

Q:1

Topic Name:Mathematics – Part I-Section A

ItemCode:111

Let  $\alpha$  be a root of the equation  $1 + x^2 + x^4 = 0$ .Question: Then the value of  $\alpha^{1011} + \alpha^{2022} - \alpha^{3033}$  is equal to :

- A 1
- B  $\alpha$
- C  $1 + \alpha$
- D  $1 + 2\alpha$

Q:2

Topic Name:Mathematics – Part I-Section A

ItemCode:112

Let  $\arg(z)$  represent the principal argument of the complex number  $z$ .Question: Then,  $|z| = 3$  and  $\arg(z - 1) - \arg(z + 1) = \frac{\pi}{4}$  intersect

- A exactly at one point.
- B exactly at two points.
- C nowhere.
- D at infinitely many points.

Q:3

Topic Name:Mathematics – Part I-Section A

ItemCode:113

Let  $A = \begin{pmatrix} 2 & -1 \\ 0 & 2 \end{pmatrix}$ . If  $B = I - {}^5C_1(\text{adj}A) + {}^5C_2(\text{adj}A)^2 - \dots - {}^5C_5(\text{adj}A)^5$ , then theQuestion: sum of all elements of the matrix  $B$  is

- A -5
- B -6
- C -7
- D -8

Q:4

Topic Name:Mathematics – Part I-Section A

ItemCode:114

The sum of the infinite series  $1 + \frac{5}{6} + \frac{12}{6^2} + \frac{22}{6^3} + \frac{35}{6^4} + \frac{51}{6^5} + \frac{70}{6^6} + \dots$ 

Question: is equal to:

- A  $\frac{425}{216}$
- B  $\frac{429}{216}$
- C  $\frac{288}{125}$
- D  $\frac{280}{125}$

Q:5

ItemCode:115

The value of  $\lim_{x \rightarrow 1} \frac{(x^2 - 1)\sin^2(\pi x)}{x^4 - 2x^3 + 2x - 1}$

Question: is equal to:

A  $\frac{\pi^2}{6}$

B  $\frac{\pi^2}{3}$

C  $\frac{\pi^2}{2}$

D  $\pi^2$

Q:6

Topic Name: Mathematics – Part I-Section A

ItemCode:116

Let  $f : \mathbb{R} \rightarrow \mathbb{R}$  be a function defined by  $f(x) = (x - 3)^{n_1}(x - 5)^{n_2}$ ,  $n_1, n_2 \in \mathbb{N}$ .

Question: Then, which of the following is NOT true?

A For  $n_1 = 3, n_2 = 4$ , there exists  $\alpha \in (3, 5)$  where  $f$  attains local maxima.

B For  $n_1 = 4, n_2 = 3$ , there exists  $\alpha \in (3, 5)$  where  $f$  attains local minima.

C For  $n_1 = 3, n_2 = 5$ , there exists  $\alpha \in (3, 5)$  where  $f$  attains local maxima.

D For  $n_1 = 4, n_2 = 6$ , there exists  $\alpha \in (3, 5)$  where  $f$  attains local maxima.

Q:7

Topic Name: Mathematics – Part I-Section A

ItemCode:117

Let  $f$  be a real valued continuous function on  $[0, 1]$  and

$$f(x) = x + \int_0^1 (x-t)f(t)dt.$$

Question: Then, which of the following points  $(x, y)$  lies on the curve  $y = f(x)$ ?

A (2, 4)

B (1, 2)

C (4, 17)

D (6, 8)

Q:8

Topic Name: Mathematics – Part I-Section A

ItemCode:118

If  $\int_0^2 (\sqrt{2x} - \sqrt{2x-x^2}) dx = \int_0^1 \left(1 - \sqrt{1-y^2} - \frac{y^2}{2}\right) dy + \int_1^2 \left(2 - \frac{y^2}{2}\right) dy + I$

Question: then  $I$  equals

A  $\int_0^1 (1 + \sqrt{1-y^2}) dy$

B  $\int_0^1 \left(\frac{y^2}{2} - \sqrt{1-y^2} + 1\right) dy$

C  $\int_0^1 (1 - \sqrt{1-y^2}) dy$

D  $\int_0^1 \left( \frac{y^2}{2} + \sqrt{1-y^2} + 1 \right) dy$

Q:9

Topic Name: Mathematics – Part I-Section A

ItemCode: 119

If  $y = y(x)$  is the solution of the differential equation

$$(1 + e^{2x}) \frac{dy}{dx} + 2(1 + y^2)e^x = 0 \text{ and } y(0) = 0, \text{ then}$$

$$6 \left\{ y'(0) + \left( y(\log_e \sqrt{3}) \right)^2 \right\} \text{ is equal to}$$

Question:

- A 2
- B -2
- C -4
- D -1

Q:10

Topic Name: Mathematics – Part I-Section A

ItemCode: 1110

Let  $P : y^2 = 4ax, a > 0$  be a parabola with focus S. Let the tangents to the parabola

P make an angle of  $\frac{\pi}{4}$  with the line  $y = 3x + 5$  touch the parabola P at A and B.

Question: Then the value of  $a$  for which A, B and S are collinear is

- A 8 only
- B 2 only
- C  $\frac{1}{4}$  only
- D any  $a > 0$

Q:11

Topic Name: Mathematics – Part I-Section A

ItemCode: 1111

Let a triangle  $ABC$  be inscribed in the circle  $x^2 - \sqrt{2}(x + y) + y^2 = 0$  such that

Question:  $\angle BAC = \frac{\pi}{2}$ . If the length of side  $AB$  is  $\sqrt{2}$ , then the area of the  $\Delta ABC$  is equal to :

- A  $(\sqrt{2} + \sqrt{6})/3$
- B  $(\sqrt{6} + \sqrt{3})/2$
- C  $(3 + \sqrt{3})/4$
- D  $(\sqrt{6} + 2\sqrt{3})/4$

Q:12

Topic Name: Mathematics – Part I-Section A

ItemCode: 1112

Let  $\frac{x-2}{3} = \frac{y+1}{-2} = \frac{z+3}{-1}$  lie on the plane  $px - qy + z = 5$ , for some  $p, q \in \mathbb{R}$ . The

Question: shortest distance of the plane from the origin is:

- A  $\sqrt{\frac{3}{109}}$
- B  $\sqrt{\frac{5}{142}}$

C  $\frac{5}{\sqrt{71}}$

D  $\frac{1}{\sqrt{142}}$

Q:13

Topic Name: Mathematics – Part I-Section A

ItemCode: 1113

The distance of the origin from the centroid of the triangle whose two sides have the equations

$x - 2y + 1 = 0$  and  $2x - y - 1 = 0$  and whose orthocenter is  $\left(\frac{7}{3}, \frac{7}{3}\right)$  is:

Question:

A  $\sqrt{2}$

B 2

C  $2\sqrt{2}$

D 4

Q:14

Topic Name: Mathematics – Part I-Section A

ItemCode: 1114

Let Q be the mirror image of the point P(1, 2, 1) with respect to the plane  $x + 2y + 2z = 16$ . Let T be a plane passing through the point Q and contains the

line  $\vec{r} = -\hat{k} + \lambda(\hat{i} + \hat{j} + 2\hat{k}), \lambda \in \mathbb{R}$ . Then, which of the following points lies on T?

Question:

A (2, 1, 0)

B (1, 2, 1)

C (1, 2, 2)

D (1, 3, 2)

Q:15

Topic Name: Mathematics – Part I-Section A

ItemCode: 1115

Let A, B, C be three points whose position vectors respectively are

$$\vec{a} = \hat{i} + 4\hat{j} + 3\hat{k}$$

$$\vec{b} = 2\hat{i} + \alpha\hat{j} + 4\hat{k}, \alpha \in \mathbb{R}$$

$$\vec{c} = 3\hat{i} - 2\hat{j} + 5\hat{k}$$

If  $\alpha$  is the smallest positive integer for which  $\vec{a}, \vec{b}, \vec{c}$  are noncollinear, then the

Question: length of the median, in  $\Delta ABC$ , through A is :

A  $\frac{\sqrt{82}}{2}$

B  $\frac{\sqrt{62}}{2}$

C  $\frac{\sqrt{69}}{2}$

D  $\frac{\sqrt{66}}{2}$

Q:16

Topic Name: Mathematics – Part I-Section A

ItemCode:1116

The probability that a relation R from  $\{x, y\}$  to  $\{x, y\}$  is both symmetric and

Question: transitive, is equal to

A  $\frac{5}{16}$

B  $\frac{9}{16}$

C  $\frac{11}{16}$

D  $\frac{13}{16}$

Q:17

Topic Name:Mathematics – Part I-Section A

ItemCode:1117

The number of values of  $a \in \mathbb{N}$  such that the variance of 3, 7, 12,  $a$ ,  $43 - a$  is a

Question: natural number is:

A 0

B 2

C 5

D infinite

Q:18

Topic Name:Mathematics – Part I-Section A

ItemCode:1118

From the base of a pole of height 20 meter, the angle of elevation of the top of a tower is  $60^\circ$ . The pole subtends an angle  $30^\circ$  at the top of the tower. Then the

Question: height of the tower is:

A  $15\sqrt{3}$

B  $20\sqrt{3}$

C  $20 + 10\sqrt{3}$

D 30

Q:19

Topic Name:Mathematics – Part I-Section A

ItemCode:1119

Question: Negation of the Boolean statement  $(p \vee q) \Rightarrow ((\sim r) \vee p)$  is equivalent to

A  $p \wedge (\sim q) \wedge r$

B  $(\sim p) \wedge (\sim q) \wedge r$

C  $(\sim p) \wedge q \wedge r$

D  $p \wedge q \wedge (\sim r)$

Q:20

Topic Name:Mathematics – Part I-Section A

ItemCode:1120

Let  $n \geq 5$  be an integer. If  $9^n - 8n - 1 = 64\alpha$  and  $6^n - 5n - 1 = 25\beta$ , then  $\alpha - \beta$  is

Question: equal to

A  $1 + {}^nC_2(8-5) + {}^nC_3(8^2-5^2) + \dots + {}^nC_n(8^{n-1}-5^{n-1})$

B  $1 + {}^nC_3(8-5) + {}^nC_4(8^2-5^2) + \dots + {}^nC_n(8^{n-2}-5^{n-2})$

C  ${}^nC_3(8-5) + {}^nC_4(8^2-5^2) + \dots + {}^nC_n(8^{n-2}-5^{n-2})$

D  ${}^nC_4(8-5) + {}^nC_5(8^2-5^2) + \dots + {}^nC_n(8^{n-3}-5^{n-3})$

Q:21

ItemCode: 1121

Let  $\vec{a} = \hat{i} - 2\hat{j} + 3\hat{k}$ ,  $\vec{b} = \hat{i} + \hat{j} + \hat{k}$  and  $\vec{c}$  be a vector such that  $\vec{a} + (\vec{b} \times \vec{c}) = \vec{0}$  and

Question:  $\vec{b} \cdot \vec{c} = 5$ . Then, the value of  $3(\vec{c} \cdot \vec{a})$  is equal to \_\_\_.

Q:22

Topic Name: Mathematics – Part I-Section B

ItemCode: 1122

Let  $y = y(x)$ ,  $x > 1$ , be the solution of the differential equation

$(x-1)\frac{dy}{dx} + 2xy = \frac{1}{x-1}$ , with  $y(2) = \frac{1+e^4}{2e^4}$ . If  $y(3) = \frac{e^\alpha + 1}{\beta e^\alpha}$ , then the value of

Question:  $\alpha + \beta$  is equal to \_\_\_.

Q:23

Topic Name: Mathematics – Part I-Section B

ItemCode: 1123

Let 3, 6, 9, 12, ... upto 78 terms and 5, 9, 13, 17, ... upto 59 terms be two series.

Question: Then, the sum of the terms common to both the series is equal to \_\_\_.

Q:24

Topic Name: Mathematics – Part I-Section B

ItemCode: 1124

Question: The number of solutions of the equation  $\sin x = \cos^2 x$  in the interval  $(0, 10)$  is \_\_\_.

Q:25

Topic Name: Mathematics – Part I-Section B

ItemCode: 1125

For real numbers  $a, b$  ( $a > b > 0$ ), let

Area  $\left\{ (x, y) : x^2 + y^2 \leq a^2 \text{ and } \frac{x^2}{a^2} + \frac{y^2}{b^2} \geq 1 \right\} = 30\pi$

and

Area  $\left\{ (x, y) : x^2 + y^2 \geq b^2 \text{ and } \frac{x^2}{a^2} + \frac{y^2}{b^2} \leq 1 \right\} = 18\pi$

Question: Then the value of  $(a-b)^2$  is equal to \_\_\_.

Q:26

Topic Name: Mathematics – Part I-Section B

ItemCode: 1126

Let  $f$  and  $g$  be twice differentiable even functions on  $(-2, 2)$  such that

$f\left(\frac{1}{4}\right) = 0, f\left(\frac{1}{2}\right) = 0, f(1) = 1$  and  $g\left(\frac{3}{4}\right) = 0, g(1) = 2$

Then, the minimum number of solutions of  $f(x)g''(x) + f'(x)g'(x) = 0$  in  $(-2, 2)$  is

Question: equal to \_\_\_.

Q:27

Topic Name: Mathematics – Part I-Section B

ItemCode: 1127

Let the coefficients of  $x^{-1}$  and  $x^{-3}$  in the expansion of  $\left(2x^{\frac{1}{5}} - \frac{1}{x^{\frac{1}{5}}}\right)^{15}$ ,  $x > 0$ , be  $m$

and  $n$  respectively. If  $r$  is a positive integer such that  $mn^2 = {}^{15}C_r \cdot 2^r$ , then the

Question: value of  $r$  is equal to \_\_\_.

Q:28

ItemCode: 1128

The total number of four digit numbers such that each of first three digits is divisible by the last digit, is equal to \_\_\_\_\_.

Q:29

Topic Name: Mathematics – Part I-Section B

ItemCode: 1129

Let  $M = \begin{bmatrix} 0 & -\alpha \\ \alpha & 0 \end{bmatrix}$ , where  $\alpha$  is a non-zero real number and  $N = \sum_{k=1}^{49} M^{2k}$ . If

Question:  $(I - M^2)N = -2I$ , then the positive integral value of  $\alpha$  is \_\_\_\_.

Q:30

Topic Name: Mathematics – Part I-Section B

ItemCode: 1130

Let  $f(x)$  and  $g(x)$  be two real polynomials of degree 2 and 1 respectively. If  $f(g(x)) = 8x^2 - 2x$ , and  $g(f(x)) = 4x^2 + 6x + 1$ , then the value of  $f(2) + g(2)$  is

Question: \_\_\_\_\_.

Q:31

Topic Name: Aptitude Test – Part II

ItemCode: 41131

Question: Which one of the following is the tallest Dam in India?

- A Tehri Dam
- B Bhakra Dam
- C Hirakund Dam
- D Sardar Sarowar Dam

Q:32

Topic Name: Aptitude Test – Part II

ItemCode: 41132

Question: Jawahar Kala Kendra (J.K.K.) in Jaipur was designed by which Architect ?

- A Raj Rewal
- B Charles Correa
- C B. V. Doshi
- D Christopher Charles Benninger

Q:33

Topic Name: Aptitude Test – Part II

ItemCode: 41133

Arrange the following house spaces in a logical order of access by users

- (a). Entrance Porch / Verandah
- (b). Toilet
- (c). Room space
- (d). Entrance Lobby (Indoor)

Question: (d). Entrance Lobby (Indoor)

- A (d) → (a) → (b) → (c)
- B (a) → (c) → (d) → (b)
- C (a) → (d) → (c) → (b)
- D (d) → (b) → (a) → (c)

Q:34

Topic Name: Aptitude Test – Part II

ItemCode:41134

Match List I with List II

List I

- A. Bibi ka Maqbara
- B. Adhai Din ka Jhopda
- C. Rani ki Badi

List II (Cities)

- I. Ajmer
- II. Agra
- III. Aurangabad
- IV. Bundi

Question: D. Chini ka Rauza

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

Q:35

Topic Name:Aptitude Test – Part II

ItemCode:41135

Match List I with List II

List I

- A. Baba Saheb
- B. Bapu
- C. Frontier Gandhi
- D. Gurudev

List II

- I. Rabindranath Tagore
- II. Abdul Ghaffar Khan
- III. B. R. Ambedkar
- IV. Mohan Das Karamchand Gandhi

Question:

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

Q:36

Topic Name:Aptitude Test – Part II

ItemCode:41136

Match List I with List II

List I

- A. Koti Banal
- B. Bhunga
- C. Chittillu

List II

- I. Gujarat
- II. Assam
- III. Uttarkhand
- IV. Andhra Pradesh

Question: D. Ekra

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

Q:37

Topic Name:Aptitude Test – Part II

ItemCode:41137

From the following types of lines, which one is used to represent elements hidden

Question: or removed from our view.

- A Grid Lines
- B Solid Lines
- C Continuous Lines
- D Dashed Lines



Q:38  
Topic Name:Aptitude Test – Part II

ItemCode:41138

Question: Jahaz Mahal is located in which city of Madhya Pradesh ?

- A Maheshwar
- B Chanderi
- C Mandu
- D Khajuraho

Q:39

Topic Name:Aptitude Test – Part II

ItemCode:41139

Question: Which of the following is an example of cultural landscape ?

- A Bhimbetka Caves
- B Ajantha Caves
- C Elephanta Caves
- D Barabar Caves

Q:40

Topic Name:Aptitude Test – Part II

ItemCode:41140

Question: Which of the following colour is obtained by mixing of Red and Blue colour ?

- A Purple
- B Orange
- C Pink
- D Brown

Q:41

Topic Name:Aptitude Test – Part II

ItemCode:41141

Question: Which one of the famous Architect Designed White House in Washington D.C.

- A Robert Mills
- B Pierre Charles L'Enfant
- C James Hoban
- D Benjamin Latrobe

Q:42

Topic Name:Aptitude Test – Part II

ItemCode:41142

Question: Which of the following Indian state does not have any UNESCO world heritage site till December, 2021?

- A Rajasthan
- B Telangana
- C Sikkim
- D Haryana

Q:43

Topic Name:Aptitude Test – Part II

ItemCode:41143

Question: Which amongst these place have the oldest cave paintings in India ?

- A Badami Caves

B	Sanchi
C	Bhimbetka
D	Sarnath

Q:44

Topic Name:Aptitude Test – Part II

ItemCode:41144

Question:In which state 'Adalaj Vav' is located ?

- |   |                |
|---|----------------|
| A | Madhya Pradesh |
| B | Rajasthan      |
| C | Maharashtra    |
| D | Gujarat        |

Q:45

Topic Name:Aptitude Test – Part II

ItemCode:41145

Question:The famous 'Piazza della signoria' is located in which city ?

- |   |          |
|---|----------|
| A | Venice   |
| B | Milan    |
| C | Florence |
| D | Paris    |

Q:46

Topic Name:Aptitude Test – Part II

ItemCode:41146

As of Jan. 2022 which of the following building is recorded as a tallest building of India ?

- |   |                   |
|---|-------------------|
| A | World view        |
| B | Lodha Trump Tower |
| C | Palais Royale     |
| D | World One         |

Q:47

Topic Name:Aptitude Test – Part II

ItemCode:41147

Question:Which Indian Architect is awarded with RIBA Royal Gold Medal 2022 ?

- |   |                |
|---|----------------|
| A | B. V. Doshi    |
| B | Revathi Kamath |
| C | Brinda Somaya  |
| D | Rahul Mehrotra |

Q:48

Topic Name:Aptitude Test – Part II

ItemCode:41148

Question:What is the height of world's tallest statue "The statue of Unity" ?

- |   |       |
|---|-------|
| A | 150 m |
| B | 597 m |
| C | 182 m |
| D | 251 m |

Q:49

ItemCode: 41149

Which Indian architect is the Author of book titled 'Laurie Bakar : Life, Works & Writings' ?

- A Gautam Bhatia
- B B. V. Doshi
- C Rajeev Garg
- D Sonia Mehta

Q:50

Topic Name: Aptitude Test – Part II

ItemCode: 41150

Persian garden concept of charbagh can be seen as a prominent landscape element in which of the following architecture style.

- A Mughal Architecture
- B Hindu Temple Architecture
- C Post Independence Architecture in India
- D Japanese landscape Architecture

Q:51

Topic Name: Aptitude Test – Part II

ItemCode: 41151

Match List I with List II

- | List I       | List II          |
|--------------|------------------|
| A. Jaisalmer | I. White City    |
| B. Jodhpur   | II. Blue City    |
| C. Jaipur    | III. Golden City |
| D. Udaipur   | IV. Pink City    |

- Question:
- A A-II, B-III, C-IV, D-I
  - B A-III, B-I, C-IV, D-II
  - C A-III, B-II, C-IV, D-I
  - D A-II, B-III, C-IV, D-I

Q:52

Topic Name: Aptitude Test – Part II

ItemCode: 41152

Match the architects with their buildings

- | List I            | List II                   |
|-------------------|---------------------------|
| A. Charles Correa | I. Tagore Memorial Hall   |
| B. Raj Rewal      | II. Dudhsagar Dairy Plant |
| C. A.P. Kanvinde  | III. Gandhi Ashram        |
| D. B. V. Doshi    | IV. Asian Games Village   |

- Question:
- A A-II, B-I, C-III, D-IV
  - B A-III, B-II, C-I, D-IV
  - C A-IV, B-III, C-I, D-II
  - D A-III, B-IV, C-II, D-I

Q:53

Topic Name: Aptitude Test – Part II

ItemCode:41153

Match List I with List II

List I	List II
A. Patna	I. Golkonda Fort
B. Bijapur	II. Elephanta Caves
C. Mumbai	III. Gol Gumbaz
D. Hyderabad	IV. Gol Ghar

Question:

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

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

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

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

Q:54

Topic Name:Aptitude Test – Part II

ItemCode:41154

Match List I with List II

List I	List II
A. Hoysalas	I. Indo Islamic Architecture
B. Trabeation	II. Mosque
C. Calligraphy	III. Karnataka
D. Hammams	IV. Flat roof

Question:

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

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

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

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

Q:55

Topic Name:Aptitude Test – Part II

ItemCode:41155

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : Globally the frequency and Magnitude of disasters are rising significantly.

Reason R : Climate change is the cause of changes in natural landscape.

In the light of the above statements, choose most appropriate answer from options

Question: given below.

A Both A and R are correct, R is the correct explanation of A

B Both A and R are correct, R is not the correct explanation of A

C A is correct but R is not correct

D A is not correct but R is correct

Q:56

Topic Name:Aptitude Test – Part II

ItemCode:41156

Given below are two statements.

Statement I : Architect Otto Konigsberger planned the cities of Bhubaneswar and Gandhinagar.

Statement II : Architect Otto Konigsberger planned the city of Bhubaneswar.

In the light of the above statements, choose most appropriate answer from options

Question: given below.

A Both statement I and statement II are correct

B Both statement I and statement II are not correct

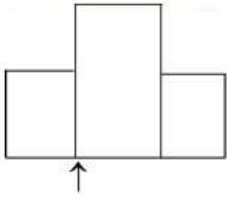
C Statement I is correct but statement II is not correct

Q:57

Topic Name:Aptitude Test – Part II

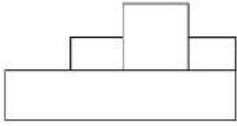
ItemCode:41157

The problem figure shows the top view of an object. Identify the most appropriate elevation looking in the direction of arrow, amongst the answer figures.



Question:

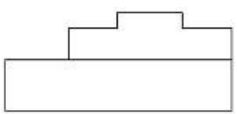
A



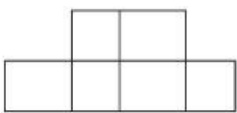
B



C



D

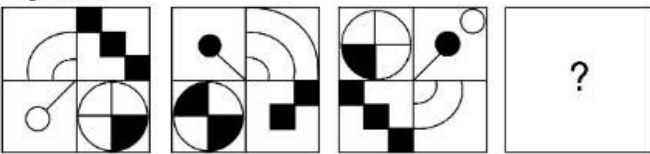


Q:58

Topic Name:Aptitude Test – Part II

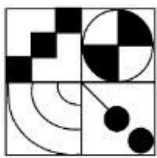
ItemCode:41158

Identify the correct image from the answer figures, which will complete the sequence.

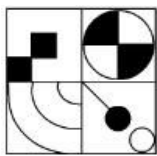


Question:

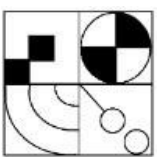
A



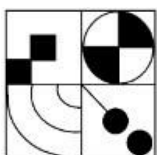
B



C



D

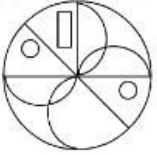


Q:59

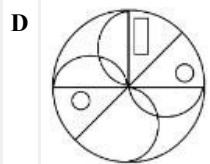
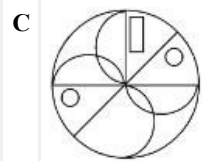
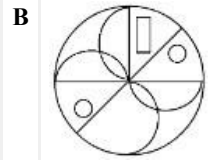
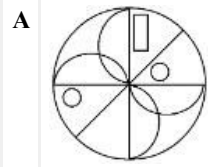
Topic Name:Aptitude Test – Part II

ItemCode:41159

Which one of the following answer figure is the most appropriate mirror image of the problem figure with respect to y-axis ?



Question:

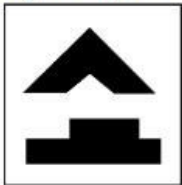


Q:60

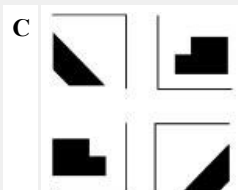
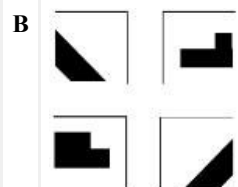
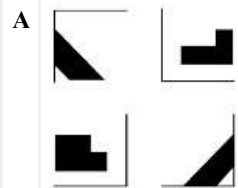
Topic Name:Aptitude Test – Part II

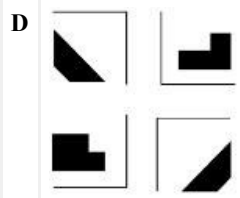
ItemCode:41160

Following answer figures shows the 4 parts of the question figure. Identify the most appropriate option which completes the image when you arrange it in correct logical sequence.



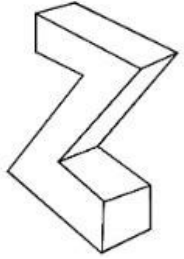
Question:





**Q:61**  
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41161  
 Identify the number of surfaces in the object/figure.

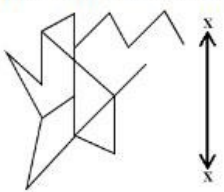


**Question:**

- A** 8
- B** 9
- C** 10
- D** 11

**Q:62**  
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41162  
 Which one of the following answer figure is most appropriate mirror image of the problem figure with respect x-x- axis.



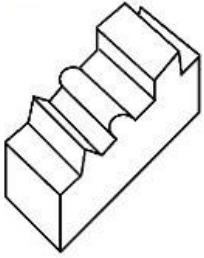
**Question:**

- A**
- B**
- C**
- D**

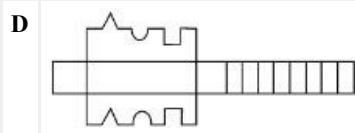
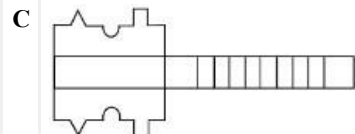
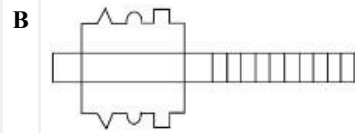
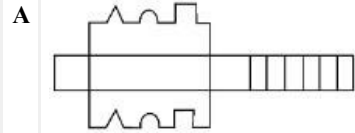
**Q:63**  
**Topic Name:** Aptitude Test – Part II

ItemCode:41163

The 3D figure shows the view of an object. Identify the correct view, when figure is opened up.



Question:

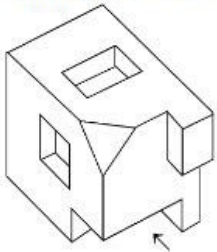


Q:64

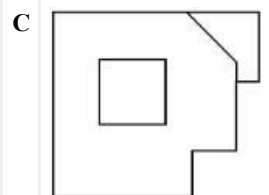
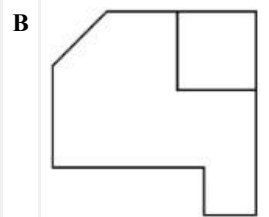
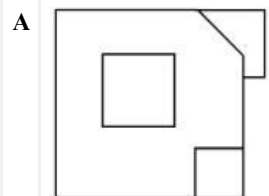
Topic Name:Aptitude Test – Part II

ItemCode:41164

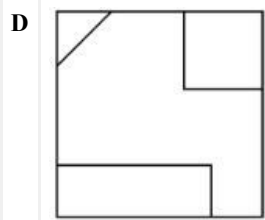
The 3D figure shows the view of an object. Identify the most appropriate view looking in the direction of given arrow amongst the answer figures.



Question:

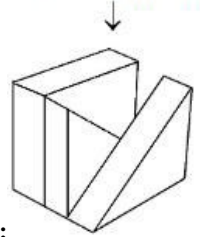




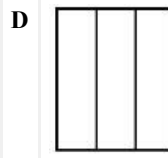
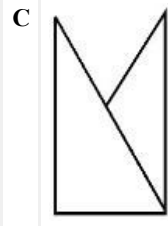
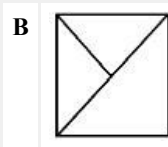
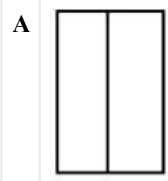


Q:65  
 Topic Name: Aptitude Test – Part II

ItemCode: 41165  
 Question figure shows the 3D view of an object. Looking in the direction of given arrow, identify the most appropriate view, amongst the answer figures.

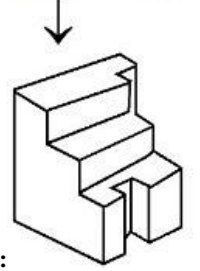


Question:

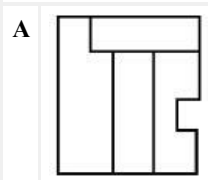


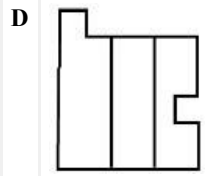
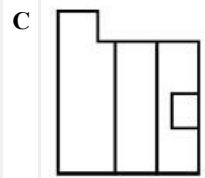
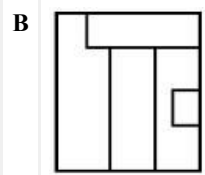
Q:66  
 Topic Name: Aptitude Test – Part II

ItemCode: 41166  
 The problem figure shows the 3D view of an object. Identify the correct top view, amongst the answer figures.



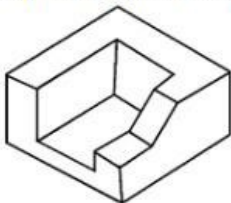
Question:



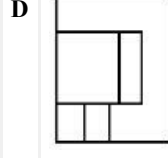
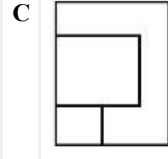
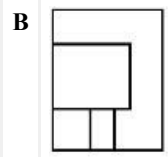
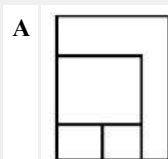


**Q:67**  
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41167  
 The problem figure shows the 3D view of an object. Identify the most appropriate top view, amongst the answer figures.

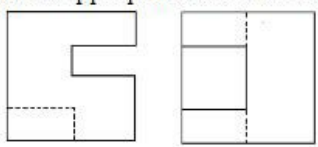


**Question:**

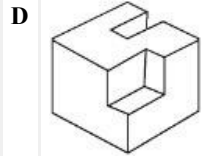
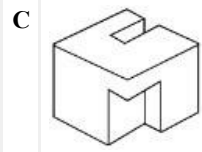
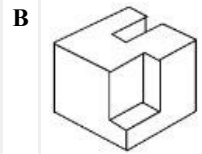
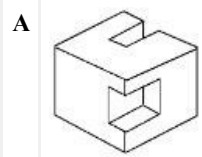


**Q:68**  
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41168  
 The problem figure shows the top view and front view of an object. Identify the most appropriate 3D view of the object amongst the answer figures.



**Question:** TOP VIEW FRONT VIEW

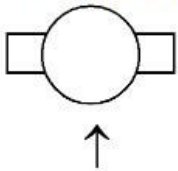


Q:69

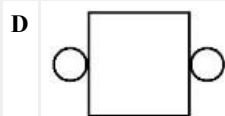
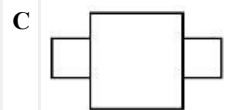
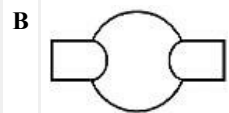
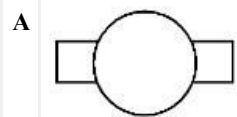
Topic Name:Aptitude Test – Part II

ItemCode:41169

Question figure shows top view of an object. Looking in the direction of given arrow. Identify the most appropriate elevation from the answer figures.



Question:

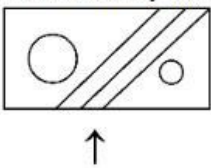


Q:70

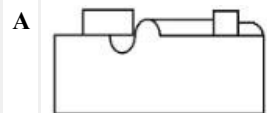
Topic Name:Aptitude Test – Part II

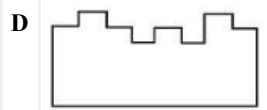
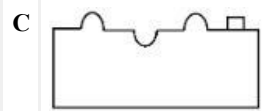
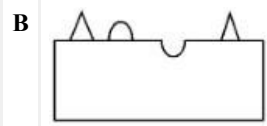
ItemCode:41170

Question figure shows the top view of an object. Looking in the direction of given arrow. Identify the most appropriate elevation from answer figures.



Question:



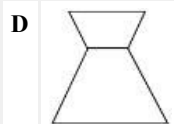
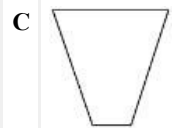
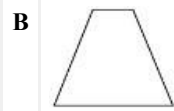
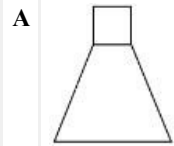
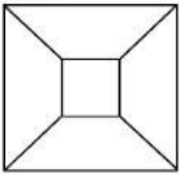


Q:71

Topic Name:Aptitude Test – Part II

ItemCode:41171

Question figure shows top view of an object. Looking in the direction of given arrow. Identify the incorrect option from given possible elevations in answer figures.

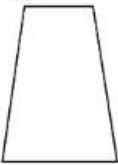


Q:72

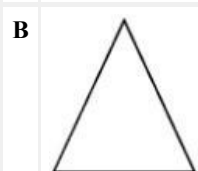
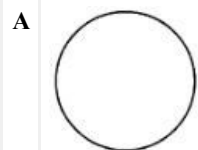
Topic Name:Aptitude Test – Part II

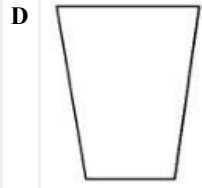
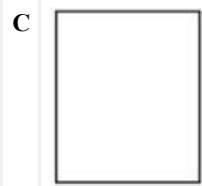
ItemCode:41172

Question figure shows top view of an object. Looking in the direction of given arrow. Identify the incorrect option from given possible elevations in answer figures.



**Question:** ↑



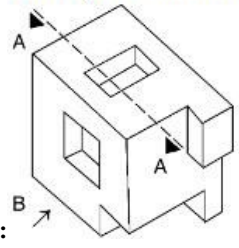


**Q:73**

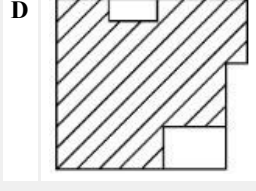
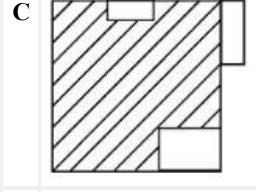
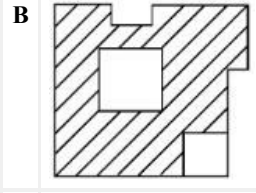
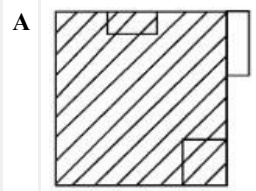
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41173

Question figure shows 3D view of a solid object. If you cut the object along the section line 'A-A' and look at the cross section from given direction of arrow 'B' Identify the correct sectional elevation from given answer figures.



**Question:**

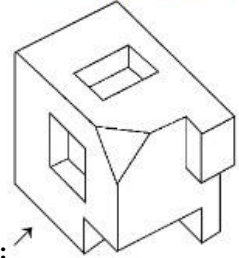


**Q:74**

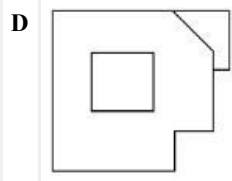
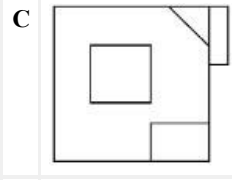
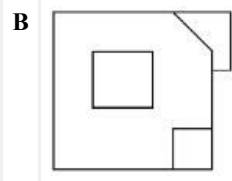
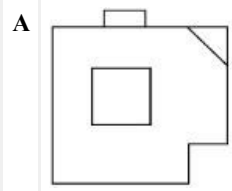
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41174

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

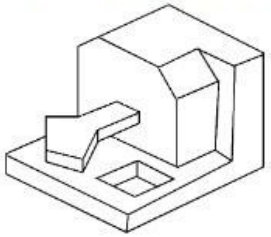


**Question:**

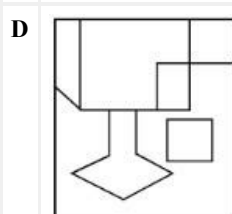
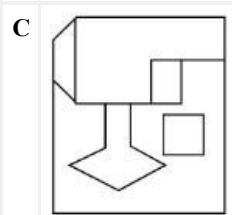
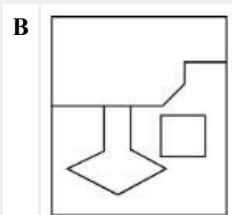
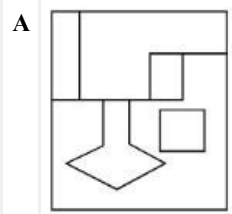


**Q:75**  
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41175  
 Question figure shows 3D view of an object. Identify the most appropriate top view, amongst the answer figures.



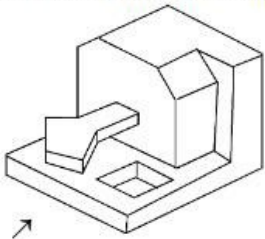
**Question:**



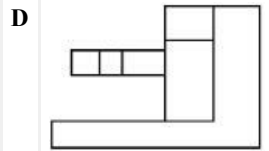
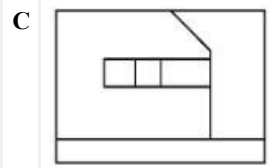
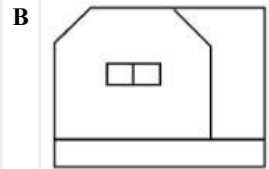
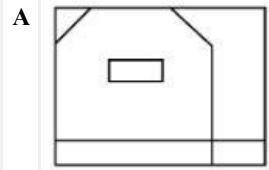
**Q:76**  
**Topic Name:** Aptitude Test – Part II

ItemCode:41176

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



Question: ↗

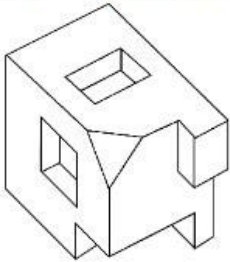


Q:77

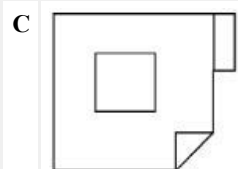
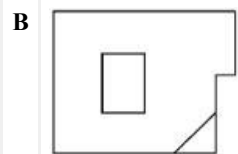
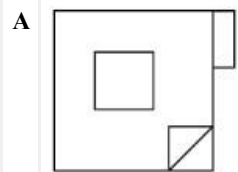
Topic Name:Aptitude Test – Part II

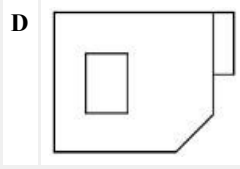
ItemCode:41177

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



Question:



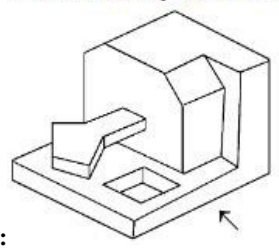


**Q:78**

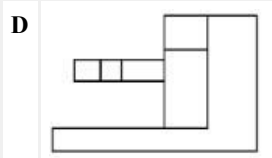
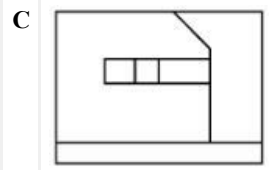
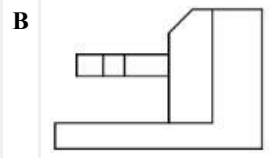
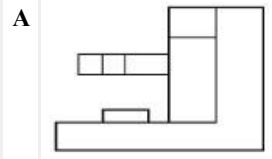
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41178

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



**Question:**

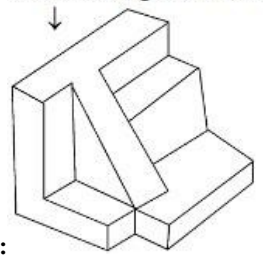


**Q:79**

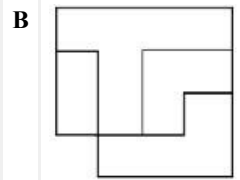
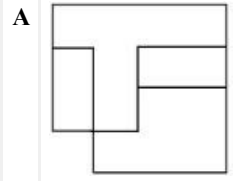
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41179

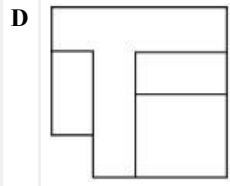
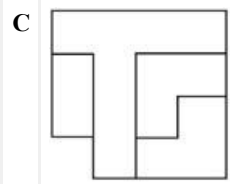
Question figure shows the 3D view of an object. Identify the most appropriate top view, amongst the answer figures.



**Question:**





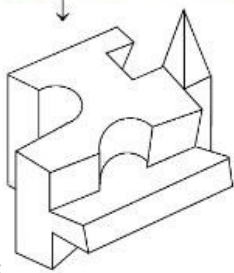


**Q:80**

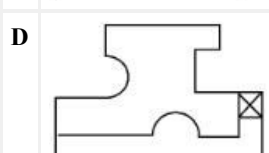
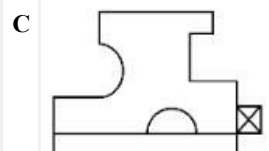
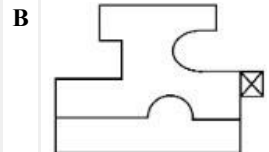
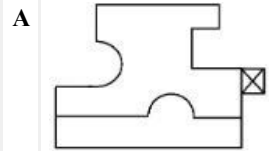
**Topic Name:** Aptitude Test – Part II

**ItemCode:** 41180

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



**Question:**



**Q:81**

**Topic Name:** Drawing Test – Part III

ItemCode:41181

Draw a proportionate sketch of given reference image. Use black & white Pencil rendering technique.



OR

Draw proportionate sketch of any Historic Place you have visited recently. Use

Question: Black and White Pencil rendering techniques.

Q:82

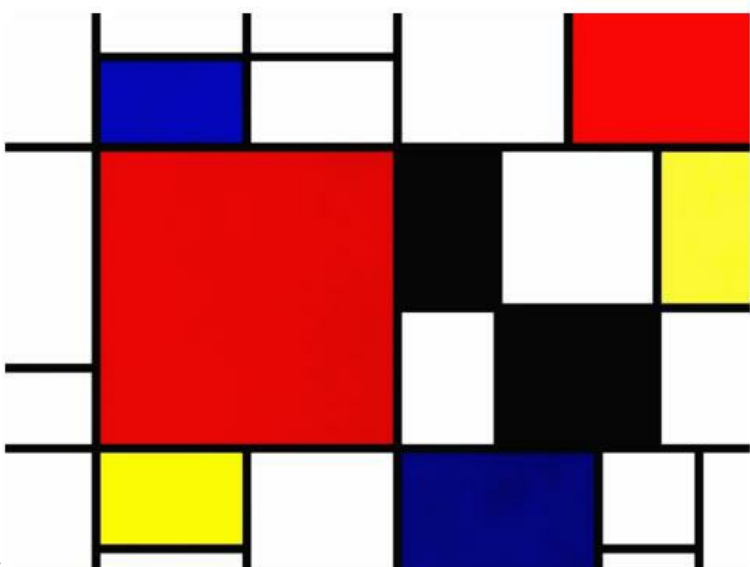
Topic Name: Drawing Test – Part III

ItemCode:41182

You have gone on a jungle Safari and your vehicle stopped near a water body, where a group of wild animals are drinking water. Imagine the same and draw a coloured sketch of the same.

OR

Given image shows painting by an artist. Consider it as a plan of an object. Keeping same proportion of the rectangles shown in image, give them height & develop interesting 3D composition. Use cool colour scheme to render the composition.



Question: