Joint Entrance Examination (Main) - JEE(Main)

Paper Name	B. Arch (Paper 2A)
Test Date	23-06-2022
Slot	SLOT - 1
Lang	English

Passage: Passage_English

Q: 1
Topic Name: Mathematics – Part I-Section A

ItemCode: 100401

Question: The set $\left\{\theta : \frac{\pi}{2} \le \theta \le \frac{3\pi}{2},\ \theta \ne \pi,\ \cot^2\theta + 3\,\text{cosec}\theta + 3 < 0\right\}$ is equal to :

A $\left(\frac{\pi}{2}, \frac{4\pi}{3}\right) - \{\pi\}$

B $\left(\frac{7\pi}{6}, \frac{3\pi}{2}\right)$

C $\left(\frac{4\pi}{3}, \frac{3\pi}{2}\right)$

D $\left(\pi, \frac{7\pi}{6}\right)$

Q: 2
Topic Name: Mathematics – Part I-Section A

ItemCode: 100402

Question: Let $f : \mathbf{R} - \{4\} \to \mathbf{R} - \{1\}$ and $g : \mathbf{R} \to \mathbf{R}$ be defined by $f(x) = \frac{x}{x-4}$ and $g(x) = 4x + 3$.

If $(fog)^{-1}(\alpha) = 0$ for some α, then $\frac{g(\alpha)}{f(\alpha)}$ is equal to :

A 21

B -21

C $\frac{-1}{21}$

D 7

Q: 3
Topic Name: Mathematics – Part I-Section A

ItemCode: 100403

Question: The sum of the modulus of all the roots of the equation $(x-1)\ (x+1)\ (2x+1)\ (2x-3) = 15$ is :

A $\frac{55}{8}$

B $\frac{9}{2}$

C	$\frac{11}{2}$
D	$\frac{23}{2}$

Q:4
Topic Name: Mathematics – Part I-Section A

ItemCode:100404

Question: The locus of complex number $z = x + iy$, $z \neq -2i$, satisfying $\left|\frac{z-3i}{z+2i}\right| = \frac{\sqrt{2}}{\sqrt{3}}$ is :

A	a straight line parallel to the x-axis
B	an ellipse with eccentricity $\sqrt{\frac{2}{3}}$
C	a circle with centre $(0, -13)$
D	a circle with radius $5\sqrt{6}$

Q:5
Topic Name: Mathematics – Part I-Section A

ItemCode:100405

Question: For two 3×3 matrices A and B, $AB = BA$. Consider the following two statements :
(S1) If A^3 is skew-symmetric and B^2 is symmetric, then $(AB)^6$ is symmetric.
(S2) If A^3 is symmetric and B^2 is skew-symmetric, then $(AB)^6$ is skew-symmetric.

A	Both (S1) and (S2) are true
B	Only (S1) is true
C	Only (S2) is true
D	Both (S1) and (S2) are false

Q:6
Topic Name: Mathematics – Part I-Section A

ItemCode:100406

Question: Let $\lambda, \mu \in \mathbf{R}$. For which one of the following ordered pairs (λ, μ), the system

$$3x - y + z = 1$$
$$2x - 3y + \lambda z = \mu$$
$$x + y + 3z = -1$$

has no solution ?

A	$(-4, 1)$
B	$(4, 3)$
C	$(-4, 3)$
D	$(4, 1)$

Q:7

Topic Name: Mathematics – Part I-Section A

ItemCode: 100407

Question: There are 21 terms in a sequence S of which the first 11 terms form an A.P. with common difference 2 and the last 11 terms are in a G.P. with common ratio $\frac{1}{2}$. If the middle terms of both A.P. and G.P. are same, then the 11^{th} term of S is :

A $\frac{320}{31}$

B $\frac{160}{31}$

C $\frac{160}{63}$

D $\frac{64}{33}$

Q: 8

Topic Name: Mathematics – Part I-Section A

ItemCode: 100408

Question: $\lim\limits_{x\to\infty} x \log_e \left(e\left(1+\frac{1}{x}\right)^{1-x}\right)$ is equal to :

A $\frac{1}{2}$

B $\frac{2}{3}$

C $\frac{3}{2}$

D 1

Q: 9

Topic Name: Mathematics – Part I-Section A

ItemCode: 100409

Question: If $y\sqrt{x^2+1} = \log_e\left(\sqrt{x^2+1}-x\right)$, then :

A $(x^2+1)y' + xy - 1 = 0$

B $(x^2+1)y'' + 3xy' + y = 0$

C $(x^2+1)y'' + xy' - y = 0$

D $(x^2+1)y' + 2xy + 1 = 0$

Q: 10

Topic Name: Mathematics – Part I-Section A

ItemCode:100410

Consider the following statements

(S1) $1\cdot2+2\cdot3+3\cdot4+.....+n\cdot(n+1)\leq\frac{n(n^2+40)}{10}$

(S2) $1\cdot3+3\cdot5+5\cdot7+.....+(2n-1)\cdot(2n+1)\leq\frac{4n^2(2n+3)}{5}$

Question: Then, for any $n\in\mathbf{N}$,

A	both (S1) and (S2) are true
B	both (S1) and (S2) are false
C	only (S1) is true
D	only (S2) is true

Q:11
Topic Name: Mathematics – Part I-Section A

ItemCode:100411

Question: The value of the integral $\int_0^1 \tan^{-1}(1-x+x^2)\,dx$ is :

A	$\frac{\pi}{4}-\frac{1}{2}\log_e 2$
B	$\frac{\pi}{2}-\log_e 2$
C	$\log_e 2$
D	$\pi+\log_e 2$

Q:12
Topic Name: Mathematics – Part I-Section A

ItemCode:100412

Let $\vec{a}=x\hat{i}+\hat{j}+\hat{k}$, $\vec{b}=y\hat{i}+2\hat{k}$ and $\vec{c}=2\hat{j}+y\hat{k}$ be three vectors such that projection of $\vec{a}$ on $\vec{b}$ is $\frac{4}{\sqrt{5}}$ and projection of $\vec{a}$ on $\vec{c}$ is $\frac{3}{\sqrt{5}}$. If $|\vec{c}|<3$ and $|\vec{a}|<6$, then $\vec{a}\cdot(\vec{b}\times\vec{c})$

Question: is equal to :

A	-7
B	-5
C	9
D	16

Q:13
Topic Name: Mathematics – Part I-Section A

ItemCode:100413

Question: A rod of length 11 units moves in such a way that its ends A and B are on the lines $2x-3y=0$ and $3x+2y=0$, respectively. The mid-point of the rod lies on a :

A	circle of radius 11 units
B	circle of radius $\frac{11}{2}$ units
C	parabola whose latus rectum is of length 11 units
D	parabola whose latus rectum is of length $\frac{11}{2}$ units

Q:14
Topic Name: Mathematics – Part I-Section A

ItemCode:100414

Question: Consider the following differential equation

$$\frac{dy}{dx}=\frac{e^{2y}+x^2}{x^3},\ x>0.$$

If $y(e)=1$, then $y(1)$ is equal to :

A	$-\frac{3}{2}$
B	$\log_e(\sqrt{3})$
C	$\log_e\left(\frac{1}{\sqrt{5}}\right)$
D	$\log_e\left(\frac{1}{\sqrt{3}}\right)$

Q:15
Topic Name: Mathematics – Part I-Section A

ItemCode:100415

Question: A light ray is thrown from the point (2, 0). After reflecting from y-axis at (0, 2), if this ray divides the line segment of the line $x+y=3$ in the first quadrant in the ratio m : n (m < n), then $\frac{2n-m}{2n+m}$ is equal to :

A	$\frac{9}{11}$
B	$\frac{11}{13}$
C	$\frac{5}{7}$

D	$\frac{2}{3}$

Q:16
Topic Name: Mathematics – Part I-Section A

ItemCode:100416

Question: The distance between the two points on the hyperbola $x^2-y^2=60$, where the tangents are parallel to the line $y=2x$, is :

A	$6\sqrt{10}$
B	20
C	10
D	$10\sqrt{2}$

Q:17
Topic Name: Mathematics – Part I-Section A

ItemCode:100417

Question: Let Q be the mirror image of the point (2, 3, 4) with respect to the plane $2x-y+z+4=0$. Then Q lies on :

A	$x-y+3z+5=0$
B	$x+2y+3z-10=0$
C	$\frac{x-6}{5}=y-8=\frac{z-5}{2}$
D	$\frac{x+6}{5}=y+8=\frac{z+5}{3}$

Q:18
Topic Name: Mathematics – Part I-Section A

ItemCode:100418

Question: For some $p \in \mathbf{R}$, let the line (L_1) $\frac{x-1}{2}=\frac{y-1}{p}=\frac{z-2}{2}$ intersect the line L_2 passing through the point A(1, 2, 0) and parallel to the plane $x+y+z=1$. If L_1 lies on the plane $2x+3y-4z=3$, then the line L_2 is :

A	$\frac{8x-5}{-3}=\frac{4y-3}{-5}=\frac{8z-13}{13}$
B	$\frac{4x-5}{1}=\frac{2y-3}{-1}=\frac{4z-13}{13}$
C	$\frac{8x-5}{3}=\frac{4y-3}{5}=\frac{4z-13}{-13}$
D	$\frac{8x+5}{-13}=\frac{4y+3}{-11}=\frac{8z-13}{13}$

Q:19
Topic Name: Mathematics – Part I-Section A

ItemCode:100419

Question: Let the mean of the data 2, 6, 12, 8, k, 20 be 12. If m and σ^2 are the mean deviation about the median and the variance of the data respectively, then $\frac{\sigma^2}{m}$ is equal to :

A	9
B	10
C	12
D	18

Q:20
Topic Name: Mathematics – Part I-Section A

ItemCode:100420

Question: The negation of $(p \rightarrow \sim p) \wedge ((\sim q) \rightarrow q)$ is equivalent to :

A	$(\sim p) \rightarrow q$
B	$p \rightarrow q$
C	$(\sim p) \rightarrow (\sim q)$
D	$p \rightarrow \sim q$

Q:21
Topic Name: Mathematics – Part I-Section B

ItemCode:100421

Question: Let $\binom{n}{k}$ denote the number of ways of choosing k objects out of n distinct objects.

If $\sum_{k=1}^{20}\binom{20}{k}\binom{20}{k-1}(-1)^k+\sum_{k=0}^{20}\binom{20}{k}^2(-1)^k+\sum_{k=0}^{21}\binom{21}{k}^2(-1)^k = p\binom{19}{10}$, then p^2-p is equal to _____.

Q:22
Topic Name: Mathematics – Part I-Section B

ItemCode:100422

Question: If the largest area of a rectangle inscribed in an equilateral triangle, such that a side of the rectangle is on a side of the triangle, is $\frac{25}{2}\sqrt{3}$ unit^2, then the perimeter (in units) of the triangle is _____.

Q:23
Topic Name: Mathematics – Part I-Section B

ItemCode:100423

Question: Let [t] denote the greatest integer less than or equal to t. The number of points where the function. $f(x)=\begin{cases} x^2+2x+2 & \text{if } x\le -1 \\ \left[x^2+\frac{1}{4}x+\frac{5}{3}\right] & \text{if } -1<x<1 \\ x^2-2x+4 & \text{if } x\ge 1 \end{cases}$ is not continuous, is _____.

Q:24
Topic Name: Mathematics – Part I-Section B

ItemCode:100424

Question: The number of 6-digit numbers formed by using all the digits 1, 3, 4, 5, 6, 8 and divisible by 11, is _____.

Q:25
Topic Name: Mathematics – Part I-Section B

ItemCode:100425

Question: Let two elements (a, b), (c, d) be selected randomly from the Set

$S=\{(m, n) : m, n \in \{1, 2, ..., 10\}, m \neq n\}$.

If the probability that $a+b=c+d$ is p, then $(45)^2$ p is equal to :

Q:26
Topic Name: Mathematics – Part I-Section B

ItemCode:100426

Question: If the length of a common tangent to $x^2+y^2=16$ and $9x^2+25y^2=225$, between the points of contact is L, then $32L^2$ is equal to _____.

Q:27
Topic Name: Mathematics – Part I-Section B

ItemCode:100427

Question: Let $f_n(x)=\sum_{j=1}^{n}\cot^{-1}\left(1-(x+j)+(x+j)^2\right)$ for all $x\ge 0$. Then $\sum_{j=1}^{10}(j^2+1)\sin^2(f_j(0))$ is equal to ————————.

Q:28
Topic Name: Mathematics – Part I-Section B

ItemCode:100428

Question: If the area enclosed by the curves $y=2x^2-1$ and $|x|=3-2y$ is A, then 12 A is equal to ————————.

Q:29
Topic Name: Mathematics – Part I-Section B

ItemCode:100429

Question: If the roots of the equation $x^2+(\sqrt{3}-\sqrt{2}-1)x+(\sqrt{3}-2-\sqrt{6}+2\sqrt{2})=0$ are $\tan\frac{A}{2}$ and $\tan\frac{B}{2}$, $0<A, B<\pi$, then the value of $12\sec^2 4(A+B)$ is equal t

Q:30
Topic Name: Mathematics – Part I-Section B

ItemCode:100430

Question: The value of $2\int_{-1}^{4}(|x-3|+[x])\,dx$, where $[x]$ denotes the greatest integer less than or equal to x, is _____.

Q:31
Topic Name: Aptitude Test – Part II

ItemCode:100431

Question: Which of the following architect is famous for working with bricks and mud ?

A	Zaha Hadid
B	Laurie Baker
C	Christopher Benninger
D	Frank Loyd Wright

Q:32
Topic Name: Aptitude Test – Part II

ItemCode:100432

Question: An office building was built with of 10 floors. It's ground floor is having height of 4 m including slab thickness and all other floors are of 3500 mm height including slab thickness. What is the total height of the building in meters :

A	35 meters
B	31.5 meters
C	35.5 meters
D	39 meters

Q:33
Topic Name: Aptitude Test – Part II

ItemCode:100433

Question: Match **List-I** with **List-II** :

	List-I		**List-II**
(A)	Amer fort	(I)	Chand Minar
(B)	Agra fort	(II)	Intricate Jali Work
(C)	Qutub minar	(III)	Pietra Dura Work
(D)	Daulatabad fort	(IV)	Tapering Tower

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

Q:34
Topic Name: Aptitude Test – Part II

ItemCode:100434

Question: Name the three primary colours in the colour wheel :

A	Red, Orange and Yellow
B	Green, Orange and Yellow
C	Red, Yellow and Blue
D	Blue, Purple and Orange

Q:35
Topic Name: Aptitude Test – Part II

ItemCode:100435

Question: Ajanta and Ellora in Aurangabad district of Maharashtra state are famous for _____.

A	Intricate carvings of Hindu temples
B	Mountains
C	Rock cut caves
D	Forest

Q:36
Topic Name: Aptitude Test – Part II

ItemCode:100436

Question: Match the Honorific given to the freedom fighters in **List-I** with their names in **List-II** :

	List-I		**List-II**
(A)	Netaji	(I)	Vallabhbhai Patel
(B)	Punjab Kesari	(II)	Subhash Chandra Bose
(C)	Iron man of India	(III)	Nana Patil
(D)	Krantisinh	(IV)	Lala Lajpat Rai

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

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

Q:37
Topic Name: Aptitude Test – Part II

ItemCode:100437

Question: Harappa and Mohenjodaro of Indus Valley are situated in which country as per current world map ?

A	Pakistan
B	Afganistan

C	Bangla Desh
D	Nepal

Q:38
Topic Name: Aptitude Test – Part II

ItemCode:100438

Question: Which of the following famous architect has designed the university of Agriculture and science at Bangalore ?

A	Achyut Purshottam Kanvinde
B	Sanjay Puri
C	Laurie Baker
D	Anant Raje

Q:39
Topic Name: Aptitude Test – Part II

ItemCode:100439

Question: If the distance between two points on a map measures 10 cm. If the scale of given map is 1 : 500, what is the actual distance between these two points on ground :

A	50 cm
B	25 cm
C	50 m
D	25 m

Q:40
Topic Name: Aptitude Test – Part II

ItemCode:100440

Question: These days Green Architecture is promoted because :

A	It costs less initially
B	It lasts longer
C	It uses good colours
D	It is environment friendly

Q:41
Topic Name: Aptitude Test – Part II

ItemCode:100441

Question: The growth of London city happened along which river ?

A	River Nile
B	River Thames
C	River Mekong
D	River Great Ouse

Q:42

Topic Name: Aptitude Test – Part II

ItemCode: 100442

Question: Who has designed the famous "Chhatrapati Shivaji Maharaj Vastu Sangrahalaya" at Mumbai ?

A	George Wittet
B	James Miller
C	William Young
D	Robert Mylne

Q: 43

Topic Name: Aptitude Test – Part II

ItemCode: 100443

Question: Who is the painter of the famous painting Bharat Mata ?

A	Raja Ravi Verma
B	Nandalal Bose
C	Abanindranath Tagore
D	Ravindranath Tagore

Q: 44

Topic Name: Aptitude Test – Part II

ItemCode: 100444

Question: The hanging gardens of babylon is presently located in which of the following country ?

A	UAE
B	Iran
C	Turkey
D	Iraq

Q: 45

Topic Name: Aptitude Test – Part II

ItemCode: 100445

Question: Which of the following Indian City's planning is based on 'Vastu Purusha Mandla' method of planning ?

A	Varanasi
B	Rajkot
C	Jaipur
D	Tirupati

Q: 46

Topic Name: Aptitude Test – Part II

ItemCode: 100446

Question: The world heritage site of Bhimbetka is situated in which State of India ?

A	Uttarakhand
B	Andhra Pradesh
C	Madhya Pradesh
D	Odisha

Q:47
Topic Name: Aptitude Test – Part II

ItemCode:100447
Question: Gobind Sagar Lake is located in which of the following State of India ?

A	Gujarat
B	Himachal Pradesh
C	Uttar Pradesh
D	Rajasthan

Q:48
Topic Name: Aptitude Test – Part II

ItemCode:100448
Question: 'ADFF' is the abbreviation of _____.

A	Architecture & Design Film Festival
B	Architecture, Design & Fashion Festival
C	Architectural Design Forum for Faculties
D	Art & Design Forum of Faculties

Q:49
Topic Name: Aptitude Test – Part II

ItemCode:100449
Question: Which of the following celebrity actor was part of the award winning movie "Which Annie Gives It those ones", which was based on life of student of architecture ?

A	Amir Khan
B	Shah Rukh Khan
C	Salman Khan
D	Akshay Kumar

Q:50
Topic Name: Aptitude Test – Part II

ItemCode:100450
Question: Cool colours in the colour wheel can represent :

A	Sunlight
B	Heat
C	Sky
D	Darkness

Q:51
Topic Name: Aptitude Test – Part II

ItemCode:100451

Question:

Match the **List-I** with **List-II** :

	List-I		**List-II**
(A)	City of Sky Scrapers	(I)	Beijing, China
(B)	Cockpit of Europe	(II)	San Francisco, USA
(C)	Forbidden City	(III)	New York, USA
(D)	City of Golden Gate	(IV)	Belgium

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

Q:52
Topic Name: Aptitude Test – Part II

ItemCode:100452

Question:

Given below are the names of UNESCO world heritage sites of India. Choose the correct sequence year wise in which they are declared as a UNESCO world heritage sites.

(A) Sun Temple, Konark
(B) Humayun's Tomb, Delhi
(C) Ajanta Caves, Maharashtra
(D) Fatehpur Sikri, Agra
(E) Jantar Mantar, Jaipur

A	(E)-(B)-(D)-(C)-(A)
B	(C)-(B)-(A)-(D)-(E)
C	(C)-(A)-(D)-(B)-(E)
D	(D)-(A)-(C)-(E)-(B)

Q:53
Topic Name: Aptitude Test – Part II

ItemCode:100453

Question:

Match the **List-I** with **List-II** :

	List-I		**List-II**
(A)	Nahargarh Fort	(I)	Hyderabad
(B)	Lakshmi Vilas Palace	(II)	Jodhpur
(C)	Chowmahalla Palace	(III)	Jaipur
(D)	UMAID Bhawan Palace	(IV)	Vadodra

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

Q:54
Topic Name: Aptitude Test – Part II

ItemCode:100454

Question:

Match the **List-I** with **List-II** :

	List-I		**List-II**
(A)	Aravali Range	(I)	Southern Part of India
(B)	Sirumali Hills	(II)	Western Part of India
(C)	Zask Range	(III)	Eastern Part of India
(D)	Garo Khasi Jaintia	(IV)	Northern Part of India

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

Q:55
Topic Name: Aptitude Test – Part II

ItemCode:100455

Question:

Match the **List-I** with **List-II** :

	List-I		**List-II**
(A)	Sibsagar Temple	(I)	Haveri, Karnataka
(B)	Lakshmana Temple	(II)	Assam
(C)	Dashavatara Temple	(III)	Lalitpur, Uttar Pradesh
(D)	Siddeshvara Temple	(IV)	Khajuraho

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

Q:56
Topic Name: Aptitude Test – Part II

ItemCode:100456

Given below are two statements :

Statement - I : Loktak Lake is famous for its floating village.

Statement - II : Loktak Lake is very rich in Biodiversity.

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

Question:

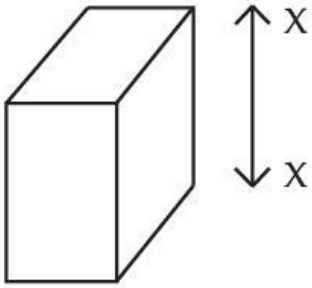
A	Both **Statement I** and **Statement II** are correct
B	Both **Statement I** and **Statement II** are incorrect
C	**Statement I** is correct but **Statement II** is incorrect
D	**Statement I** is incorrect but **Statement II** is correct

Q:57
Topic Name: Aptitude Test – Part II

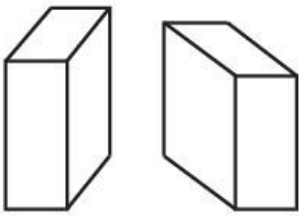
ItemCode:100457

Which one of the answer figure is **correct** mirror image of the problem figure with respect to 'X-X' axis ?

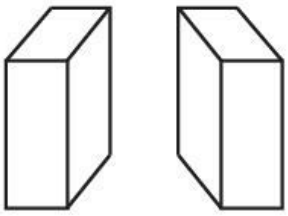
Question:



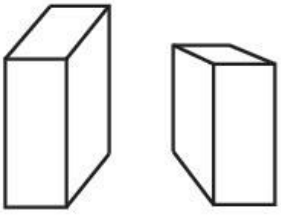
A



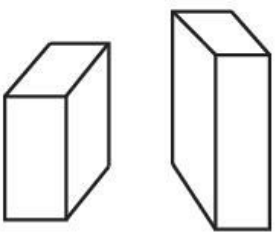
B



C



D

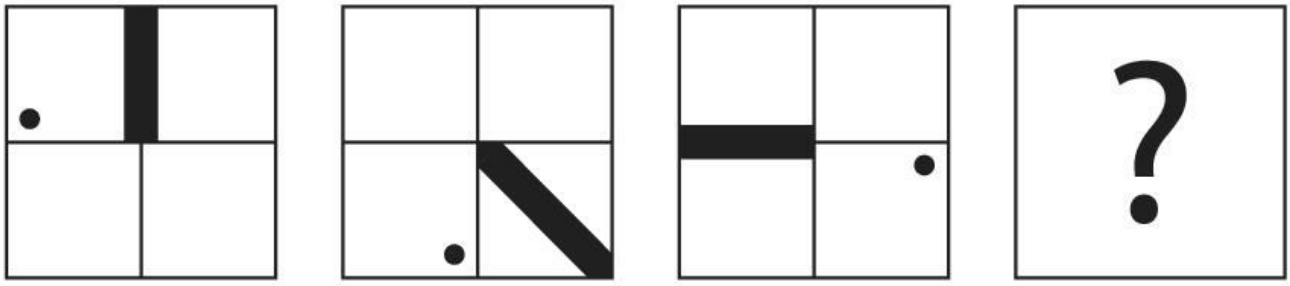


Q:58

Topic Name: Aptitude Test – Part II

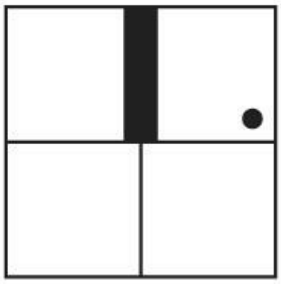
ItemCode: 100458

Question figure A, B and C shows series of configuration. Select the **correct** option from answer figure which will be best suitable for figure 'D' :

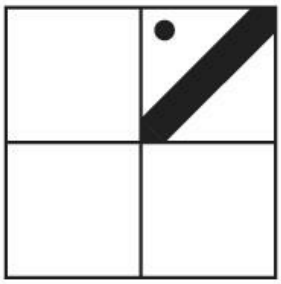


Question:

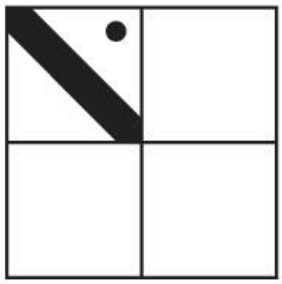
A



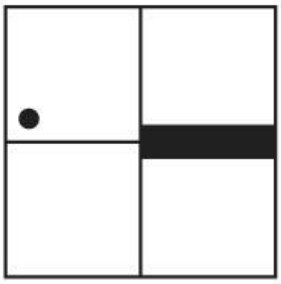
B



C



D



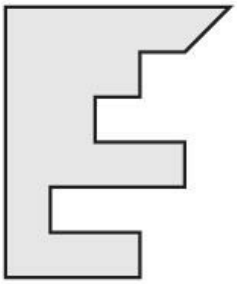
Q: 59

Topic Name: Aptitude Test – Part II

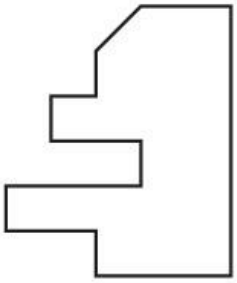
ItemCode:100459

Given image in question figure is part of a square. Which of the following answer figure fit perfectly on it's right such that it will complete the square ?

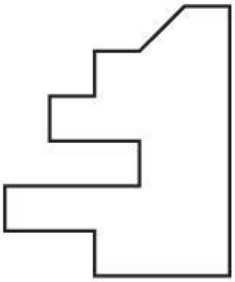
Question:



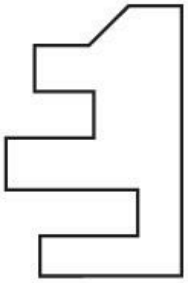
A



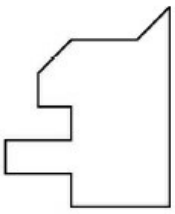
B



C



D



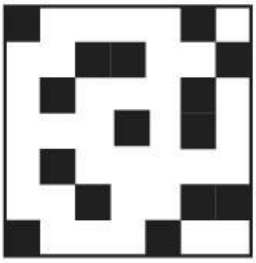
Q:60

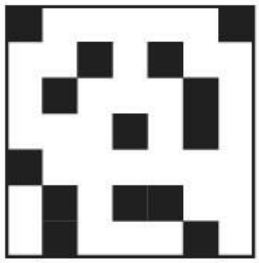
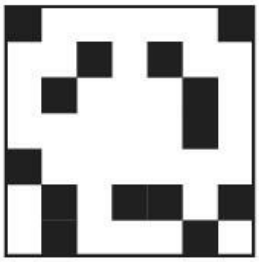
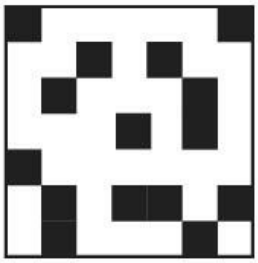
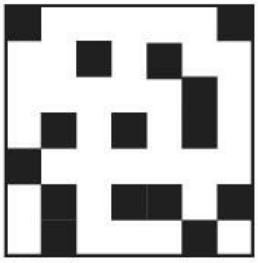
Topic Name: Aptitude Test – Part II

ItemCode:100460

Select the answer figure which shows **correct** view of question figure after rotating it by 90° on it's right.

Question:

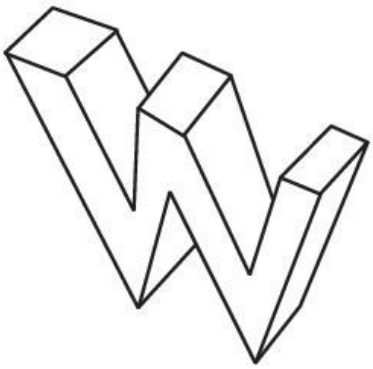


A	
B	
C	
D	

Q:61
Topic Name: Aptitude Test – Part II

ItemCode:100461

Identify the number of surfaces in the Figure.



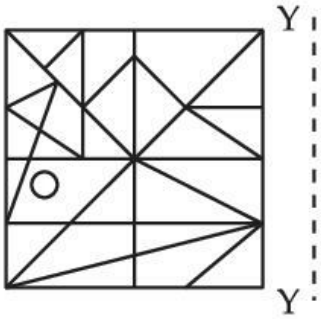
Question:

A	15
B	21
C	13
D	19

Q:62
Topic Name: Aptitude Test – Part II

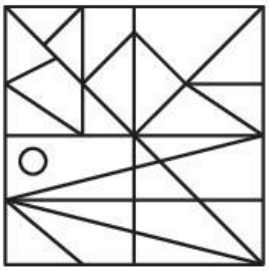
ItemCode:100462

Which of the following answer figure is the **correct** mirror image of the problem figure with respect to Y-Y ?

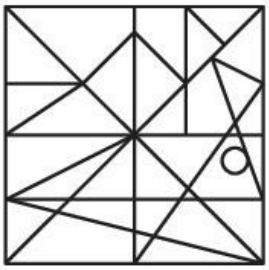


Question:

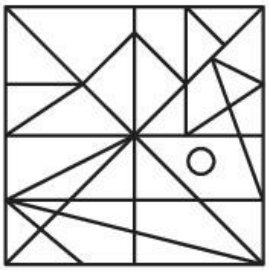
A



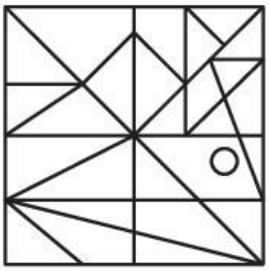
B



C



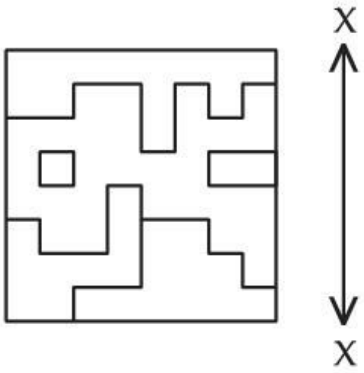
D



Q:63
Topic Name: Aptitude Test – Part II

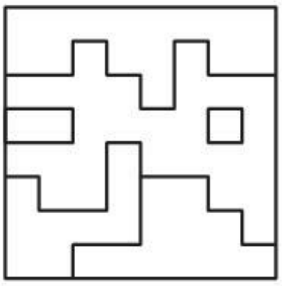
ItemCode:100463

Which of the following answer figure is the **correct** mirror image of the problem figure with respect to 'X-X' ?

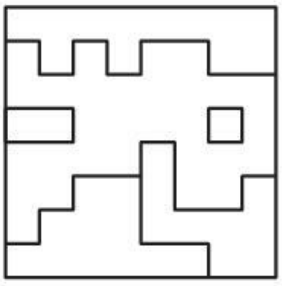


Question:

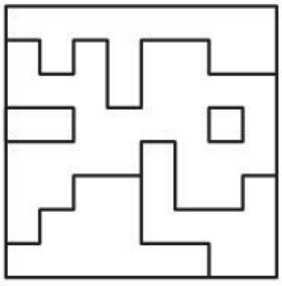
A



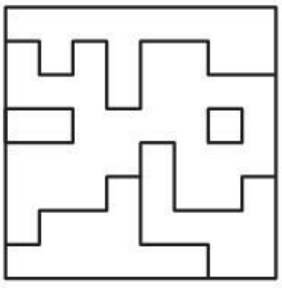
B



C



D

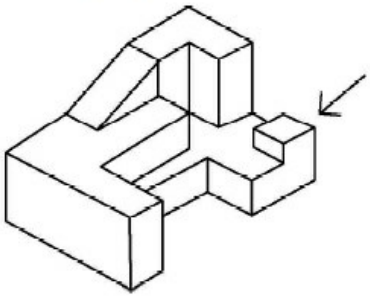


Q:64

Topic Name: Aptitude Test – Part II

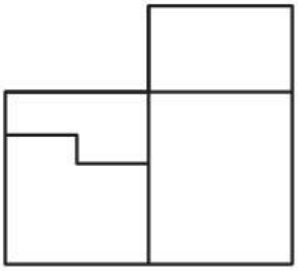
ItemCode:100464

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

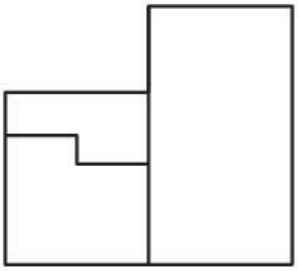


Question:

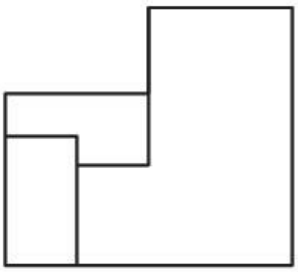
A



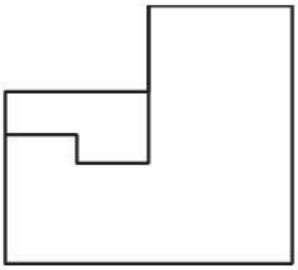
B



C



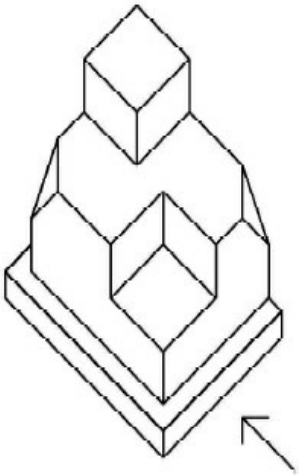
D



Q:65
Topic Name: Aptitude Test – Part II

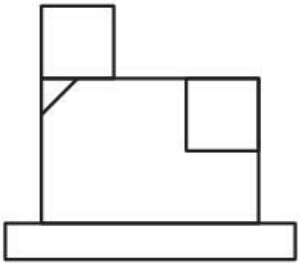
ItemCode:100465

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

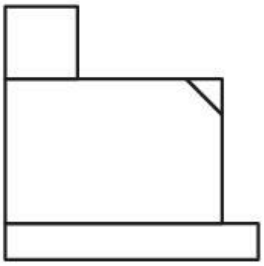


Question:

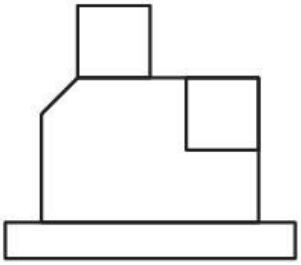
A



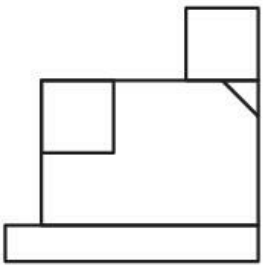
B



C



D

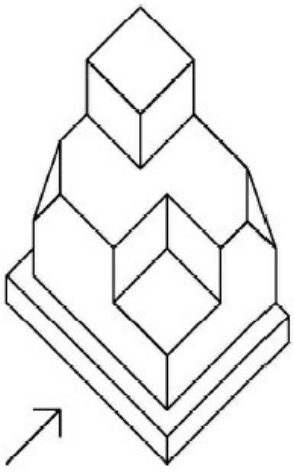


Q:66
Topic Name: Aptitude Test – Part II

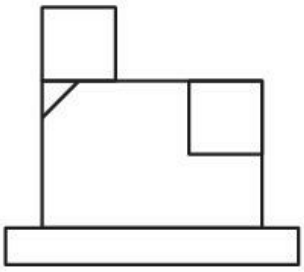
ItemCode:100466

Question figure shows 3D view of an object. Looking in the direction of arrow, identify the **most appropriate** elevation from answer figures.

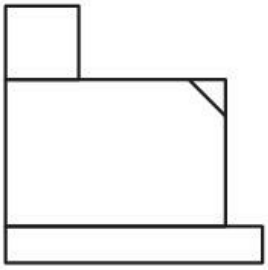
Question:



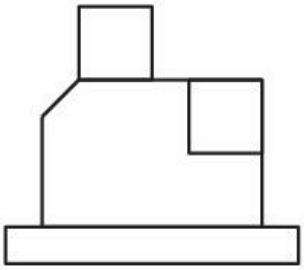
A



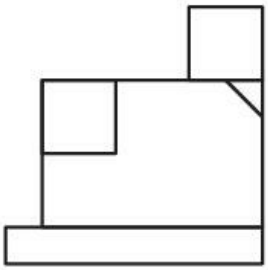
B



C



D

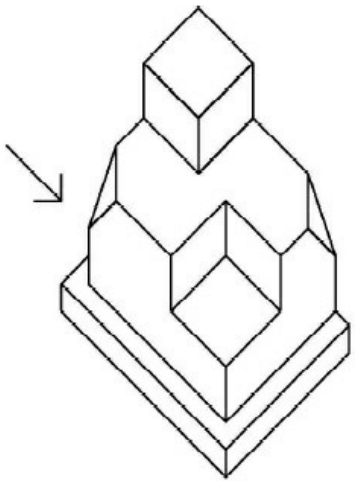


Q:67

Topic Name: Aptitude Test – Part II

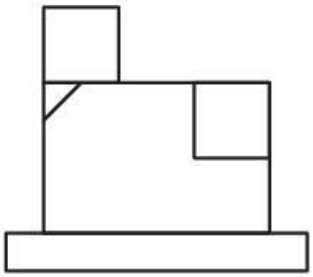
ItemCode:100467

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

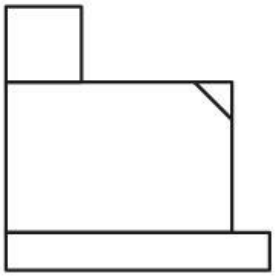


Question:

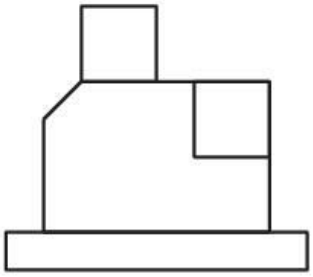
A



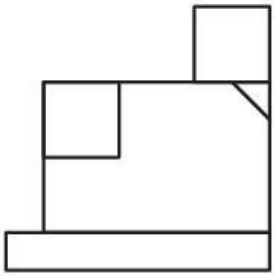
B



C



D

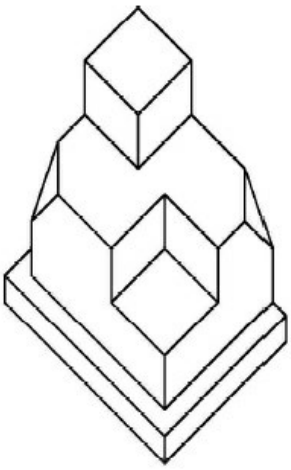


Q:68

Topic Name: Aptitude Test – Part II

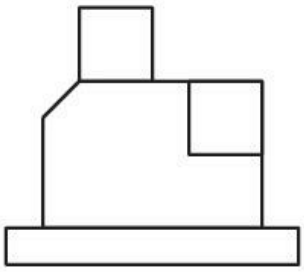
ItemCode:100468

The problem figure shows the 3D view of an object. Identify the **most appropriate** top view, amongst the answer figures.

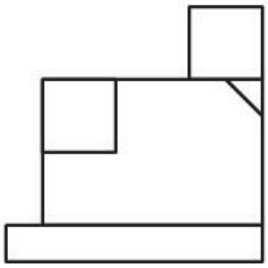


Question:

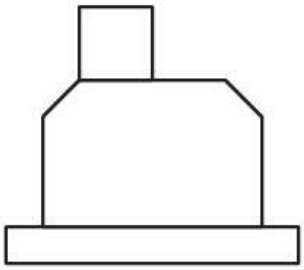
A



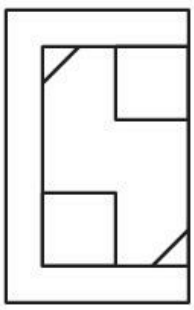
B



C



D

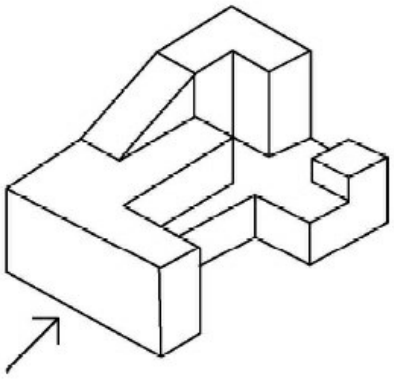


Q:69

Topic Name: Aptitude Test – Part II

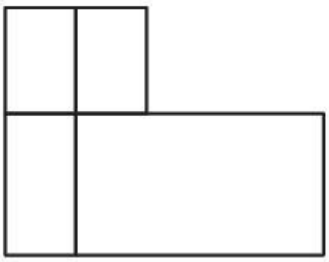
ItemCode:100469

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



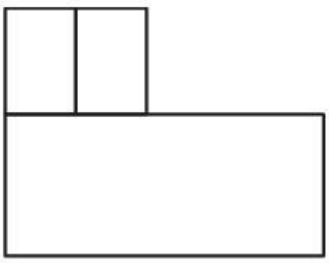
Question:

A

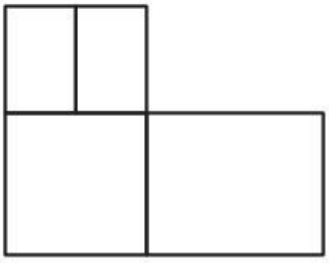


B

C



D

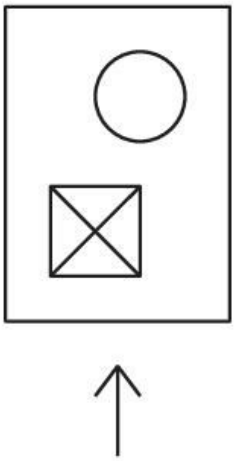


Q:70

Topic Name: Aptitude Test – Part II

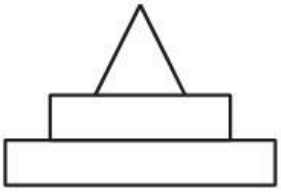
ItemCode:100470

Question image shows the top view of an object. Looking in the direction of arrow, identify the **correct** elevation from answer figures.

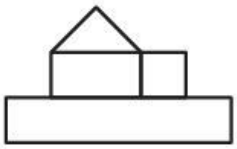


Question:

A

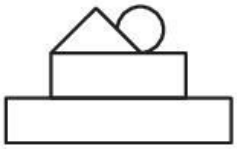


B



C

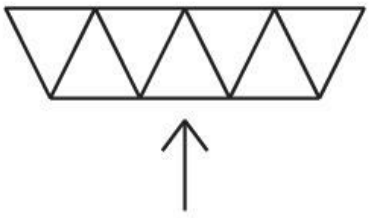
D



Q:71
Topic Name: Aptitude Test – Part II

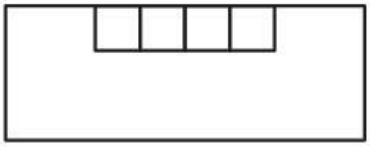
ItemCode:100471

Question figure shows plan of an object. Looking in the direction of arrow, identify the **correct** possible elevation from given answer figures.

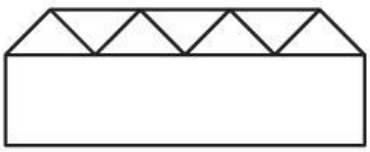


Question:

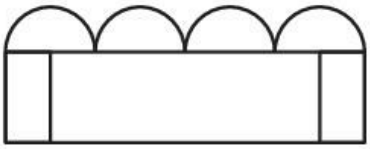
A



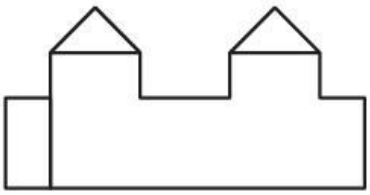
B



C



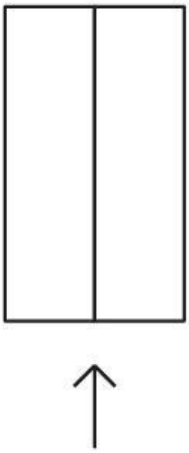
D



Q:72
Topic Name: Aptitude Test – Part II

ItemCode:100472

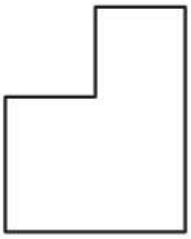
Question figure shows plan of an object. Looking in the direction of arrow, identify the 'INCORRECT' option from given possible elevations in answer figures.



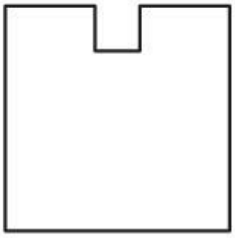
Question:

A

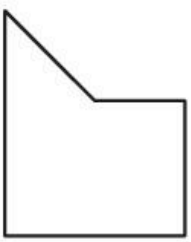
B



C



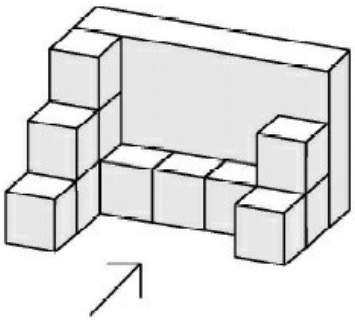
D



Q:73
Topic Name: Aptitude Test – Part II

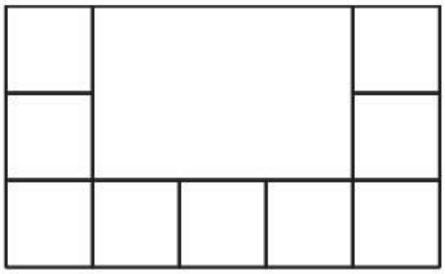
ItemCode:100473

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

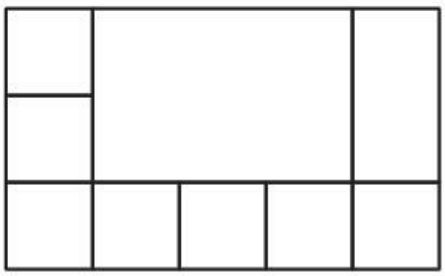


Question:

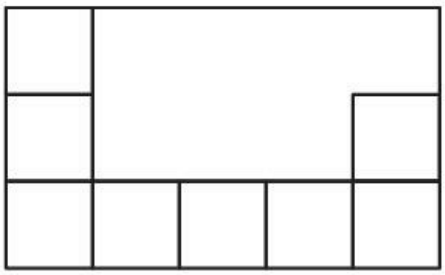
A



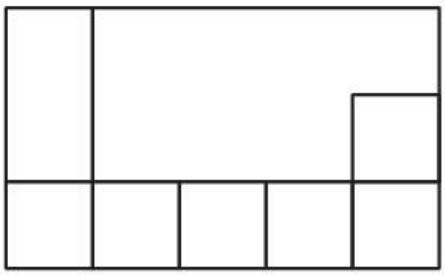
B



C



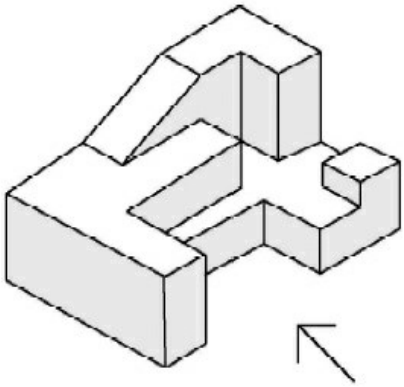
D



Q:74
Topic Name: Aptitude Test – Part II

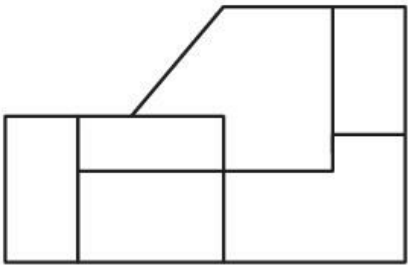
ItemCode:100474

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

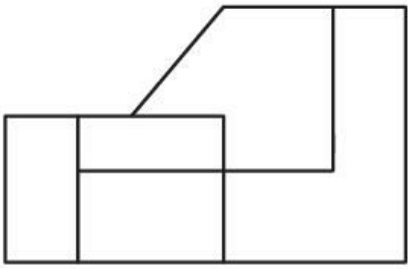


Question:

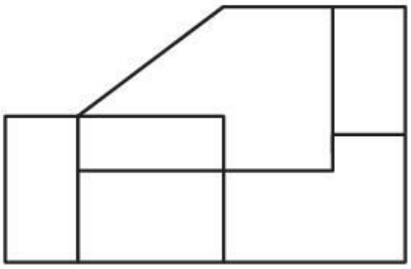
A



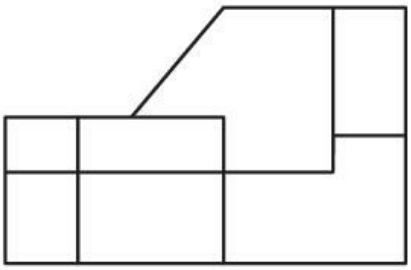
B



C



D

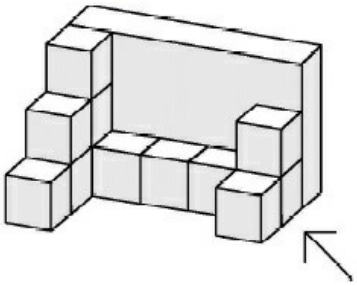


Q:75

Topic Name: Aptitude Test – Part II

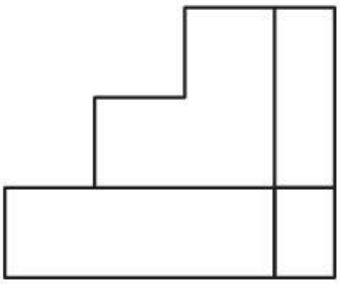
ItemCode:100475

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

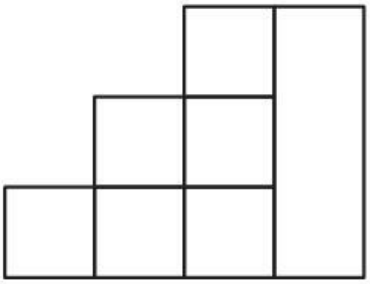


Question:

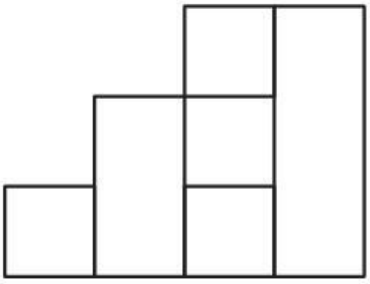
A



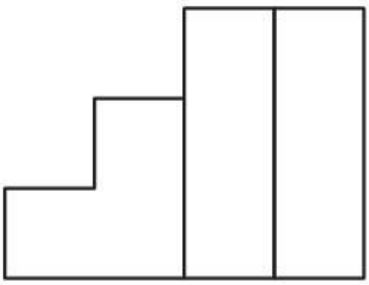
B



C



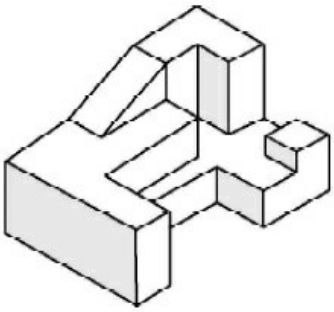
D



Q:76
Topic Name: Aptitude Test – Part II

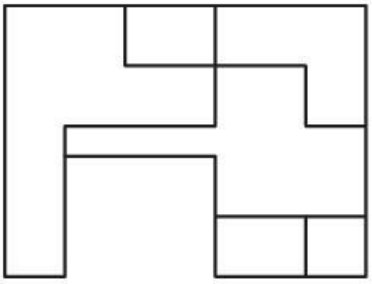
ItemCode:100476

Question figure shows the 3D view of an object. Identify the **most appropriate** top view/ plan of a given object from answer figures.

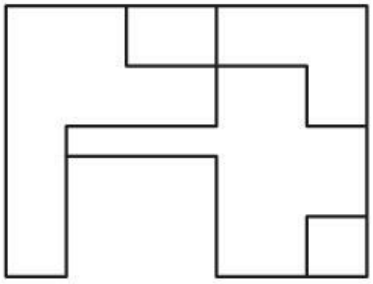


Question:

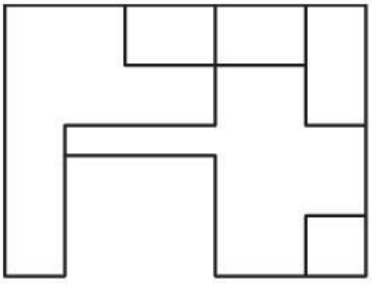
A



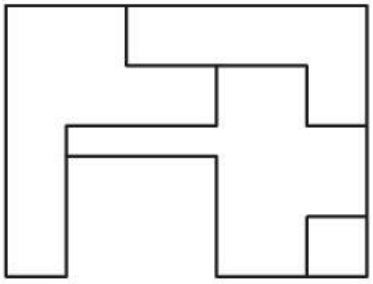
B



C



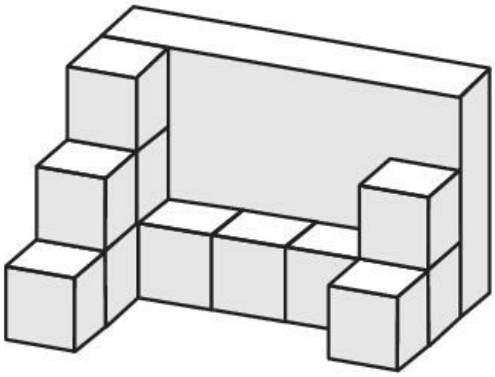
D



Q:77
Topic Name: Aptitude Test – Part II

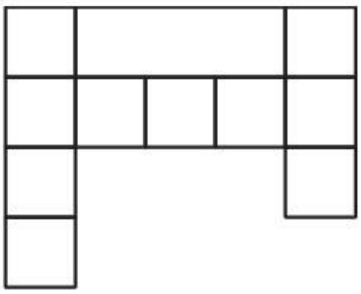
ItemCode:100477

Question figure shows 3D view of an object. Identify the **correct** top view/plan of a given object from answer figures.

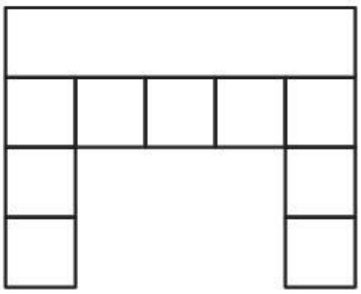


Question:

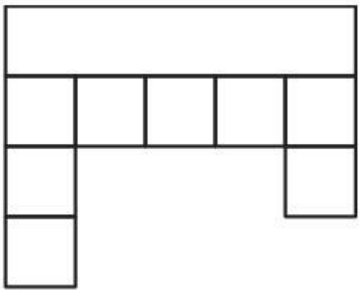
A



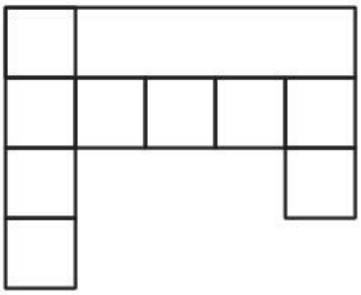
B



C



D

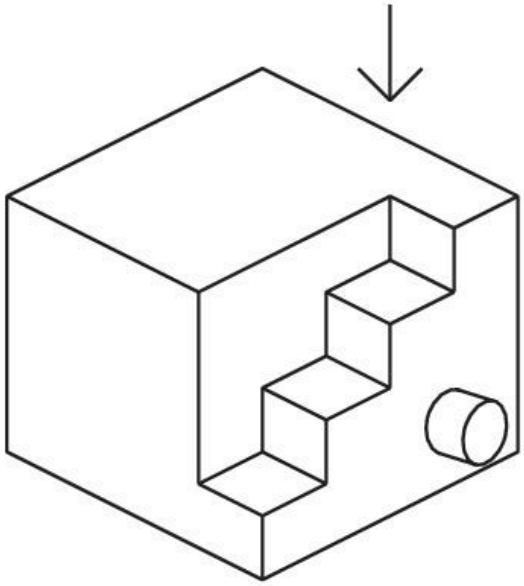


Q:78

Topic Name: Aptitude Test – Part II

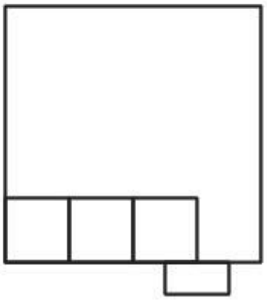
ItemCode:100478

Question figure shows 3D view of an object. Identify the **correct** top view/plan of a given object from answer figures.

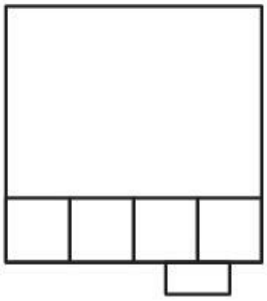


Question:

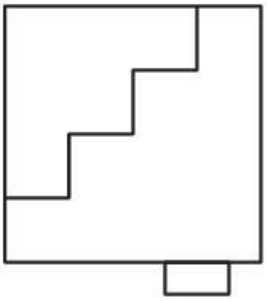
A



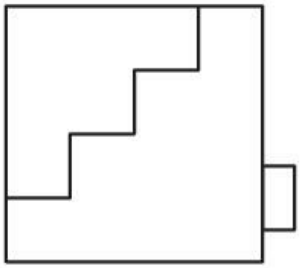
B



C



D

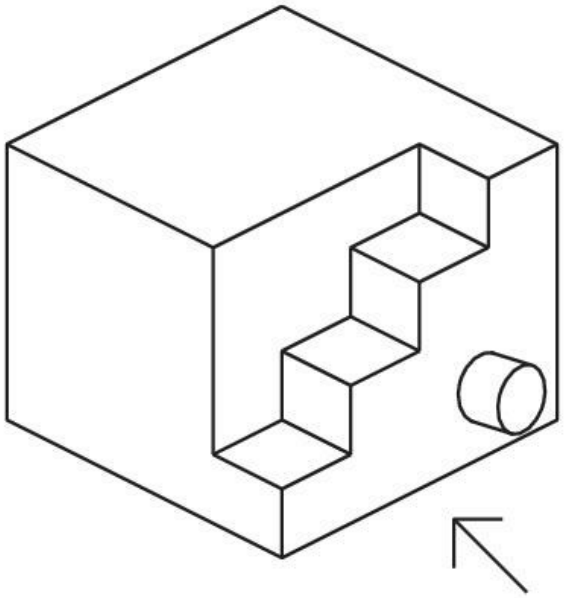


Q:79

Topic Name: Aptitude Test – Part II

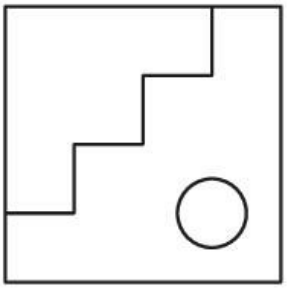
ItemCode:100479

Question figure shows 3D view of an object. Looking in the direction of arrow, identify the **correct** elevation from given answer figures.

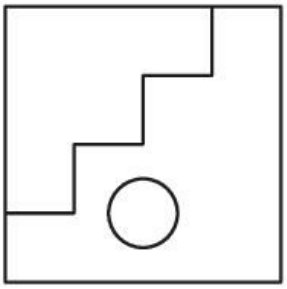


Question:

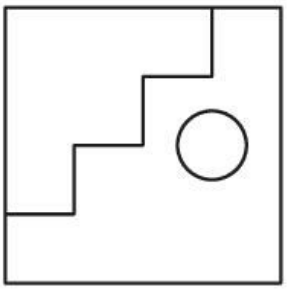
A



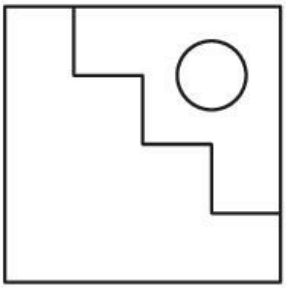
B



C



D

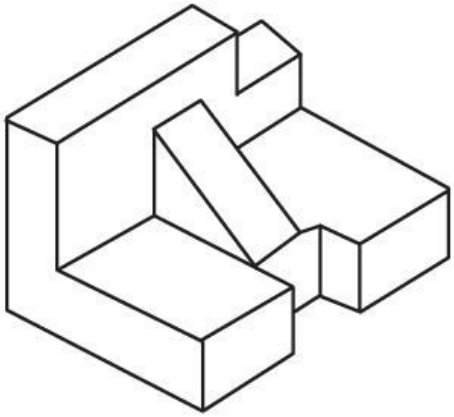


Q:80

Topic Name: Aptitude Test – Part II

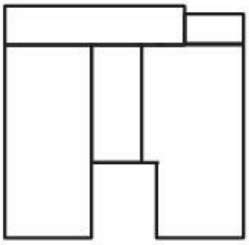
ItemCode:100480

Question figure shows 3D view of an object. Identify the **correct** top view/plan of a given object from answer figures.

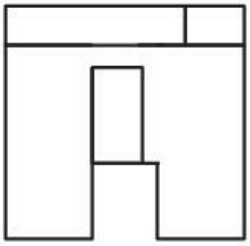


Question:

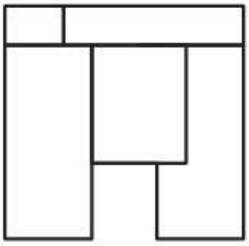
A



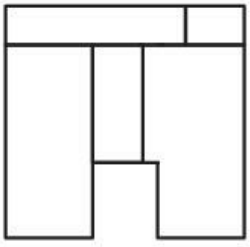
B



C



D



Q:81
Topic Name: Drawing Test – Part III

ItemCode:100506

Question:

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

Q:82

Topic Name: Drawing Test – Part III

ItemCode:100507

Question:

Attempt **any one** of the following questions.

(A) Draw a scene of holi festival. Use colours of your choice to render the drawing.

OR

(B) Using triangles and rectangles of your choice, create a composition which may reflect 'RHYTHM'. Colour the composition using 'Cool Colour' scheme.