

**NTA JEE 6th Jan 2020 S1**

Application No.	
Candidate Name	
Roll No.	
Test Date	06/01/2020
Test Time	9:30 AM - 12:30 PM
Subject	B ARCH

Section : Mathematics

**Q.1** The set of all positive real values of  $k$ , for which the equation  $x^3 - 9x^2 + 24x - k = 0$  has three distinct real roots, is the interval :

- Options**
1. (18, 21)
  2. (16, 20)
  3. (14, 18)
  4. (12, 16)

Question Type : **MCQ**Question ID : **405036719**Option 1 ID : **4050362683**Option 2 ID : **4050362684**Option 3 ID : **4050362686**Option 4 ID : **4050362685**Status : **Not Answered**

Chosen Option : --

**Q.2** In a certain town, 25% families own a phone, 15% families own a car, 65% families own neither a phone nor a car and 2000 families own both a car and a phone. Consider the following Statements (S) :

(S<sub>1</sub>) : 35% families own at least one of a car or a phone.

(S<sub>2</sub>) : 40,000 families live in the town.

Then :

- Options**
1. Both (S<sub>1</sub>) and (S<sub>2</sub>) are false.
  2. Both (S<sub>1</sub>) and (S<sub>2</sub>) are true.
  3. (S<sub>1</sub>) is true and (S<sub>2</sub>) is false.
  4. (S<sub>1</sub>) is false and (S<sub>2</sub>) is true.

Question Type : **MCQ**

Question ID : **405036711**

Option 1 ID : **4050362654**

Option 2 ID : **4050362653**

Option 3 ID : **4050362651**

Option 4 ID : **4050362652**

Status : **Answered**

Chosen Option : **3**

Q.3

The integral  $\int \frac{(2 \sin \theta - 1) \cos \theta}{5 - \cos^2 \theta - 4 \sin \theta} d\theta$  is

equal to :

(where C is a constant of integration)

Options

1.  $3 \log_e(2 - \cos \theta) + \frac{2}{2 - \sin \theta} + C$
2.  $2 \log_e(2 - \sin \theta) + \frac{3}{2 - \sin \theta} + C$
3.  $3 \log_e(2 + \cos \theta) + \frac{2}{2 - \cos \theta} + C$
4.  $2 \log_e(2 + \sin \theta) + \frac{3}{2 - \cos \theta} + C$

Question Type : **MCQ**Question ID : **405036720**Option 1 ID : **4050362688**Option 2 ID : **4050362689**Option 3 ID : **4050362687**Option 4 ID : **4050362690**Status : **Not Answered**

Chosen Option : --

Q.4

The Boolean expression

$\sim (p \vee q) \vee (\sim p \wedge q)$  is equivalent to :

Options

1. p
2.  $\sim p$
3. q
4.  $\sim q$

Question Type : **MCQ**Question ID : **405036730**Option 1 ID : **4050362727**Option 2 ID : **4050362730**Option 3 ID : **4050362728**Option 4 ID : **4050362729**Status : **Not Answered**

Chosen Option : --

**Q.5** Let  $X$  be a random variable which takes values  $k$  with the probability  $kp$ , where  $k = 1, 2, 3, 4$  and  $p \in (0, 1)$ . Then the standard deviation of  $X$  is :

Options

1.  $\sqrt{7}$
2.  $\sqrt{10}$
3. 3
4. 1

Question Type : **MCQ**

Question ID : **405036727**

Option 1 ID : **4050362716**

Option 2 ID : **4050362718**

Option 3 ID : **4050362717**

Option 4 ID : **4050362715**

Status : **Not Answered**

Chosen Option : --

**Q.6**

$$\text{If } f(x) = \begin{vmatrix} \sin x & \cos x & \tan x \\ x^3 & x^2 & x \\ 2x & 1 & x \end{vmatrix},$$

$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$ , then  $\lim_{x \rightarrow 0} \frac{f(x)}{x^2}$  is equal

to :

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

Question Type : **MCQ**

Question ID : **405036714**

Option 1 ID : **4050362663**

Option 2 ID : **4050362666**

Option 3 ID : **4050362664**

Option 4 ID : **4050362665**

Status : **Not Answered**

Chosen Option : --

Q.7

For non-zero real numbers  $l, m, n$  and  $a$ , let  $f(x) = lx^3 + mx + n$  and  $f(a) = f(4a)$ . Then the value  $x \in [a, 4a]$ , at which the tangent to the curve  $y = f(x)$  is parallel to the  $x$ -axis, is :

- Options
1.  $\sqrt{5} a$
  2.  $3a$
  3.  $2a$
  4.  $\sqrt{7} a$

Question Type : **MCQ**Question ID : **405036718**Option 1 ID : **4050362681**Option 2 ID : **4050362680**Option 3 ID : **4050362679**Option 4 ID : **4050362682**Status : **Not Answered**

Chosen Option : --

Q.8

Let  $C$  be the circle concentric with the circle,  $2x^2 + 2y^2 - 6x - 10y = 183$  and having area  $\left(\frac{1}{10}\right)^{\text{th}}$  of the area of this circle. Then a tangent to  $C$ , parallel to the line,  $3x + y = 0$  makes an intercept on the  $y$ -axis, which is equal to :

- Options
1.  $-10$
  2.  $-4$
  3.  $17$
  4.  $14$

Question Type : **MCQ**Question ID : **405036722**Option 1 ID : **4050362698**Option 2 ID : **4050362697**Option 3 ID : **4050362696**Option 4 ID : **4050362695**Status : **Not Answered**

Chosen Option : --

Q.9 Let  $S = 3 + 55 + 333 + 5555 + 33333 + \dots$  upto 22 terms. If  $9S + 88 = A(10^{22} - 1)$ , then A is equal to :

- Options
1.  $\frac{450}{99}$
  2.  $\frac{530}{99}$
  3.  $\frac{630}{88}$
  4.  $\frac{350}{88}$

Question Type : **MCQ**

Question ID : **405036716**

Option 1 ID : **4050362673**

Option 2 ID : **4050362671**

Option 3 ID : **4050362674**

Option 4 ID : **4050362672**

Status : **Not Answered**

Chosen Option : --

Q.10 If  $x = e^t \sin t$  and  $y = e^t \cos t$ , t is a parameter,

then the value of  $\frac{d^2x}{dy^2} + \frac{d^2y}{dx^2}$  at  $t=0$ , is :

- Options
1. -2
  2.  $\frac{1}{2}$
  3. 2
  4. 0

Question Type : **MCQ**

Question ID : **405036717**

Option 1 ID : **4050362676**

Option 2 ID : **4050362677**

Option 3 ID : **4050362678**

Option 4 ID : **4050362675**

Status : **Answered**

Chosen Option : 1

**Q.11** If an ellipse has centre at  $(0, 0)$ , a focus at  $(-3, 0)$  and the corresponding directrix is  $3x + 25 = 0$ , then it passes through the point :

- Options**
1.  $(-5, -4)$
  2.  $\left(\frac{5}{2}, 4\right)$
  3.  $\left(-5, -\frac{4}{\sqrt{2}}\right)$
  4.  $\left(\frac{5}{\sqrt{2}}, \frac{4}{\sqrt{2}}\right)$

Question Type : **MCQ**

Question ID : **405036724**

Option 1 ID : **4050362704**

Option 2 ID : **4050362703**

Option 3 ID : **4050362706**

Option 4 ID : **4050362705**

Status : **Not Answered**

Chosen Option : --

**Q.12** If the roots  $\alpha$  and  $\beta$  of the equation,  $x^2 - \sqrt{2}x + c = 0$  are complex for some real number  $c \neq 1$  and  $\left|\frac{\alpha - \beta}{1 - \alpha\beta}\right| = 1$ , then a value of  $c$  is :

- Options**
1.  $-2 + \sqrt{6}$
  2.  $4 - \sqrt{6}$
  3.  $3 - \sqrt{6}$
  4.  $-1 + \sqrt{6}$

Question Type : **MCQ**

Question ID : **405036712**

Option 1 ID : **4050362655**

Option 2 ID : **4050362656**

Option 3 ID : **4050362657**

Option 4 ID : **4050362658**

Status : **Not Answered**

Chosen Option : --

**Q.13** If the probability of a shooter A not hitting a target is 0.5 and that for the shooter B is 0.7, then the probability that either A or B fails to hit the target is :

- Options
1. 0.20
  2. 0.35
  3. 0.25
  4. 0.85

Question Type : **MCQ**

Question ID : **405036728**

Option 1 ID : **4050362721**

Option 2 ID : **4050362719**

Option 3 ID : **4050362720**

Option 4 ID : **4050362722**

Status : **Not Answered**

Chosen Option : --

**Q.14** If  $\theta$  is the angle between the line

$$\vec{r} = (\hat{i} + 2\hat{j} - \hat{k}) + \lambda (\hat{i} - \hat{j} + 2\hat{k}), \lambda \in \mathbf{R}$$

and the plane  $\vec{r} \cdot (2\hat{i} - \hat{j} + \hat{k}) = 4$ , then a value of  $\cos\theta$  is :

- Options
1.  $\frac{\sqrt{11}}{6}$
  2.  $\frac{\sqrt{35}}{6}$
  3.  $\frac{\sqrt{13}}{6}$
  4.  $\frac{\sqrt{7}}{3}$

Question Type : **MCQ**

Question ID : **405036726**

Option 1 ID : **4050362711**

Option 2 ID : **4050362713**

Option 3 ID : **4050362712**

Option 4 ID : **4050362714**

Status : **Not Answered**

Chosen Option : --



**Q.15** The area (in sq. units) of the region enclosed by the lines,  $ax \pm by \pm c = 0$  ( $a, b, c \in \mathbf{R}$  are positive and distinct) is :

Options

1.  $\frac{2b^2}{ac}$
2.  $\frac{2a^2}{bc}$
3.  $\frac{2c^2}{ab}$
4.  $\frac{4c^2}{ab}$

Question Type : **MCQ**

Question ID : **405036723**

Option 1 ID : **4050362701**

Option 2 ID : **4050362699**

Option 3 ID : **4050362700**

Option 4 ID : **4050362702**

Status : **Not Answered**

Chosen Option : --

**Q.16** The value of  $\cot \frac{\pi}{24}$  is :

Options

1.  $1 + \sqrt{2} + \sqrt{3} + \sqrt{6}$
2.  $1 - \sqrt{2} + \sqrt{3} + \sqrt{6}$
3.  $2 + \sqrt{2} + \sqrt{3} - \sqrt{6}$
4.  $2 + \sqrt{2} + \sqrt{3} + \sqrt{6}$

Question Type : **MCQ**

Question ID : **405036729**

Option 1 ID : **4050362726**

Option 2 ID : **4050362724**

Option 3 ID : **4050362723**

Option 4 ID : **4050362725**

Status : **Not Answered**

Chosen Option : --

Q.17 Let P be the point of intersection of two lines

$$\frac{x + 10}{1} = \frac{y - 21}{7} = \frac{z + 11}{5} \quad \text{and}$$

$$\frac{x - 1}{5} = \frac{y - 46}{9} = \frac{z}{3}. \quad \text{If Q be the point}$$

$(-10, 21, -11)$ ; then PQ is equal to :

Options 1. 3

2. 5

3.  $5\sqrt{3}$

4.  $5\sqrt{2}$

Question Type : **MCQ**

Question ID : **405036725**

Option 1 ID : **4050362707**

Option 2 ID : **4050362708**

Option 3 ID : **4050362710**

Option 4 ID : **4050362709**

Status : **Answered**

Chosen Option : 3

Q.18 The area (in sq. units) of the region,

$$R = \{(x, y) : y \leq x^2, y \leq 2x + 3, x \leq 1 \text{ and } y + 1 \geq 0\} \text{ is :}$$

Options 1.  $\frac{11}{3}$

2.  $\frac{13}{3}$

3.  $\frac{10}{3}$

4.  $\frac{8}{3}$

Question Type : **MCQ**

Question ID : **405036721**

Option 1 ID : **4050362693**

Option 2 ID : **4050362694**

Option 3 ID : **4050362692**

Option 4 ID : **4050362691**

Status : **Not Answered**

Chosen Option : --

**Q.19** If  $\alpha$  and  $\beta$  are the coefficients of  $x^8$  and  $x^{-24}$  respectively, in the expansion of  $\left(x^4 + 2 + \frac{1}{x^4}\right)^{10}$  in powers of  $x$ , then  $\frac{\alpha}{\beta}$  is equal to :

- Options**
1. 39
  2. 26
  3.  $\frac{32}{3}$
  4.  $\frac{13}{2}$

Question Type : **MCQ**

Question ID : **405036715**

Option 1 ID : **4050362670**

Option 2 ID : **4050362668**

Option 3 ID : **4050362669**

Option 4 ID : **4050362667**

Status : **Not Answered**

Chosen Option : --

**Q.20** Let  $A$  be a  $2 \times 2$  matrix such that  $3A^2 + 6A - 4I = 0$ . Then a value of  $|A + I|$  is :

- Options**
1.  $-\frac{7}{\sqrt{3}}$
  2.  $-\frac{7}{3}$
  3.  $\sqrt{\frac{7}{3}}$
  4.  $\frac{3}{7}$

Question Type : **MCQ**

Question ID : **405036713**

Option 1 ID : **4050362661**

Option 2 ID : **4050362660**

Option 3 ID : **4050362659**

Option 4 ID : **4050362662**

Status : **Not Answered**

Chosen Option : --

**Q.21** If  $y = y(x)$  is the solution of the differential equation,  $x \frac{dy}{dx} = y(\log_e y - \log_e x + 1)$ , when  $y(1) = 2$ , then  $y(2)$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : **SA**  
Question ID : **405036732**  
Status : **Not Answered**

**Q.22** If  $S = \{z \in \mathbb{C} : \bar{z} = iz^2\}$ , then the maximum value of  $|z - \sqrt{3} - i|^2$  on  $S$  is \_\_\_\_\_.

Given --  
Answer :

Question Type : **SA**  
Question ID : **405036735**  
Status : **Not Answered**

**Q.23**  $\lim_{y \rightarrow 0} \frac{(y-2) + 2\sqrt{1+y+y^2}}{2y}$  is equal to \_\_\_\_\_.

Given --  
Answer :

Question Type : **SA**  
Question ID : **405036734**  
Status : **Not Answered**

**Q.24** The interior angles of a polygon are all obtuse and are in A.P. If the smallest angle is  $120^\circ$  and common difference of this A.P. is  $5^\circ$ , then the number of sides of the polygon is \_\_\_\_\_.

Given --  
Answer :

Question Type : **SA**  
Question ID : **405036733**  
Status : **Not Answered**

Q.25 The largest value of  $n \in \mathbb{N}$  for which

$$\frac{74}{{}^n P_n} > \frac{{}^{n+3} P_3}{{}^{n+1} P_{n+1}} \text{ is } \dots\dots\dots$$

Given --  
Answer :

Question Type : SA  
Question ID : 405036731  
Status : Not Answered

Section : Aptitude Test

Q.1 Which one of the following floorings is ideal for indoor badminton courts ?

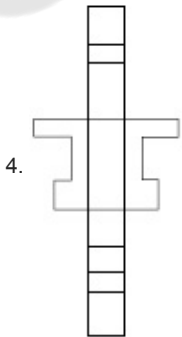
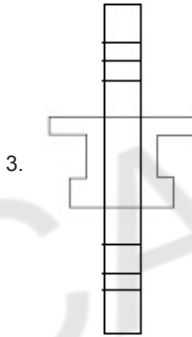
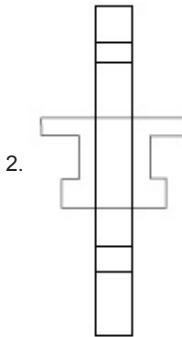
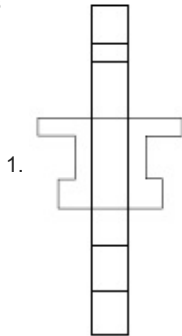
- Options
1. Granite
  2. Brick
  3. Marble
  4. Wood

Question Type : MCQ  
Question ID : 405036783  
Option 1 ID : 4050362924  
Option 2 ID : 4050362925  
Option 3 ID : 4050362926  
Option 4 ID : 4050362927  
Status : Answered  
Chosen Option : 4

**Q.2** The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



**Options**



Question Type : **MCQ**

Question ID : **405036768**

Option 1 ID : **4050362865**

Option 2 ID : **4050362867**

Option 3 ID : **4050362864**

Option 4 ID : **4050362866**

Status : **Answered**

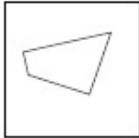
Chosen Option : **4**

Q.3

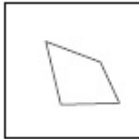
Find the odd figure out of the problem figures given below.

Options

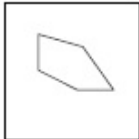
1.



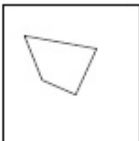
2.



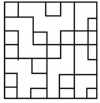
3.



4.

Question Type : **MCQ**Question ID : **405036763**Option 1 ID : **4050362847**Option 2 ID : **4050362845**Option 3 ID : **4050362846**Option 4 ID : **4050362844**Status : **Answered**Chosen Option : **3**

**Q.4** One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.



**Options**

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

Question Type : **MCQ**

Question ID : **405036754**

Option 1 ID : **4050362808**

Option 2 ID : **4050362811**

Option 3 ID : **4050362809**

Option 4 ID : **4050362810**

Status : **Answered**

Chosen Option : **3**

**Q.5** In the Northern Hemisphere the summer sun sets in which one of the following directions ?

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

Question Type : **MCQ**

Question ID : **405036772**

Option 1 ID : **4050362880**

Option 2 ID : **4050362883**

Option 3 ID : **4050362881**

Option 4 ID : **4050362882**

Status : **Answered**

Chosen Option : **3**

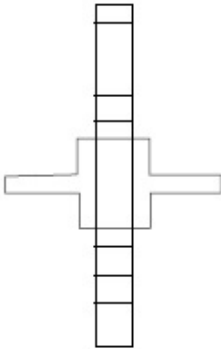


**Q.6** The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.

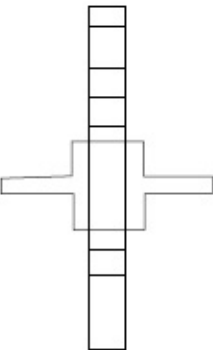


Options

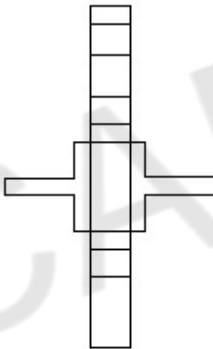
1.



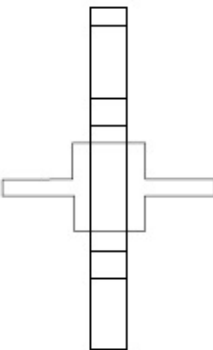
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036766**

Option 1 ID : **4050362856**

Option 2 ID : **4050362858**

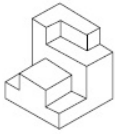
Option 3 ID : **4050362859**

Option 4 ID : **4050362857**

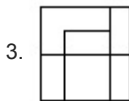
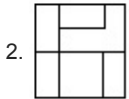
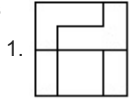
Status : **Answered**

Chosen Option : 4

**Q.7** The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



Options

Question Type : **MCQ**Question ID : **405036749**Option 1 ID : **4050362790**Option 2 ID : **4050362789**Option 3 ID : **4050362788**Option 4 ID : **4050362791**Status : **Answered**

Chosen Option : 1

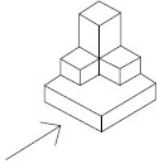
**Q.8** In which one of the following States is the Konark Sun Temple ?

- Options
1. Andhra Pradesh
  2. Haryana
  3. Odisha
  4. Karnataka

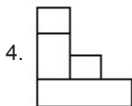
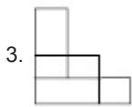
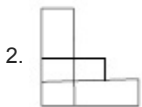
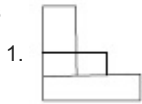
Question Type : **MCQ**Question ID : **405036773**Option 1 ID : **4050362885**Option 2 ID : **4050362887**Option 3 ID : **4050362886**Option 4 ID : **4050362884**Status : **Answered**

Chosen Option : 3

**Q.9** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



**Options**



Question Type : **MCQ**

Question ID : **405036745**

Option 1 ID : **4050362773**

Option 2 ID : **4050362774**

Option 3 ID : **4050362772**

Option 4 ID : **4050362775**

Status : **Answered**

Chosen Option : **1**

**Q.10** In which one of the following countries are Zen gardens popular ?

**Options** 1. China

2. Pakistan

3. Thailand

4. Japan

Question Type : **MCQ**

Question ID : **405036777**

Option 1 ID : **4050362902**

Option 2 ID : **4050362903**

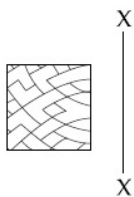
Option 3 ID : **4050362900**

Option 4 ID : **4050362901**

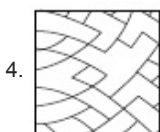
Status : **Not Answered**

Chosen Option : **--**

**Q.11** Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?



**Options**



Question Type : **MCQ**

Question ID : **405036760**

Option 1 ID : **4050362835**

Option 2 ID : **4050362833**

Option 3 ID : **4050362832**

Option 4 ID : **4050362834**

Status : **Answered**

Chosen Option : **1**

**Q.12** Which one of the following colors absorbs all light falling on it ?

- Options**
1. **Green**
  2. **Black**
  3. **Pink**
  4. **Blue**

Question Type : **MCQ**

Question ID : **405036779**

Option 1 ID : **4050362910**

Option 2 ID : **4050362909**

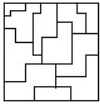
Option 3 ID : **4050362911**

Option 4 ID : **4050362908**

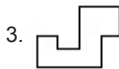
Status : **Answered**

Chosen Option : **2**

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



**Options**



Question Type : **MCQ**

Question ID : **405036751**

Option 1 ID : **4050362797**

Option 2 ID : **4050362796**

Option 3 ID : **4050362798**

Option 4 ID : **4050362799**

Status : **Answered**

Chosen Option : 1

**Q.14** Which one of the following architects designed the Madhya Pradesh Assembly Building ?

**Options** 1. Charles Correa

2. B.V. Doshi

3. A.P. Kanvinde

4. Raj Rewal

Question Type : **MCQ**

Question ID : **405036784**

Option 1 ID : **4050362929**

Option 2 ID : **4050362931**

Option 3 ID : **4050362930**

Option 4 ID : **4050362928**

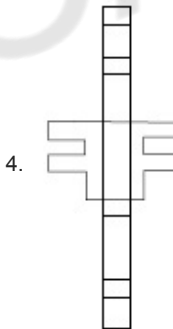
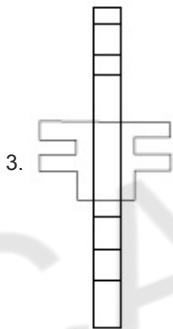
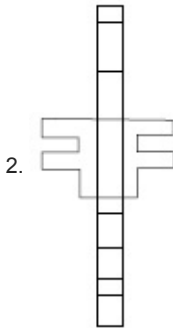
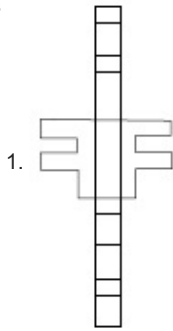
Status : **Not Answered**

Chosen Option : --

**Q.15** The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



Options



Question Type : **MCQ**

Question ID : **405036770**

Option 1 ID : **4050362872**

Option 2 ID : **4050362874**

Option 3 ID : **4050362875**

Option 4 ID : **4050362873**

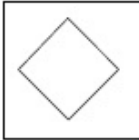
Status : **Answered**

Chosen Option : **1**

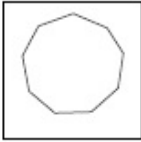
**Q.16** Find the odd figure out of the problem figures given below.

Options

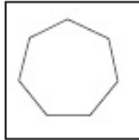
1.



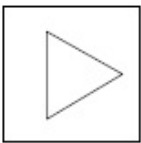
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036762**

Option 1 ID : **4050362841**

Option 2 ID : **4050362843**

Option 3 ID : **4050362842**

Option 4 ID : **4050362840**

Status : **Answered**

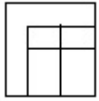
Chosen Option : **1**

**Q.17** The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

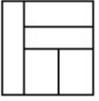


**Options**

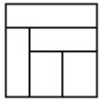
1.



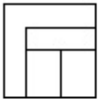
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036747**

Option 1 ID : **4050362781**

Option 2 ID : **4050362783**

Option 3 ID : **4050362780**

Option 4 ID : **4050362782**

Status : **Answered**

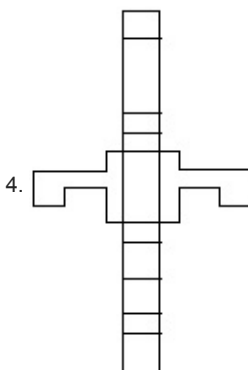
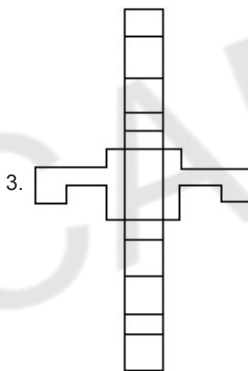
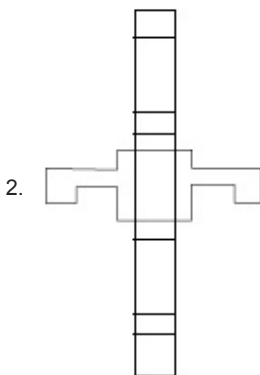
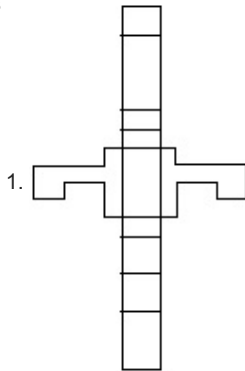
Chosen Option : **4**



**Q.18** The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



Options



Question Type : **MCQ**

Question ID : **405036767**

Option 1 ID : **4050362861**

Option 2 ID : **4050362860**

Option 3 ID : **4050362863**  
Option 4 ID : **4050362862**  
Status : **Answered**  
Chosen Option : **4**

**Q.19** The Louvre in Paris is which one of the following ?

- Options
1. A Banquet Hall
  2. A Dance Hall
  3. A Residence
  4. A Museum

Question Type : **MCQ**  
Question ID : **405036771**  
Option 1 ID : **4050362877**  
Option 2 ID : **4050362876**  
Option 3 ID : **4050362879**  
Option 4 ID : **4050362878**  
Status : **Answered**  
Chosen Option : **4**

**Q.20** What is the normal height of a doorway in residences ?

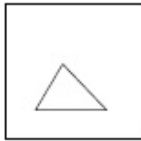
- Options
1. 2.8 meters
  2. 2.1 meters
  3. 1.5 meters
  4. 2.5 meters

Question Type : **MCQ**  
Question ID : **405036785**  
Option 1 ID : **4050362935**  
Option 2 ID : **4050362934**  
Option 3 ID : **4050362933**  
Option 4 ID : **4050362932**  
Status : **Not Answered**  
Chosen Option : **--**

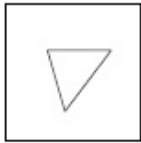
**Q.21** Find the odd figure out of the problem figures given below.

Options

1.



2.



3.



4.



Question Type : **MCQ**

Question ID : **405036761**

Option 1 ID : **4050362836**

Option 2 ID : **4050362838**

Option 3 ID : **4050362839**

Option 4 ID : **4050362837**

Status : **Answered**

Chosen Option : **2**

**Q.22** What is the thickness of a half brick thick wall ?

Options 1. 4.5"

2. 8"

3. 9"

4. 6"

Question Type : **MCQ**

Question ID : **405036774**

Option 1 ID : **4050362890**

Option 2 ID : **4050362891**

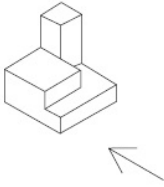
Option 3 ID : **4050362888**

Option 4 ID : **4050362889**

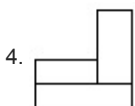
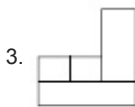
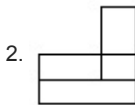
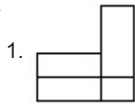
Status : **Not Answered**

Chosen Option : **--**

**Q.23** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



**Options**



Question Type : **MCQ**

Question ID : **405036738**

Option 1 ID : **4050362745**

Option 2 ID : **4050362744**

Option 3 ID : **4050362747**

Option 4 ID : **4050362746**

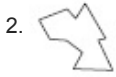
Status : **Answered**

Chosen Option : **4**

**Q.24** One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.



**Options**



Question Type : **MCQ**

Question ID : **405036755**

Option 1 ID : **4050362813**

Option 2 ID : **4050362815**

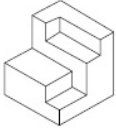
Option 3 ID : **4050362814**

Option 4 ID : **4050362812**

Status : **Answered**

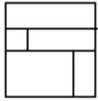
Chosen Option : **4**

**Q.25** The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



**Options**

1.



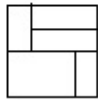
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036746**

Option 1 ID : **4050362779**

Option 2 ID : **4050362777**

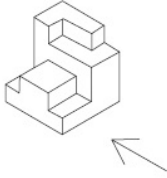
Option 3 ID : **4050362778**

Option 4 ID : **4050362776**

Status : **Answered**

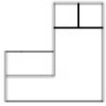
Chosen Option : **2**

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

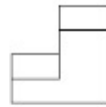


**Options**

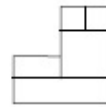
1.



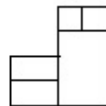
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036739**

Option 1 ID : **4050362751**

Option 2 ID : **4050362750**

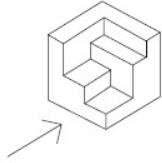
Option 3 ID : **4050362749**

Option 4 ID : **4050362748**

Status : **Answered**

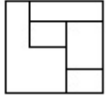
Chosen Option : **1**

**Q.27** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

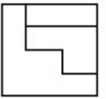


**Options**

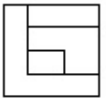
1.



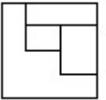
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036742**

Option 1 ID : **4050362762**

Option 2 ID : **4050362763**

Option 3 ID : **4050362761**

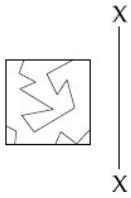
Option 4 ID : **4050362760**

Status : **Answered**

Chosen Option : **2**



**Q.28** Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?



**Options**

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

Question Type : **MCQ**

Question ID : **405036757**

Option 1 ID : **4050362820**

Option 2 ID : **4050362821**

Option 3 ID : **4050362822**

Option 4 ID : **4050362823**

Status : **Answered**

Chosen Option : **2**

**Q.29** In which one of the following countries is Piazza San Marco located ?

- Options**
1. Italy
  2. Germany
  3. France
  4. England

Question Type : **MCQ**

Question ID : **405036776**

Option 1 ID : **4050362899**

Option 2 ID : **4050362896**

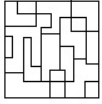
Option 3 ID : **4050362897**

Option 4 ID : **4050362898**

Status : **Not Answered**

Chosen Option : **--**

**Q.30** One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.



**Options**

1.



2.



3.



4.



Question Type : **MCQ**

Question ID : **405036753**

Option 1 ID : **4050362805**

Option 2 ID : **4050362807**

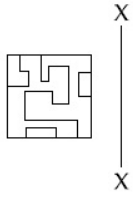
Option 3 ID : **4050362806**

Option 4 ID : **4050362804**

Status : **Answered**

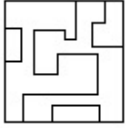
Chosen Option : **3**

**Q.31** Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X?

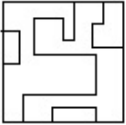


**Options**

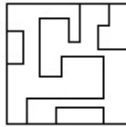
1.



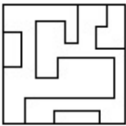
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036758**

Option 1 ID : **4050362826**

Option 2 ID : **4050362825**

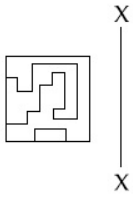
Option 3 ID : **4050362827**

Option 4 ID : **4050362824**

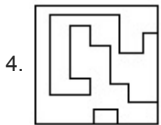
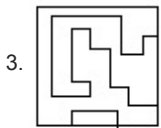
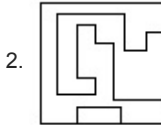
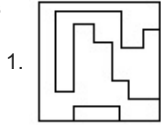
Status : **Answered**

Chosen Option : **3**

**Q.32** Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X ?



**Options**



Question Type : **MCQ**

Question ID : **405036756**

Option 1 ID : **4050362817**

Option 2 ID : **4050362816**

Option 3 ID : **4050362818**

Option 4 ID : **4050362819**

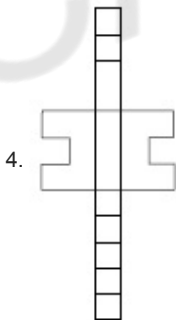
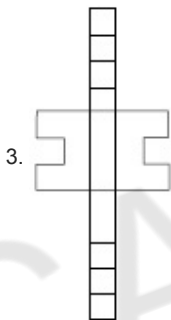
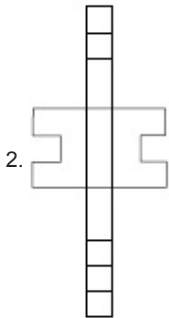
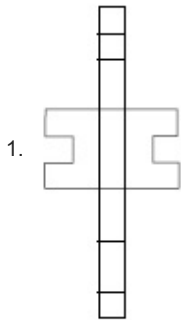
Status : **Answered**

Chosen Option : **3**

**Q.33** The 3 - D figure shows the view of an object. Identify the correct view when the figure is opened up, from amongst the answer figures.



Options



Question Type : **MCQ**

Question ID : **405036769**

Option 1 ID : **4050362871**

Option 2 ID : **4050362870**

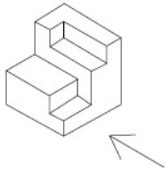
Option 3 ID : **4050362868**

Option 4 ID : **4050362869**

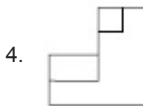
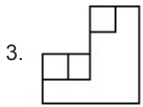
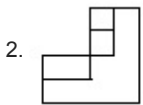
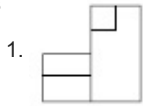
Status : **Answered**

Chosen Option : **2**

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



**Options**



Question Type : **MCQ**

Question ID : **405036736**

Option 1 ID : **4050362739**

Option 2 ID : **4050362736**

Option 3 ID : **4050362737**

Option 4 ID : **4050362738**

Status : **Answered**

Chosen Option : **4**

**Q.35** Which one of the following colors is perceived as cowardice ?

**Options** 1. Pink

2. Yellow

3. Orange

4. Purple

Question Type : **MCQ**

Question ID : **405036780**

Option 1 ID : **4050362912**

Option 2 ID : **4050362915**

Option 3 ID : **4050362914**

Option 4 ID : **4050362913**

Status : **Answered**

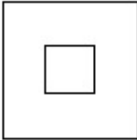
Chosen Option : **4**

Q.36

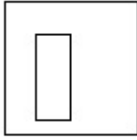
Find the odd figure out of the problem figures given below.

Options

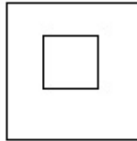
1.



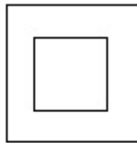
2.



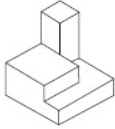
3.



4.

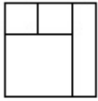
Question Type : **MCQ**Question ID : **405036764**Option 1 ID : **4050362849**Option 2 ID : **4050362850**Option 3 ID : **4050362851**Option 4 ID : **4050362848**Status : **Answered**Chosen Option : **2**

**Q.37** The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

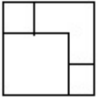


**Options**

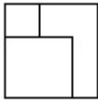
1.



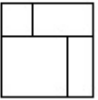
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036748**

Option 1 ID : **4050362785**

Option 2 ID : **4050362787**

Option 3 ID : **4050362784**

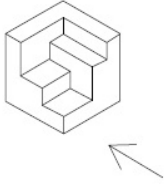
Option 4 ID : **4050362786**

Status : **Answered**

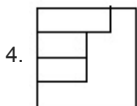
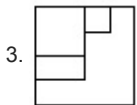
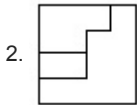
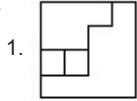
Chosen Option : **3**



**Q.38** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



**Options**



Question Type : **MCQ**

Question ID : **405036737**

Option 1 ID : **4050362740**

Option 2 ID : **4050362743**

Option 3 ID : **4050362741**

Option 4 ID : **4050362742**

Status : **Answered**

Chosen Option : **2**

**Q.39** One of the following answer figures is hidden in the problem figure in the same size and direction. Select the correct one.



**Options**

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

Question Type : **MCQ**

Question ID : **405036752**

Option 1 ID : **4050362801**

Option 2 ID : **4050362802**

Option 3 ID : **4050362800**

Option 4 ID : **4050362803**

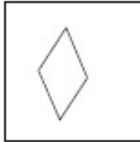
Status : **Answered**

Chosen Option : **2**

**Q.40** Find the odd figure out of the problem figures given below.

Options

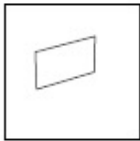
1.



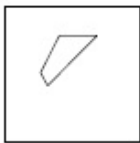
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036765**

Option 1 ID : **4050362855**

Option 2 ID : **4050362852**

Option 3 ID : **4050362853**

Option 4 ID : **4050362854**

Status : **Answered**

Chosen Option : **4**

**Q.41** What is the purpose of louvers in buildings ?

Options 1. As sun breakers

2. To stop wind from entering

3. To support buildings

4. To hide something

Question Type : **MCQ**

Question ID : **405036782**

Option 1 ID : **4050362922**

Option 2 ID : **4050362921**

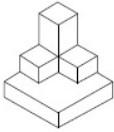
Option 3 ID : **4050362920**

Option 4 ID : **4050362923**

Status : **Answered**

Chosen Option : **1**

**Q.42** The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.



**Options**

1.



2.



3.



4.



Question Type : **MCQ**

Question ID : **405036750**

Option 1 ID : **4050362794**

Option 2 ID : **4050362793**

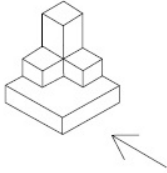
Option 3 ID : **4050362792**

Option 4 ID : **4050362795**

Status : **Answered**

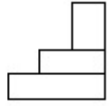
Chosen Option : **3**

**Q.43** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

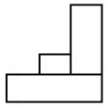


**Options**

1.



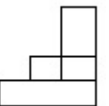
2.



3.



4.



Question Type : **MCQ**

Question ID : **405036740**

Option 1 ID : **4050362753**

Option 2 ID : **4050362752**

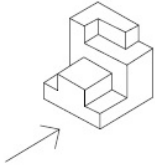
Option 3 ID : **4050362754**

Option 4 ID : **4050362755**

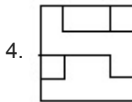
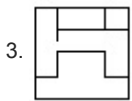
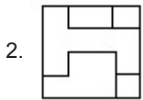
Status : **Answered**

Chosen Option : **4**

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



**Options**



Question Type : **MCQ**

Question ID : **405036744**

Option 1 ID : **4050362769**

Option 2 ID : **4050362770**

Option 3 ID : **4050362768**

Option 4 ID : **4050362771**

Status : **Answered**

Chosen Option : **1**

**Q.45** Which one of the following textures describes the surface of a mirror ?

- Options**
1. Grainy
  2. Coarse
  3. Shiny
  4. Wrinkled

Question Type : **MCQ**

Question ID : **405036781**

Option 1 ID : **4050362916**

Option 2 ID : **4050362919**

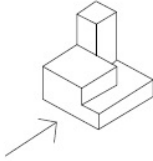
Option 3 ID : **4050362918**

Option 4 ID : **4050362917**

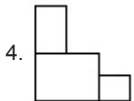
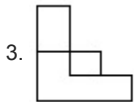
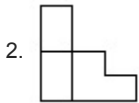
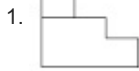
Status : **Answered**

Chosen Option : **3**

**Q.46** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



**Options**



Question Type : **MCQ**

Question ID : **405036743**

Option 1 ID : **4050362765**

Option 2 ID : **4050362767**

Option 3 ID : **4050362764**

Option 4 ID : **4050362766**

Status : **Answered**

Chosen Option : **1**

**Q.47** Chhatrapati Shivaji Terminus is located in which one of the following cities ?

**Options**

1. Bangalore

2. Kolkata

3. Mumbai

4. Delhi

Question Type : **MCQ**

Question ID : **405036778**

Option 1 ID : **4050362907**

Option 2 ID : **4050362905**

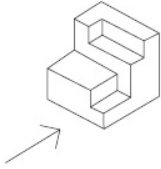
Option 3 ID : **4050362904**

Option 4 ID : **4050362906**

Status : **Answered**

Chosen Option : **2**

**Q.48** The 3 - D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



**Options**

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

Question Type : **MCQ**

Question ID : **405036741**

Option 1 ID : **4050362758**

Option 2 ID : **4050362756**

Option 3 ID : **4050362759**

Option 4 ID : **4050362757**

Status : **Answered**

Chosen Option : **3**

**Q.49** In which one of the following situations are trusses normally used in buildings ?

- Options**
1. Large Span Buildings
  2. Buildings in Deserts
  3. High Rise Buildings
  4. Under Water Buildings

Question Type : **MCQ**

Question ID : **405036775**

Option 1 ID : **4050362893**

Option 2 ID : **4050362895**

Option 3 ID : **4050362892**

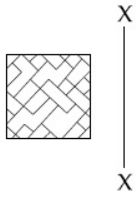
Option 4 ID : **4050362894**

Status : **Answered**

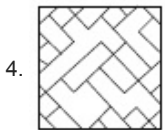
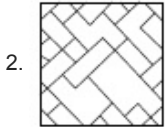
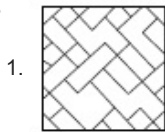
Chosen Option : **1**



**Q.50** Which one of the answer figures is the correct mirror image of the problem figure with respect to X - X ?



**Options**



Question Type : **MCQ**

Question ID : **405036759**

Option 1 ID : **4050362829**

Option 2 ID : **4050362830**

Option 3 ID : **4050362828**

Option 4 ID : **4050362831**

Status : **Answered**

Chosen Option : **1**

Section : **Drawing**

**Q. 1** In the space provided for the answer of this question, draw an aesthetic composition appropriate to this space using only cylinders. There is no restriction to numbers, sizes, placement and directions of these shapes. Color this composition so that it becomes visually exciting.

Question Type : **SUBJECTIVE**

Question ID : **405036786**

Status : **Answered**

Q.  
2 Draw from imagination a gymnast doing exercise.

**OR**

Draw from imagination a scene of a school playground with children playing.

**OR**

Draw from memory a grand parents face.

Question Type : **SUBJECTIVE**

Question ID : **405036787**

Status : **Answered**

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