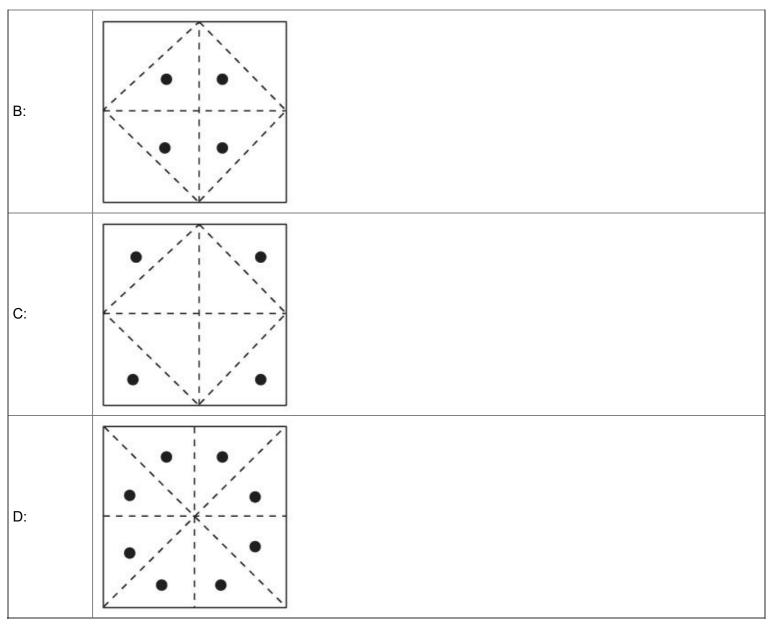
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Topic:	Aptitude Test – Part II
Item No:	51
Question ID:	101251
Question Type:	MCQ
Question:	Given figure shows plan of an object. Identify the correct option from answer figure which will perfectly fit on right hand side of the question figure ?
A: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



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:	







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.

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

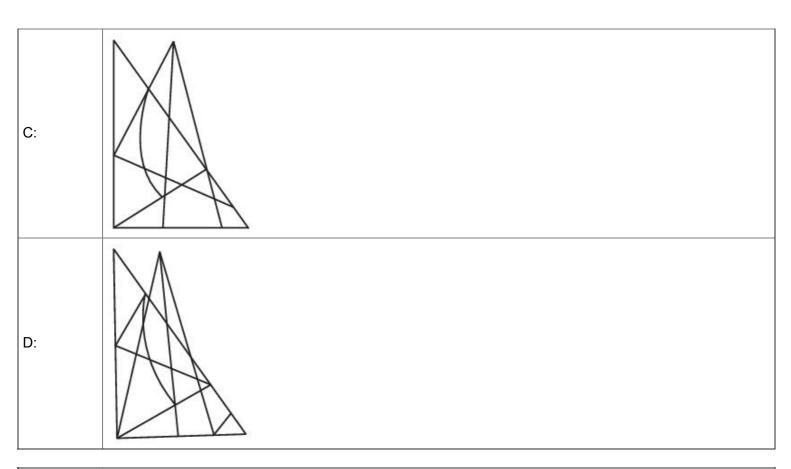
Topic:	Aptitude Test – Part II
Item No:	56
Question ID:	101256
Question Type:	MCQ
Question:	In a code language if 'PLEASE' is written as '573183' then 'LAPSE' will be written as
A:	71853
B:	81573
C:	71583
D:	715831

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:	

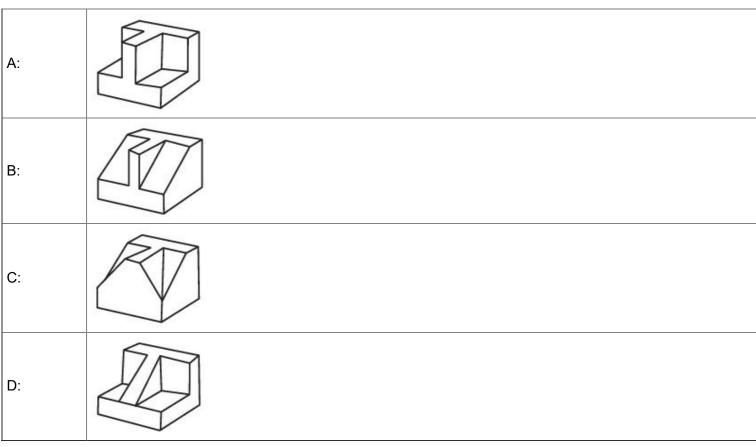
Topic:	Aptitude Test – Part II
Item No:	58
Question ID:	101258

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:	

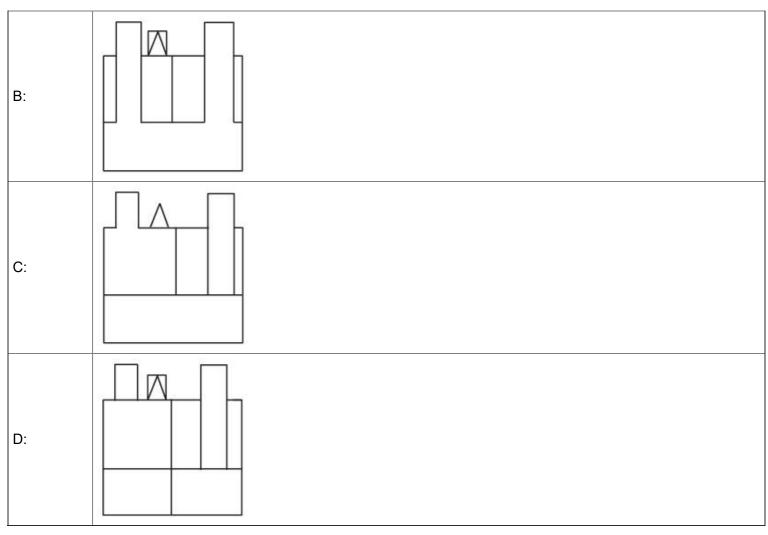
Topic:	Aptitude Test – Part II
Item No:	59
Question ID:	101259
Question Type:	MCQ
Question:	Which one of the answer figure is the correct mirror image of the problem figure with respect to X - X?
A :	
B:	



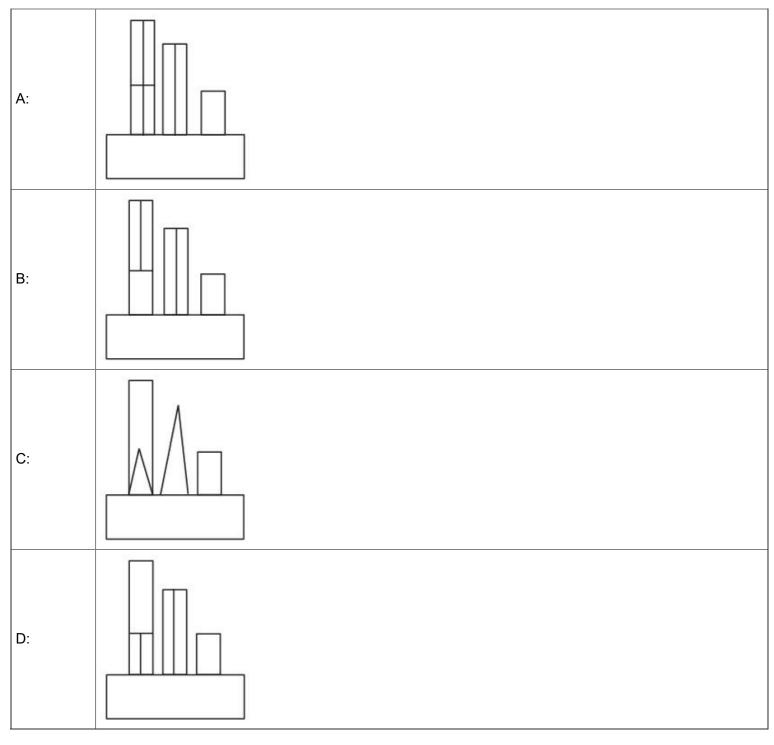
Topic:	Aptitude Test – Part II
Item No:	60
Question ID:	101260
Question Type:	MCQ
Question:	Question figure shows top view/plan, front elevation and right side elevation of the same object. Identify the most appropriate 3 D view of the problem figures from given answer figure. TOP RIGHT SIDE



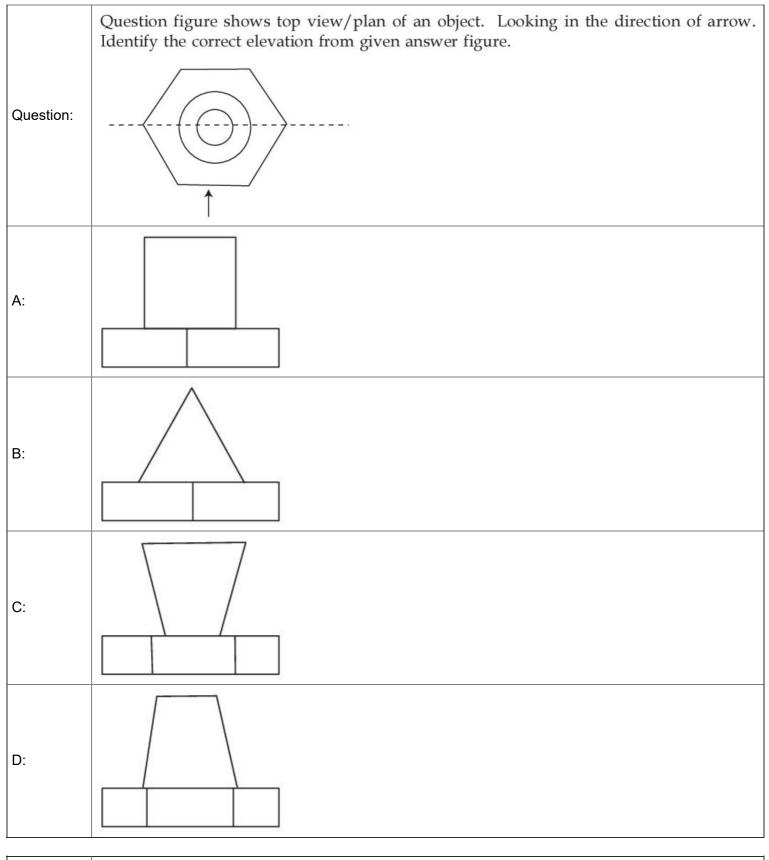
Topic:	Aptitude Test – Part II
Item No:	61
Question ID:	101261
Question Type:	MCQ
Question:	Question figure shows top view/plan of an object. Looking in the direction of arrow, identify the correct elevation from given answer figures.
A:	



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.



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



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

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

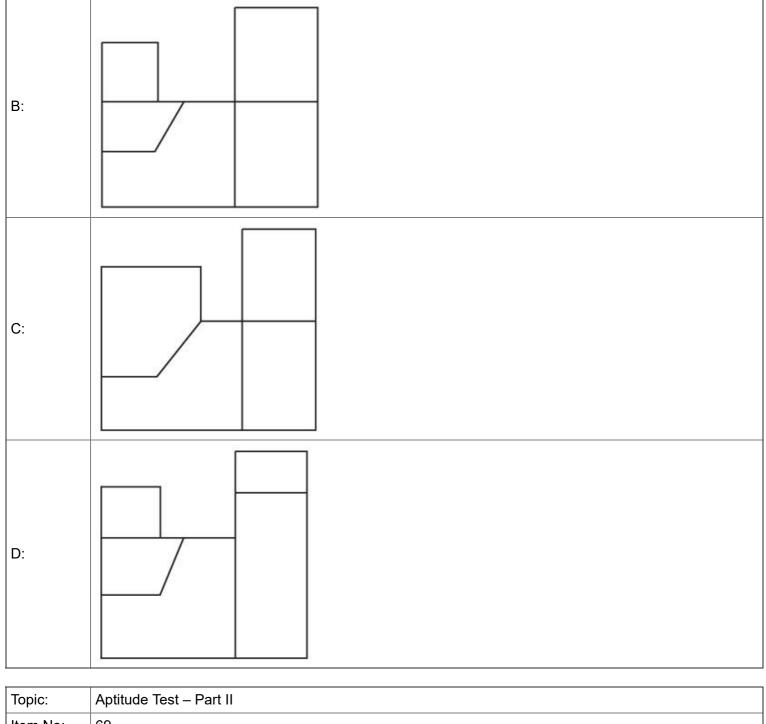
Question:	Question figure shows 3 D view of an object. Identify most appropriate top view/plan of the object from given answer figures.
A :	
B:	
C:	
D:	

Topic:	Aptitude Test – Part II
Item No:	67

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:	



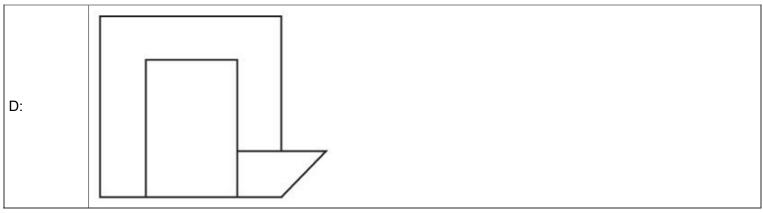
Topic:	Aptitude Test – Part II
Item No:	68
Question ID:	101268
Question Type:	MCQ
Question:	The question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object, looking in the direction of an arrow, from the given answer figures.
A:	



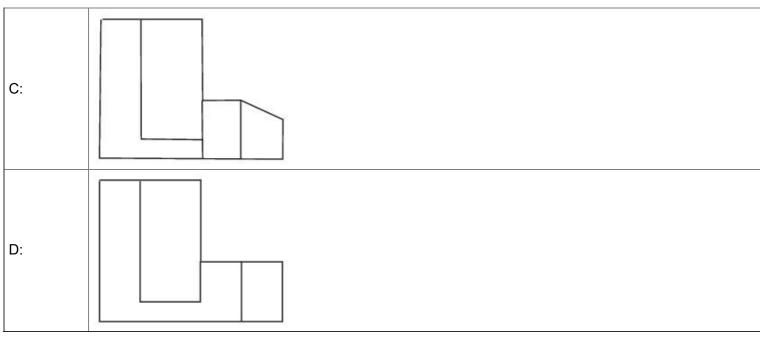
Topic:	Aptitude Test – Part II
Item No:	69
Question ID:	101269
Question Type:	MCQ

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:	
Topic:	Aptitude Test – Part II 70
Question ID:	101270
Question Type:	MCQ

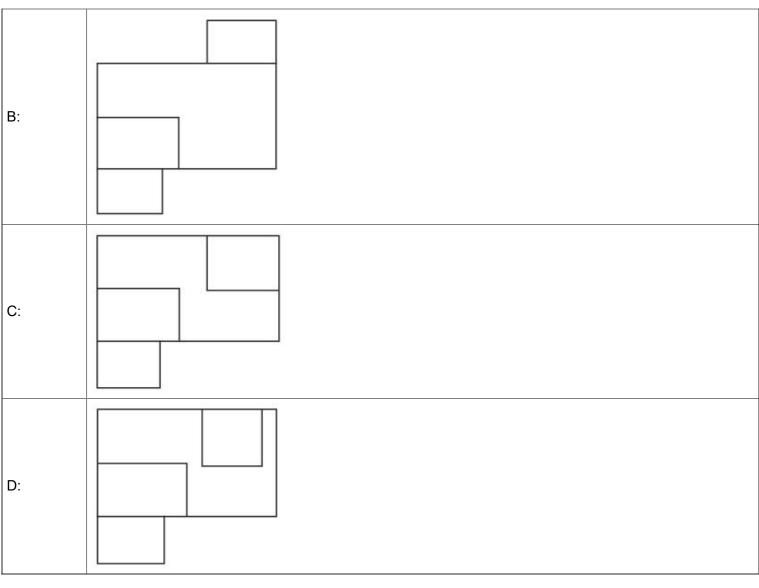
	The question figure shows 3 D view of an object. Identify the most appropriate top view/plan of given 3 D object from given answer figures.
Question:	
A:	
B:	
C:	



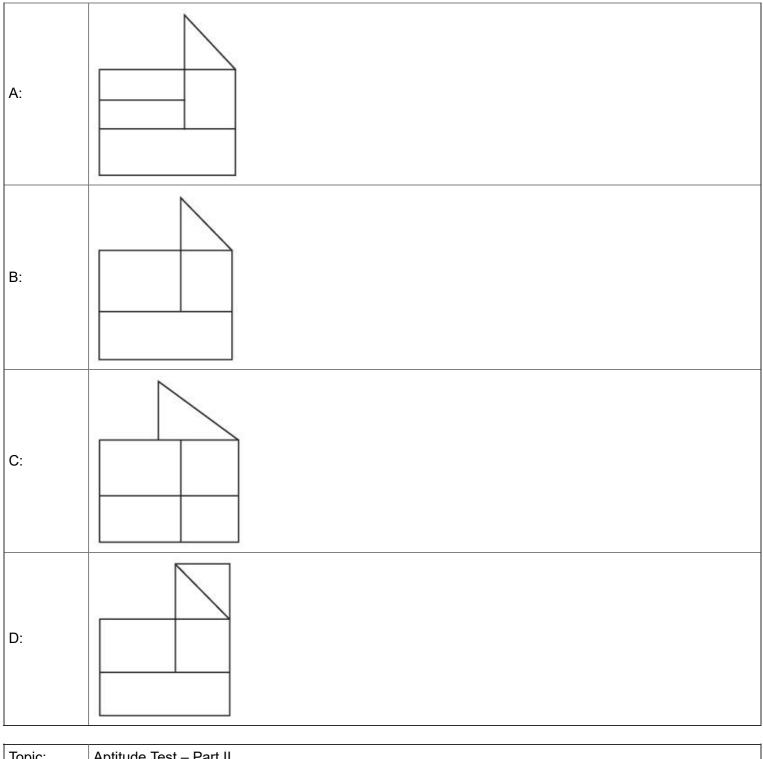
Topic:	Aptitude Test – Part II
Item No:	71
Question ID:	101271
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object. Looking in the direction of an arrow, from the given answer figures.
A:	
B:	



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:	

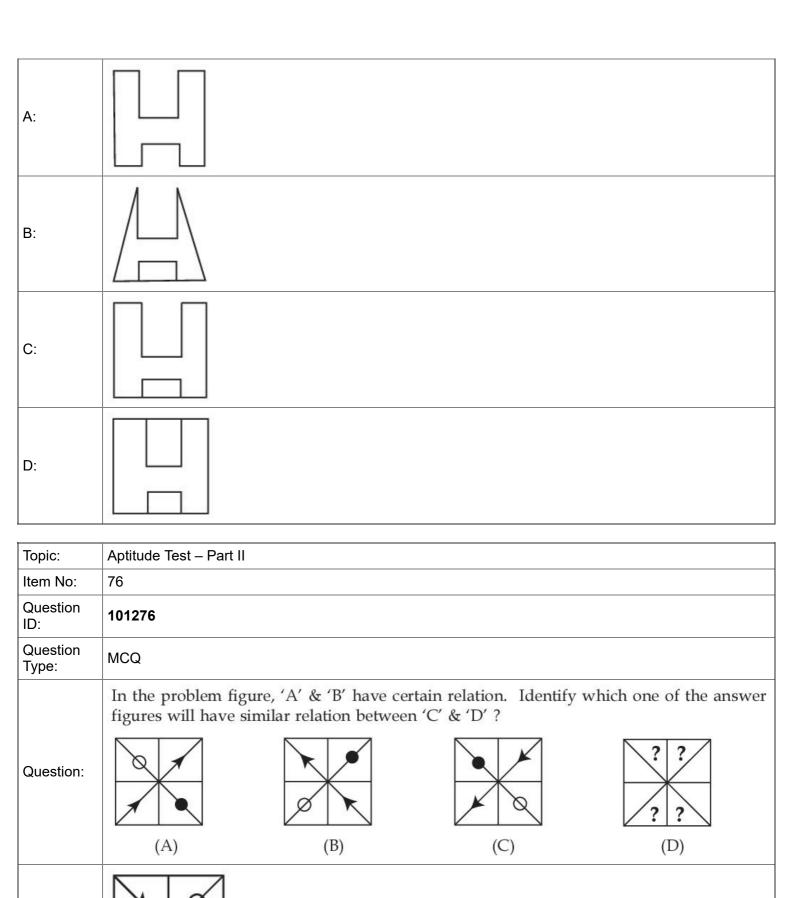


Topic:	Aptitude Test – Part II
Item No:	73
Question ID:	101273
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify the most appropriate elevation of the given 3 D object, looking in the direction of an arrow, from the given answer figures.

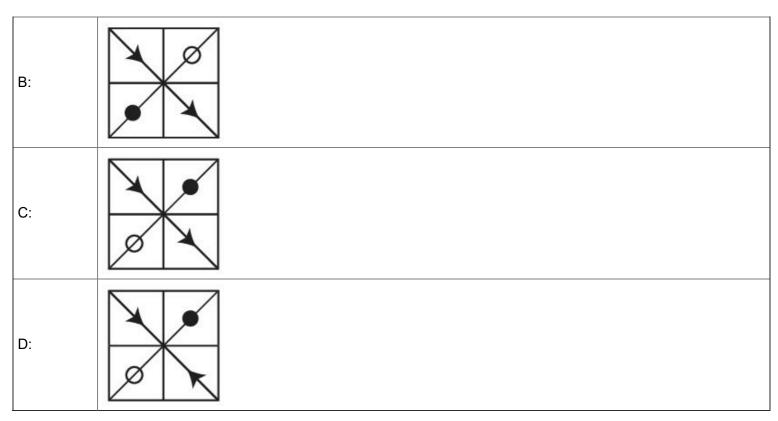


Topic:	Aptitude Test – Part II
Item No:	74
Question ID:	101274
Question Type:	MCQ

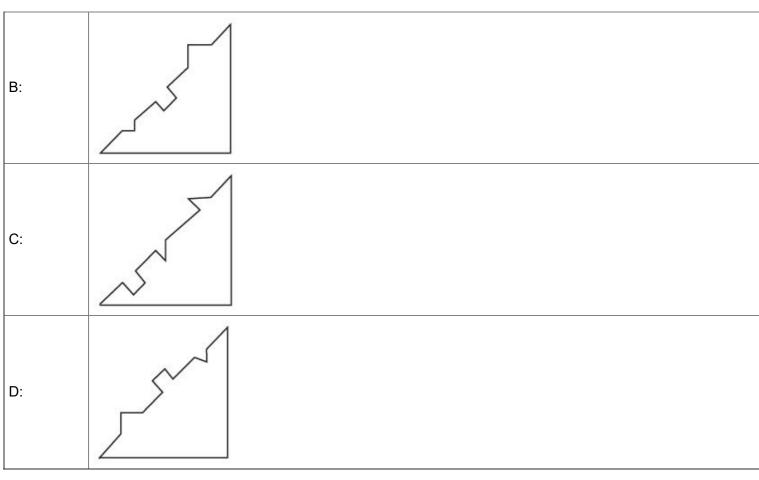
Question:	Question figure shows 3 D view of an object. Identify the most appropriate top view/ plan of the object from the given answer figures.
A:	
B:	
C:	
D:	
Topic:	Aptitude Test – Part II
Item No:	75
Question ID:	101275
Question Type:	MCQ
Question:	Question figure shows 3 D view of an object. Identify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

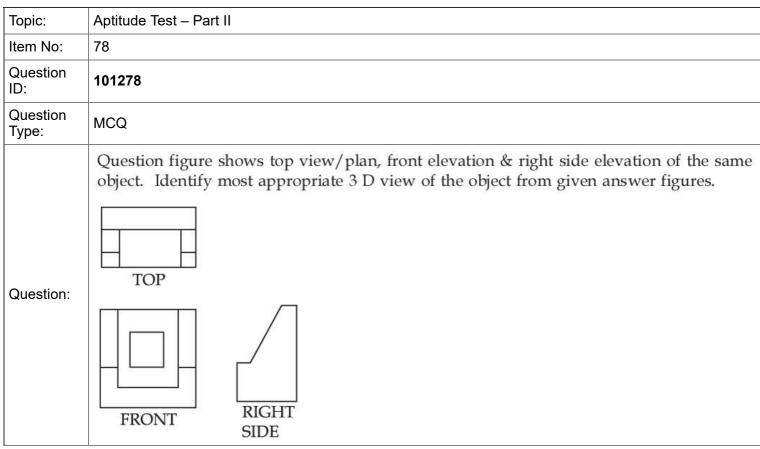


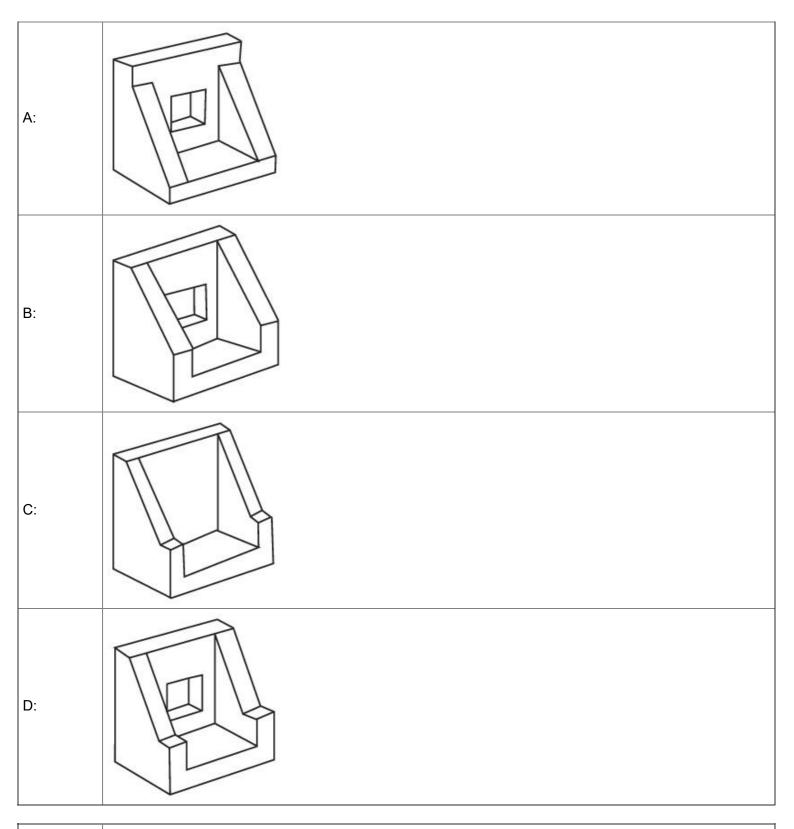
A:



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:	



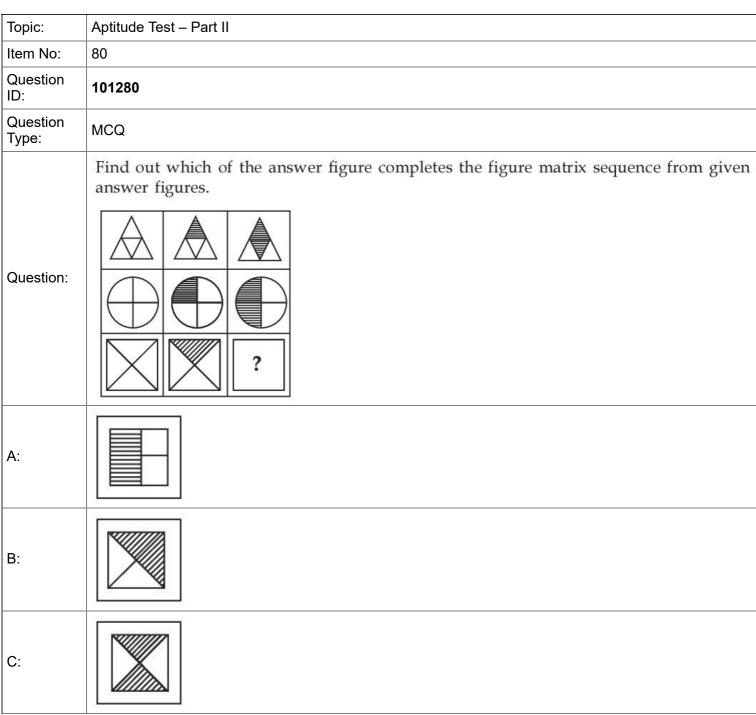




Topic:	Aptitude Test – Part II
Item No:	79
Question ID:	101279
Question Type:	MCQ

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. TOP RIGHT FRONT SIDE
A:	
B:	
C:	





D:



Topic:	Planning – Part III
Item No:	83
Question ID:	101283
Question Type:	MCQ
Question:	Name of first town planning legislation enacted in India.
A:	Bombay Town Planning Act
B:	Madras Town Planning Act
C:	Orissa Town Planning and Improvement Act
D:	Kanpur Urban Area (development) Act

Topic:	Plannin	g – Part III		
Item No:	84			
Question ID:	101284			
Question Type:	MCQ			
	Mato	ch the following:		
	(A)	Eri	(I)	Ladakh
	(B)	Ahar Pynes	(II)	Nagaland
Question:	(C)	Johads	(III)	Bihar
	(D)	Zings	(IV)	Rajasthan
	(E)	Zabo	(V)	Tamilnadu
	(F)	Bawaris	(VI)	Odisha
A:	(A) -	(IV), (B) - (II), (C) - (I),	(D) -	(VI), (E) - (III), (F) - (V)
B:	(A) -	(V), (B) - (III), (C) - (VI), (D)	- (I), (E) - (II), (F) - (IV)
C:	(A) -	(III), (B) - (I), (C) - (VI)	, (D) -	(II), (E) - (IV), (F) - (V)

Topic:	Planning – Part III	
Item No:	85	
Question ID:	101285	
Question Type:	MCQ	
Question:	Arrange the development of following type of modern industries in India with its Chronological order. (A) Textile mill (B) Jute mill (C) Iron and steel factory	
A:	$(B) \to (A) \to (C)$	
B:	$(C) \rightarrow (A) \rightarrow (B)$	
C:	$(A) \rightarrow (B) \rightarrow (C)$ $(B) \rightarrow (C) \rightarrow (A)$	
D:	$(B) \rightarrow (C) \rightarrow (A)$	

Topic:	Planning – Part III
Item No:	86
Question ID:	101286
Question Type:	MCQ
Question:	The distance of points 'A' and 'B' on actual ground is 250 m. What will be the measurement between the points 'A' and 'B' on map drawn on scale 1:1000 ?
A:	25 cm
B:	2.5 cm
C:	25 m
D:	25 mm

Topic:	Planning – Part III
Item No:	87
Question ID:	101287

Question Type:	MCQ
Question:	How many sustainable dimensions were adopted by United Nations ?
A:	4
B:	5
C:	3
D:	6

Topic:	Planning – Part III
Item No:	88
Question ID:	101288
Question Type:	MCQ
Question:	What is the full form of 'URDPFI', guidelines? By Ministry of Housing and Urban Affairs, India:
A:	Urban and Rural Development Plans Formulation and Implementation.
B:	Urban and Rural Design Plans Formulation and Implementation.
C:	Urban and Regional Design Plans Formulation and Implementation.
D:	Urban and Regional Development Plans Formulation and Implementation.

Topic:	Planning – Part III
Item No:	89
Question ID:	101289
Question Type:	MCQ
Question:	Name of famous Peruvian Historic sanctuary enlisted in 'UNESCO' WORLD HERITAGE site.
A:	Machu Picchu
B:	Lima
C:	Tacna
D:	Cusco

Topic:	Planning – Part III
Item No:	90
Question ID:	101290
Question Type:	MCQ
Question:	Which of the following does not enter in GDP?
A:	National Defense
B:	Life expectancy
C:	Public service
D:	Public education

Topic:	Planning – Part III		
Item No:	91		
Question ID:	101291		
Question Type:	MCQ		
Question:	Identify the most appropriate set that relates to physical Infrastructure.		
A:	Housing, education, health.		
B:	Water supply, solid waste management, electricity.		
C:	Petrol pumps, milk booths, LPG.		
D:	Communication, parks, fire station.		

Topic:	Planning – Part III
Item No:	92
Question ID:	101292
Question Type:	MCQ

	Which one of the following is not correct pair?				
	List - I			List - II	
Question:	(A)	Mediterranean Region	(I)	Pleasant Climate	
Question.	(B)	Ganga Plains	(II)	Minerals	
	(C)	Osaka	(III)	Industrial Region	
	(D)	Katanga Zambia	(IV)	Copper mines	
A:	(A) - (I)				
B:	(B) - (II)				
C:	(C) - (III)				
D:	(D) - (IV)				

Topic:	Planning – Part III		
Item No:	93		
Question ID:	101293		
Question Type:	MCQ		
Question:	Primary sector of economic activity is associated with:		
A:	Real estate		
B:	Agriculture		
C:	Construction		
D:	Education		

Topic:	Planning – Part III		
Item No:	94		
Question ID:	101294		
Question Type:	MCQ		
Question:	The term 'Necropolis' refers to:		
A:	Small size of city		
B:	The New Metropolis		

C:	The dead City
D:	The City in space

Topic:	Planning – Part III		
Item No:	95		
Question ID:	101295		
Question Type:	MCQ		
Question:	A Cul - de - sac is a street where :		
A:	Only two wheelers are permitted		
B:	Thorough traffic is discouraged		
C:	Pedestraians are not permitted		
D:	Vehicles are permitted to move in one direction only		

Topic:	Planning – Part III		
Item No:	96		
Question ID:	101296		
Question Type:	MCQ		
Question:	Which year Human Development Report was published for the first time in India?		
A:	1981		
B:	1990		
C:	1870		
D:	1980		

Topic:	Planning – Part III		
Item No:	7		
Question ID:	101297		
Question Type:	MCQ		

Question:	A City with 2 million population has the notified Urban area of 250 sq.km. One-fourth of the total population of the city resides in slums within four percent of notified Urban area. Find the correct answer.			
A:	The density of population in slum is 5,000 persons per Sq.km.			
B:	The density of population in slums is 50,000 persons per Sq.km.			
C:	The density of population in slums is 10,000 persons per Sq.km.			
D:	The density of population in slum is 1,000 persons per Sq.km.			

Topic:	Planning – Part III			
Item No:	98			
Question ID:	101298			
Question Type:	MCQ			
Question:	Town is classified as 'Mono functional' when:			
A:	≥60% workers are in single sector			
B:	≥40% workers are in single sector			
C:	≥30% workers are in single sector			
D:	≥50% workers are in single sector			

Topic:	Planning – Part III				
Item No:	99				
Question ID:	101299	101299			
Question Type:	MCQ				
	Iden	Identify the incorrect pair for Biomedical Waste Management in Hospitals.			
	List - II		List - II		
Question:	(A)	Red	(I)	Outdated and discarded medicines	
Question.	(B)	Blue	(II)) Glass bottles and articles	
	(C)	Yellow	(III)	I) Infections waste, bandages	
	(D)	Black	(IV	Needles without syringes, blads shapes	
A:	A - 1	I			

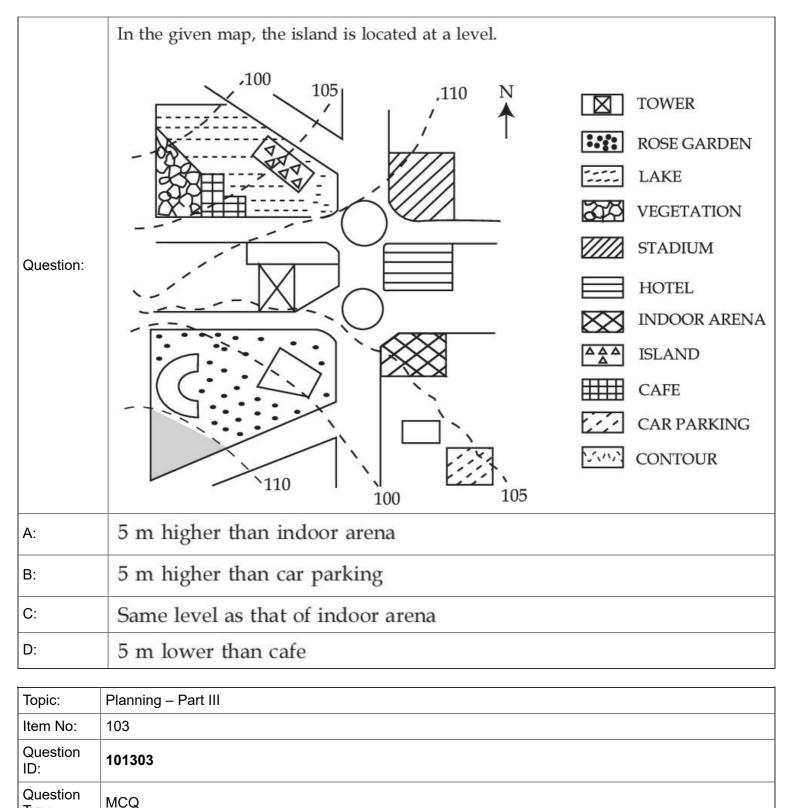
B:	B - II
C:	C - III
D:	D - IV

Topic:	Planning – Part III
Item No:	100
Question ID:	101300
Question Type:	MCQ
Question:	Which aspect is in the social dimension but not in environmental dimension from given Venn diagram. Sustainable natural & Built Environmental Economic Development Sustainable Development Sustainable Economic Equitable Social Environment
A:	Sustainable economic development
B:	Sustainable development
C:	Equitable social environment
D:	Sustainable Natural and built environment

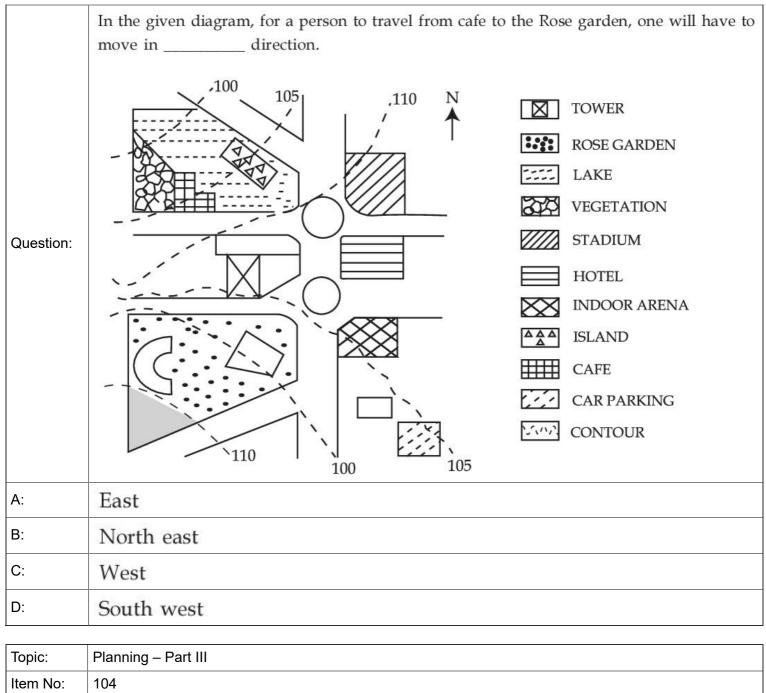
Topic:	Planning – Part III
Item No:	101
Question ID:	101301
Question Type:	MCQ

	The diagram shows the number of male and female students using different modes of transport
	to commute to their school which of the following statements is/are correct?
Question:	Solution Solution
A:	Both (D) and (A)
B:	Only (D)
C:	Both (B) and (C)
D:	Only (A)
Tania	Diamaina Doub III

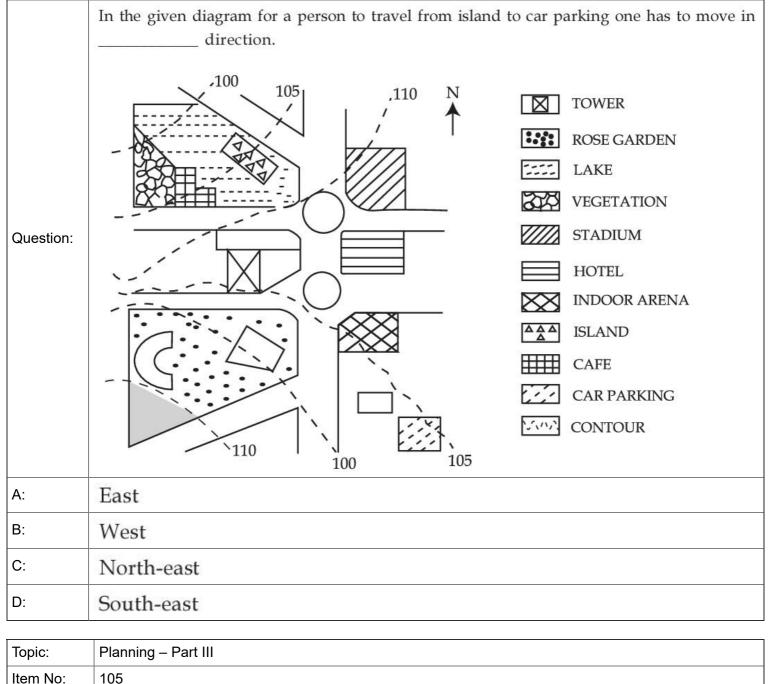
Topic:	Planning – Part III
Item No:	102
Question ID:	101302
Question Type:	MCQ



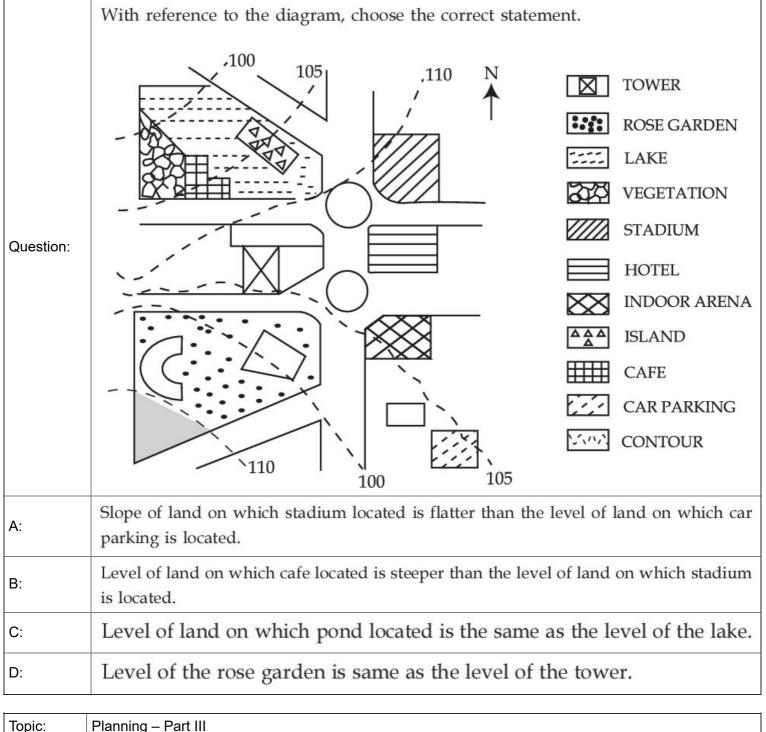
Type:



Topic:	Planning – Part III
Item No:	104
Question ID:	101304
Question Type:	MCQ



Topic:	Planning – Part III
Item No:	105
Question ID:	101305
Question Type:	MCQ



Topic:	Planning – Part III
Item No:	106
Question ID:	101306
Question Type:	MCQ

Question:	Today one-forth of the mankind resides in inadequate housing characterised by lack of ventilation, temporary building materials, lack of infrastructure and poor environmental quality. Numerous authors have defined such housing as slums and have loaded it with evil cannotations such as 'Squatter'. illiteracy and higher incidence of crime. A typical response towards them is to demolish or remove from the urban fabric. In India slums are viewed as informal housing transition arising due to inability of formal channels to provide shelter supply to meet housing demand due to ever increasing migrant work force. Which is arriving in urban areas in demand of better job opportunities. Slum redevelopment programs, National Housing and Habitat policy and affordable housing policy are some of the results of shift in housing paradigm to fulfil demand of shelters. The nearest meaning of 'Squatter' in this paragraph would be.
A:	Poverty
B:	Unlawfully occupied
C:	Destitute
D:	Delinquency

Topic:	Planning – Part III
Item No:	107
Question ID:	101307
Question Type:	MCQ

	Today one forth of the mankind resides in inadequate housing characterised by lack of ventilation, temporary building materials, lack of infrastructure and poor environmental quality. Numerous authors have defined such housing as slums and have loaded it with evil cannotations such as 'Squatter', illiteracy and higher incidence of crime. A typical response towards them is to demolish or remove from the urban fabric.
Question:	In India, slums are viewed as informal housing transition arising due to inability of formal channels to provide shelter supply to meet housing demand due to ever increasing migrant workforce which is arriving in urban areas in demand of better job opportunities. Slum redevelopment programs, National Housing and Habitat policy and affordable housing policy are some of the results of shift in housing paradigm to fulfil demand of shelters.
	What conclusions can be drawn from this paragraph? (A) The perspective towards slums determine interventions.
	(B) Incidence of slums is a global phenomena.
	(C) Slums are result of formal system failure.
	(D) Slums should be removed from the city.
	(E) Slums are integral part of the city.
A:	(B), (D) only
B:	(A), (C), (E) only
C:	(A), (B), (C), (E) only
D:	(A), (B), (C), (E) only (B), (C), (D) only