

Question ID:121

Topic Name:Mathematics – Part I-Section A

The equation of the plane passing through the intersection of the planes

$$\vec{r} \cdot (\hat{i} + 2\hat{j} - \hat{k}) = 3 \text{ and } \vec{r} \cdot (2\hat{i} - \hat{j} + 3\hat{k}) = 2, \text{ and parallel to the line}$$

$$\frac{x-1}{1} = \frac{y-2}{2} = \frac{z-3}{1}, \text{ is}$$

Question:

A $\vec{r} \cdot (-5\hat{i} + 10\hat{j} - 15\hat{k}) = 4$

B $\vec{r} \cdot (-5\hat{i} + 10\hat{j} - 15\hat{k}) = 1$

C $\vec{r} \cdot (-9\hat{i} + 6\hat{j} - 3\hat{k}) = 4$

D $\vec{r} \cdot (-9\hat{i} + 6\hat{j} - 3\hat{k}) = 1$

Question ID:122

Topic Name:Mathematics – Part I-Section A

Let $f, g : \mathbb{R} \rightarrow \mathbb{R}$ be functions defined by $f(x) = x - 7$ and $g(x) = [7 + \sin x]$, where $[t]$ is the greatest integer less than or equal to t . Then the number of points in $[0, \pi]$,

Question: where the function $f \circ g + g \circ f$ is not continuous, is

A 1

B 2

C 3

D 5

Question ID:123

Topic Name:Mathematics – Part I-Section A

Let m and n be non-negative integers such that for

$$x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right), \tan x + \sin x = m, \tan x - \sin x = n. \text{ Then the possible ordered pair}$$

Question: (m, n) is

A $(2, 1)$ but not $(3, 4)$

B $(3, 4)$ but not $(2, 1)$

C both $(2, 1)$ and $(3, 4)$

D neither $(2, 1)$ nor $(3, 4)$

Question ID:124**Topic Name:**Mathematics – Part I-Section A**Question:** Let $f(x) = (x + 4)^2 - 4, x \geq -4$. Then $\{x : f(x) = f^{-1}(x)\}$ is equal to

A $\{-4, -3, 3, 4\}$

B $\{-3, 0, 4\}$

C $\{-4, 3\}$

D $\{-4, -3\}$

Question ID:125**Topic Name:**Mathematics – Part I-Section ALet z be a complex number and $\theta = \tan^{-1}\left(\frac{|\operatorname{Im}(z)|}{|\operatorname{Re}(z)|}\right)$ be an acute angle. If $\arg(z) = \theta - \pi, |\operatorname{Re}(z)| = |\operatorname{Re}(1 - 2i)^{-3}|$ and $|\operatorname{Im}(z)| = |\operatorname{Im}(1 - 2i)^{-3}|$, then $125 \operatorname{Im}\left(z + \frac{2i}{z}\right)$ is equal to**Question:**

A -2752

B -1377

C -1152

D -627

Question ID:126**Topic Name:**Mathematics – Part I-Section ALet $A = [a_{ij}]$, $\det(A) \neq 0$, and $B = [b_{ij}]$ be two 3×3 matrices. If $b_{ij} = 3^{i-j} a_{ij}$ for all**Question:** $i, j = 1, 2, 3$ then

A $3 \det(A) = \det(B)$

B $27 \det(A) = \det(B)$

C $\det(A) = \det(B)$

D $\det(A) = 27 \det(B)$

Question ID:127**Topic Name:**Mathematics – Part I-Section ALet A be a 3×3 symmetric matrix with integer entries. If the sum of all the**Question:** diagonal elements of A^2 is 2, then the total number of such matrices A is equal to

A 12

B 6

C 18

D 24

Question ID:128**Topic Name:**Mathematics – Part I-Section A

Question: If $(20C_1)^2 + 2(20C_2)^2 + 3(20C_3)^2 + \dots + 20(20C_{20})^2 = K$, then $\frac{(20!)^2 K}{40!}$ is equal to

A $\frac{1}{10}$

B $\frac{1}{5}$

C 5

D 10

Question ID:129**Topic Name:**Mathematics – Part I-Section A

Question: Let $y = y(x)$ be the solution of the differential equation $xdy + ydx = xy^2dx$, which passes through $(1, 1)$. Then $y(e^\pi)$ is equal to

A $\frac{e^{-\pi}}{1+\pi}$

B $\frac{e^{-\pi}}{1-\pi}$

C $\frac{e^\pi}{1+\pi}$

D $\frac{e^\pi}{1-\pi}$

Question ID:1210**Topic Name:**Mathematics – Part I-Section A

Question: Let $f: [-2a, 2a] \rightarrow \mathbb{R}$ be a thrice differentiable function and g be defined as $g(x) = f(a+x) + f(a-x)$. If m is the minimum number of roots of $g'(x) = 0$ in the interval $(-a, a)$ and n is the minimum number of roots of $g'''(x) = 0$ in the interval $(-a, a)$, then $m + n$ is equal to

A 1

B 2

C 4

D 5

Question ID:1211**Topic Name:**Mathematics – Part I-Section A

Let $y = y(x)$ be the solution of the initial value problem $2x \frac{dy}{dx} = 3xe^{\frac{y}{x}} + 2y$,

Question: $y(1) = \log_e 3$. Then $y\left(\frac{1}{e}\right)$ is equal to

A $-\frac{1}{e} \log_e \left(\frac{11}{6}\right)$

B $\frac{1}{e} \log_e \left(\frac{11}{6}\right)$

C $-\frac{2}{e} \log_e \left(\frac{11}{6}\right)$

D $\frac{3}{e} \log_e \left(\frac{11}{6}\right)$

Question ID:1212**Topic Name:**Mathematics – Part I-Section A

Let $f(t) = \int_0^t e^{x^2} \left((1+2x^2) \sin x + x \cos x \right) dx$. Then the value of $f(\pi) - f\left(\frac{\pi}{2}\right)$ is

Question: equal to

A $-\pi e^{\pi^2/4}$

B $-\frac{\pi}{2} e^{\pi^2/4}$

C $\frac{\pi}{2} e^{\pi^2/4}$

D $\pi e^{\pi^2/4}$

Question ID:1213**Topic Name:**Mathematics – Part I-Section A

Let $f : [-2, 2] \rightarrow \mathbb{R}$ be defined by $f(x) = x\sqrt{4-x^2}$. Then which one of the

Question: following is **NOT** true?

A f has two critical points in $(-2, 2)$

B Minimum value of f is -2 .

C $x = -2$ is a local minima.

D f is increasing in $(-\sqrt{2}, \sqrt{2})$

Question ID:1214**Topic Name:**Mathematics – Part I-Section AIf the lines $x + 2y = 1$ and $x - 3y = 1$ are tangents to a circle, then its centre will lie**Question:** on

- A $2x - y = 1$
- B $2x - y = 2$
- C $x^2 - y^2 - 14y - 2x + 14xy + 1 = 0$
- D $x^2 + y^2 + 14y - 2x - 14xy + 1 = 0$

Question ID:1215**Topic Name:**Mathematics – Part I-Section AThe mirror image of the line $\frac{x-3}{-1} = \frac{y+2}{1} = \frac{z-1}{1}$ with respect to the plane**Question:** $3x - y + 4z = 2$ is

- A $\frac{x}{-1} = \frac{y+1}{1} = \frac{z+3}{1}$
- B $\frac{x}{1} = \frac{y+1}{1} = \frac{z+3}{1}$
- C $\frac{x+1}{-1} = \frac{y}{-1} = \frac{z+2}{1}$
- D $\frac{x+1}{-1} = \frac{y}{-1} = \frac{z+2}{-1}$

Question ID:1216**Topic Name:**Mathematics – Part I-Section ALet \hat{a} and \hat{c} be collinear unit vectors such that $(\vec{b} - 4\hat{c}) = -9\hat{a}$ for a vector \vec{b} .**Question:** Then $|\vec{b}|^2$ is equal to :

- A 27
- B 25
- C 21
- D 18

Question ID:1217**Topic Name:**Mathematics – Part I-Section A

The probability that two randomly selected distinct 2-digit natural numbers have a

Question: common factor either 2 or 3 is:

- A $\frac{88}{267}$
- B $\frac{95}{267}$
- C $\frac{1}{3}$
- D $\frac{608}{1617}$

Question ID:1218**Topic Name:**Mathematics – Part I-Section A

The value of $\int_{-1}^2 |x^3 \sin \pi x| dx$ is equal to

Question:

A $\frac{11}{\pi} - \frac{4}{\pi^2} - \frac{6}{\pi^3}$

B $\frac{11}{\pi} - \frac{30}{\pi^3}$

C $\frac{11}{\pi} + \frac{4}{\pi^2} - \frac{6}{\pi^3}$

D $\frac{11}{\pi} + \frac{30}{\pi^3}$

Question ID:1219**Topic Name:**Mathematics – Part I-Section A

Question: The converse of the logical statement $(p \wedge (\sim q)) \Rightarrow (p \vee q)$ is equivalent to

A p

B q

C $\sim p$

D $\sim q$

Question ID:1220**Topic Name:**Mathematics – Part I-Section A

Consider ellipse $E: \frac{x^2}{9} + \frac{y^2}{4} = 1$ and hyperbola $H: \frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$, with eccentricities

e_1 and e_2 , respectively. If the hyperbola H passes through the focus of the ellipse

Question: E and $e_1 : e_2 = 1:3$, then the length of latus rectum of the hyperbola H is equal to

A $2\sqrt{5}$

B $4\sqrt{5}$

C $8\sqrt{5}$

D $10\sqrt{5}$

Question ID:1221**Topic Name:**Mathematics – Part I-Section B

Let $\sqrt{3}x + y = \frac{5\sqrt{3}}{2}$ and $\sqrt{5}x + y = \frac{7\sqrt{5}}{2}$ be two normal lines to the

parabola $y^2 = 2x$ at points P and Q . If the tangent lines at P and Q intersect at the

Question: point (a, b) , then the value of $b^2 - a$ is equal to _____.

Question ID:1222**Topic Name:**Mathematics – Part I-Section B

If the normal to the curve $(y - x^5)^2 = x(1 + x^2)^2$ at the point $(1, 3)$ passes through the point $(\alpha, 2)$, then $|\alpha|$ is equal to _____.

Question ID:1223**Topic Name:**Mathematics – Part I-Section B

If the system of linear equations

$$2x - 3y + 5z = \beta$$

$$\alpha x + y + 2z = 3$$

$$3x - 16y + 23z = -13$$

Question: has infinitely many solutions, then $\alpha + \beta$ is equal to _____.**Question ID:1224****Topic Name:**Mathematics – Part I-Section BLet $f : \mathbb{N} \rightarrow \mathbb{N}$ be a function defined by

$$f(n) = an^2 + bn + c. \text{ If } f(1) = 3, f(2) = 6 \text{ and } f(n) = \frac{f(n-1) + f(n-2) + 8n^2 - 3}{6}$$

Question: for every $n \geq 3$, then $f(100)$ is equal to _____.**Question ID:1225****Topic Name:**Mathematics – Part I-Section BIf the coefficient of x^8 in the expansion of $(1 - x^2)^3 (1 + 2x^3)^7 (1 + x^4)^5$ is β ,**Question:** then $|\beta|$ is equal to _____.**Question ID:1226****Topic Name:**Mathematics – Part I-Section B

If for real numbers α and β , $\int \frac{1 + x \cos x}{x(1 - x^2 e^{2 \sin x})} dx = \alpha \log_e \left| \frac{1}{x^2 e^{2 \sin x}} - \beta \right| + \text{constant}$,

Question: then the value of $10(\alpha + \beta)$ is equal to _____.**Question ID:1227****Topic Name:**Mathematics – Part I-Section BIf the mean and variance of the observations 2, 6, α , 10, 12, β , 15 are 9 and 18**Question:** respectively, then $\alpha\beta$ equals _____.**Question ID:1228****Topic Name:**Mathematics – Part I-Section BThe number of real solutions of the equation $e^{4x} + 4e^{3x} - e^{2x} - 10e^x + 6 = 0$ is**Question:** equal to _____.**Question ID:1229****Topic Name:**Mathematics – Part I-Section BLet A_1, A_2, A_3, \dots be an increasing G.P. of positive real numbers. If**Question:** $A_6 = 49A_2$ and $A_6 + A_3A_5 = 8$, then $A_7(A_1 + A_3)$ is equal to _____.**Question ID:1230****Topic Name:**Mathematics – Part I-Section BSuppose that \vec{a} , \vec{b} and \vec{c} are non-coplanar vectors in \mathbb{R}^3 . Let the components of avector \vec{n} along \vec{a} , \vec{b} and \vec{c} be 2, 5 and 3 respectively. If the components of thisvector \vec{n} along $\vec{a} + 2\vec{b} - \vec{c}$, $-2\vec{a} + \vec{b} + \vec{c}$ and $\vec{a} - \vec{b} - 2\vec{c}$ are x , y and**Question:** z respectively, then the value of $x + y - 4z$ is equal to _____.

Question ID:41231

Topic Name:Aptitude Test – Part II

'Amar Jawan Jyoti' which was conceptualised & constructed after Indo-Pakistan

Question: war of 1971, is now merged with flame of...

- A New Parliament Building
- B National War Memorial
- C Wagah Border, Punjab
- D Rastrapati Bhawan

Question ID:41232

Topic Name:Aptitude Test – Part II

Which amongst the following author has wrote the famous book "The Death and

Question: Life of Great American Cities".

- A Charles Comea
- B Richard Meier
- C Laurie Baker
- D Jane Jacob

Question ID:41233

Topic Name:Aptitude Test – Part II

"The Hall of Nations" in Pragati Maidan at New Delhi was designed essentially a three dimensional space with unit of-



Question:

- A A spheroid
- B A Decahedron
- C An Octahedron
- D A Tetrahedron

Answer Given By Candidate: **D**

Question ID:41234

Topic Name:Aptitude Test – Part II

Question: Write the full form of 'CPCB'.

- A Center Polluted Control Board
- B Central Pollution Control Board
- C Central Polluted and Control Board
- D Center for Pollution and Climate Board

Question ID:41235

Topic Name:Aptitude Test – Part II

The Basilica of Bom Jesus, a UNESCO world heritage site is located in which

Question: state of India ?

- A Daman
- B Kerala
- C Goa
- D Andaman and Nicobar Island

Question ID:41236

Topic Name:Aptitude Test – Part II

Question: The 'Vitruvian Man' is a drawing made by...

- A Rambrant
- B Raphael
- C Leonardo da Vinci
- D Picasso

Question ID:41237

Topic Name:Aptitude Test – Part II

Question: In which of the following Indian state 'The Garo-Khasi range' is located.

- A Mizoram
- B Meghalaya
- C Nagaland
- D Manipur

Question ID:41238

Topic Name:Aptitude Test – Part II

Buildings situated in hills will required to consider which of the following phenomeanas, primarily?

Question: (a) Tsunami (b) Hail (c) High Tide (d) Land slide (e) Dust storm (f) Snow

- A b, c, d
- B b, e, f
- C b, d, f
- D a, b, f

Question ID:41239

Topic Name:Aptitude Test – Part II

Question: 'Vienna Peace Congress' was held during which of the following years?

- A 1813-1814
- B 1814-1815
- C 1815-1816
- D 1812-1813

Question ID:41240

Topic Name:Aptitude Test – Part II

Question: Which of the following is the longest river of the peninsular India ?

A Narmada

B Godavari

C Mahanadi

D Tapi

Question ID:41241

Topic Name:Aptitude Test – Part II

Question: At the summer solstice, the sun rises in which direction?

A East

B West

C Far to the North-East

D Far North-West

Question ID:41242

Topic Name:Aptitude Test – Part II

Match the Architectural style given in List-I with the famous Building in List-II

List-I

A. Industrial Building Style

B. Brutalist Style

C. Blogitecture Style

D. Gothic Architectural Style

List-II

I. The Burlin Brain Library, Burlin

II. Westminster Abbey

III. Eiffel Tower

IV. Secretariat Building, Chandigar

Question: Choose the correct option.

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-I, C-II, D-III

Question ID:41243

Topic Name:Aptitude Test – Part II

Given below are two statements-

Statement-I: Taj Mahal is placed on the northern extremity of the bagh instead of middle to take advantage of the river bank.

Statement II: The white Marble of Taj Mahal is used to achieve contrast with the

Question: red sandstone of the surrounding structures.

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

D Statement I is not correct but Statement II is correct

Question ID:41244

Topic Name:Aptitude Test – Part II

Question:How many minimum points are required to connect to create a 2D plane?

- A One
- B Three
- C Two
- D Four

Answer Given By Candidate:**B**

Question ID:41245

Topic Name:Aptitude Test – Part II

An external wall of a room has 4 opening for windows (i.e. A, B, C, D). size of A and B are same i.e. having width of 1.0 m and height 1.5 m. Height of C and D is same as of A and B. Width of C is 2.5 m, what is the width of D, if total opening

Question: area is 9 m^2 .

- A 1.0 m
- B 1.5 m
- C 2.5 m
- D 2.0 m

Question ID:41246

Topic Name:Aptitude Test – Part II

Prestigious international Aga Khan award winning project, 'Slum Networking', a

Question: community driven approach, at Indore is designed by ___?

- A Himanshu Parikh
- B Uttam Jain
- C Hasmukh Patel
- D Neelam Manjunath

Question ID:41247

Topic Name:Aptitude Test – Part II

'The Garden of the Heart' documentary is based on which of the following





Question: renowned architect ?

- A Santiago Culatrava
- B Renzo Piano
- C Kisho Kurokawa
- D Joseph Allen Stein

Question ID:41248

Topic Name:Aptitude Test – Part II
List-I

List-II

- A.  I. India Habitat Centre by Stein Joseph
- B.  II. Guggenheim Museum by Frank Lloyd wright
- C.  III. Modern school, New Delhi by Jasbir Sachdev & Rosmerry Sachdev
- D.  IV. Heydear Aliyev Centre by Zaha Hadid

Question:

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

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

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

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

Answer Given By Candidate:**B**

Question ID:41249

Topic Name:Aptitude Test – Part II

Identify the missing number in given image.

36	100	16
49	100	9
64	?	25

Question:

A 100

B 169

C 122

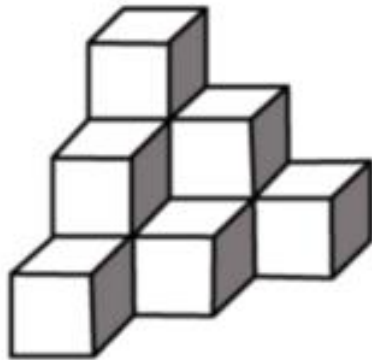
D 121

Answer Given By Candidate:**D**

Question ID:41250

Topic Name:Aptitude Test – Part II

Identify the number of cubes in given question image.



Question:

A 12

B 10

C 11

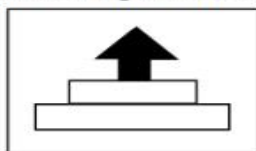
D 07

Answer Given By Candidate:B

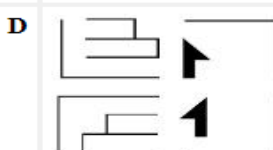
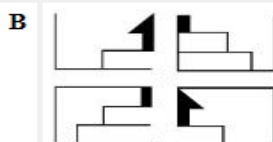
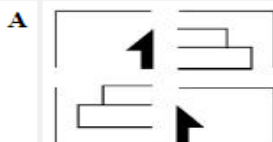
Question ID:41251

Topic Name:Aptitude Test – Part II

Answer figure shows four parts of an image. After joining these four parts which answer figure will show the exact copy of the question figure ?



Question:

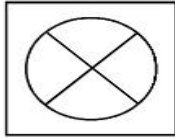


Answer Given By Candidate:C

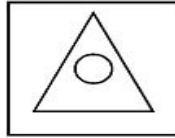
Question ID:41252

Topic Name:Aptitude Test – Part II

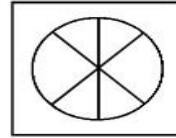
Understand the relationship between 1 and 2. Choose the missing figure from the given options, such that a similar relationship is established between 3 and 4.



1



2



3



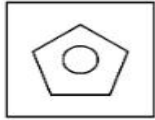
4

Question:

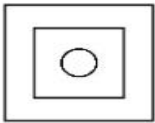
A



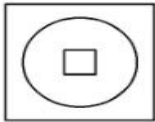
B



C



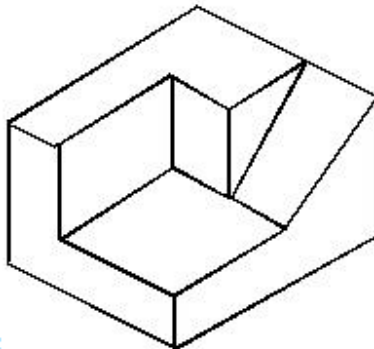
D



Question ID:41253

Topic Name:Aptitude Test – Part II

Find out the number of surfaces of given 3D object in question figure.



Question:

A 11

B 9

C 12

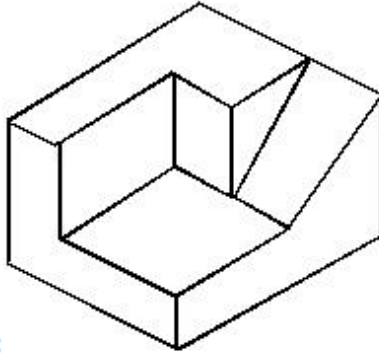
D 10

Answer Given By Candidate:A

Question ID:41253

Topic Name:Aptitude Test – Part II

Find out the number of surfaces of given 3D object in question figure.



Question:

A 11

B 9

C 12

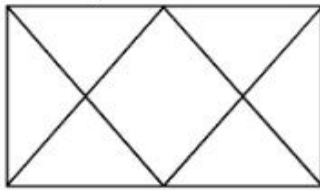
D 10

Answer Given By Candidate:A

Question ID:41254

Topic Name:Aptitude Test – Part II

Identify the total number of triangles in question figure given below ?



Question:

A 12

B 14

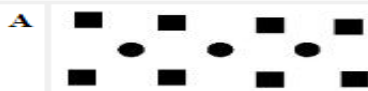
C 16

D 06

Question ID:41255

Topic Name:Aptitude Test – Part II

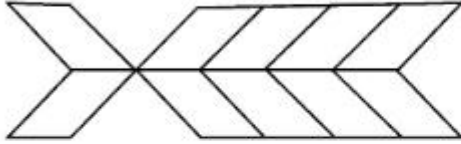
Question: Which of the following compositions best suits for 'Variety'?



Question ID:41256

Topic Name:Aptitude Test – Part II

Identify the total number of rectangles in given image.



Question:

A 20

B 22

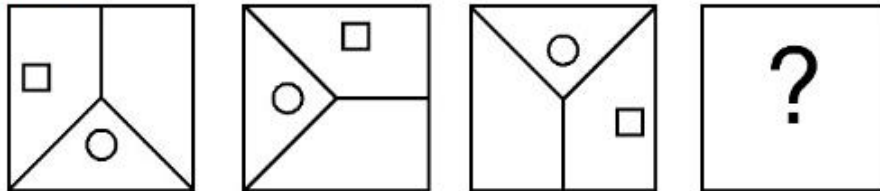
C 10

D 16

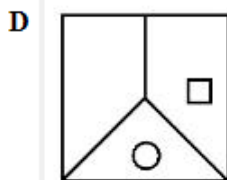
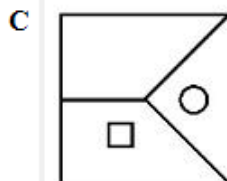
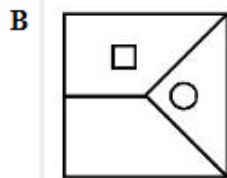
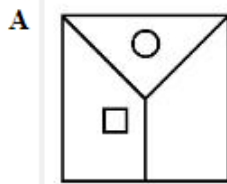
Question ID:41257

Topic Name:Aptitude Test – Part II

Which of the answer figure will complete the sequence of the three problem figures?



Question:



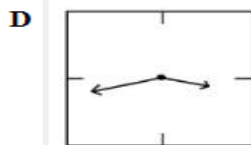
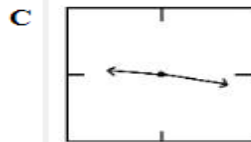
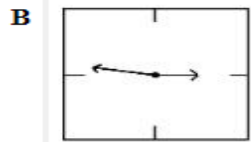
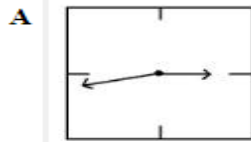
Answer Given By Candidate:C

Question ID:41258

Topic Name:Aptitude Test – Part II

Shown below are mirror images of wall clock. Which one of the options shows

Question: time 21.16 correctly ?

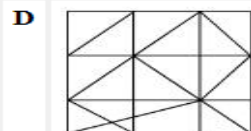
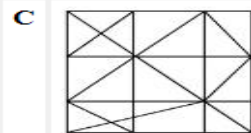
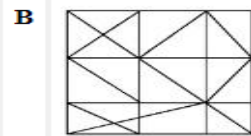
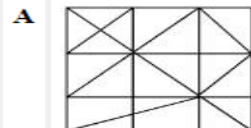
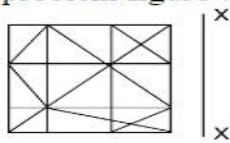


Answer Given By Candidate:C

Question ID:41259

Topic Name:Aptitude Test – Part II

Which one of the answer figure is the most appropriate mirror image of the problem figure with respect to 'X-X'?

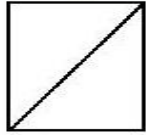


Answer Given By Candidate:C

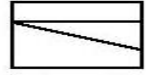
Question ID:41260

Topic Name:Aptitude Test – Part II

Question figure shows top view/plan, Front elevation and Right side elevation of the same object. Identify the most appropriate 3D view of this object from given answer figures.



Top



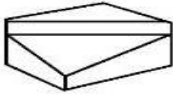
Front



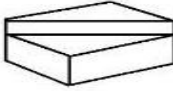
Right side
elevation

Question: elevation

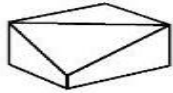
A



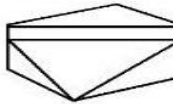
B



C



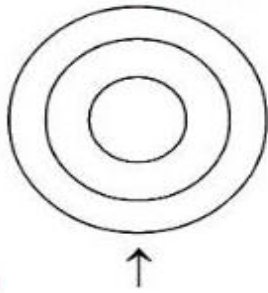
D



Question ID:41261

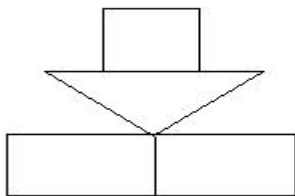
Topic Name:Aptitude Test – Part II

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

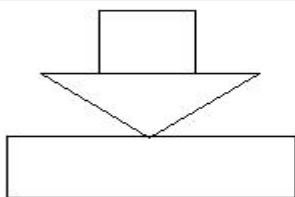


Question:

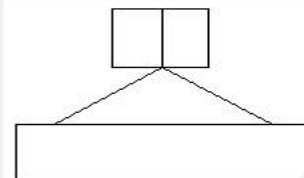
A



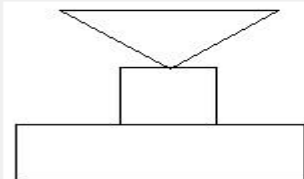
B



C



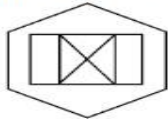
D



Question ID:41262

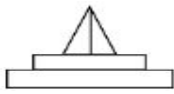
Topic Name:Aptitude Test – Part II

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

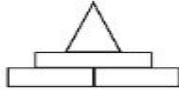


Question: ↑ Top View

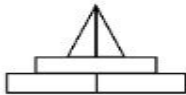
A



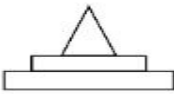
B



C



D

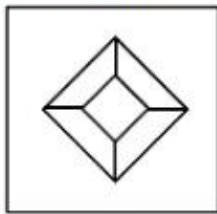


Answer Given By Candidate:A

Question ID:41263

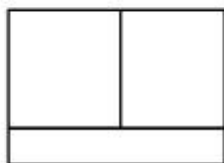
Topic Name:Aptitude Test – Part II

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



Question: ↑

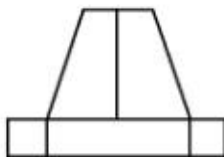
A



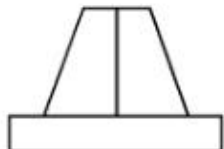
B



C



D

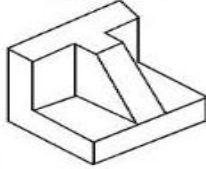


Answer Given By Candidate:D

Question ID:41264

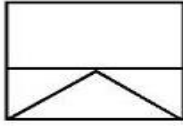
Topic Name:Aptitude Test – Part II

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

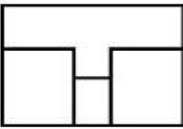


Question:

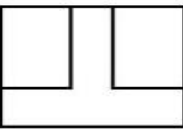
A



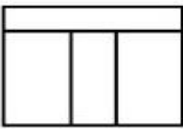
B



C



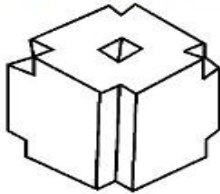
D



Question ID:41265

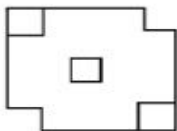
Topic Name:Aptitude Test – Part II

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

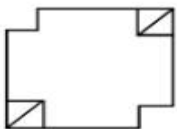


Question:

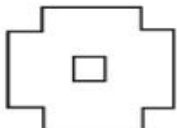
A



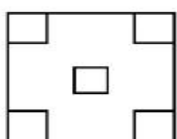
B



C



D

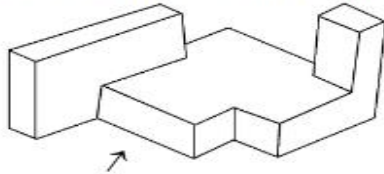


Answer Given By Candidate:A

Question ID:41266

Topic Name:Aptitude Test – Part II

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

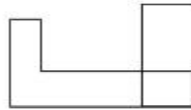


Question:

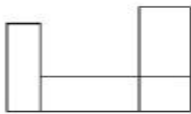
A



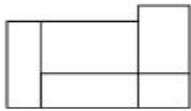
B



C



D

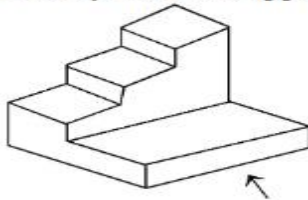


Answer Given By Candidate:C

Question ID:41267

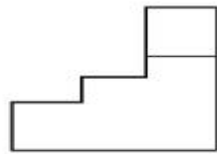
Topic Name:Aptitude Test – Part II

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

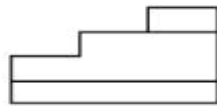


Question:

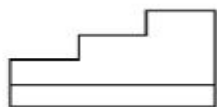
A



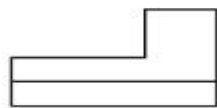
B



C



D

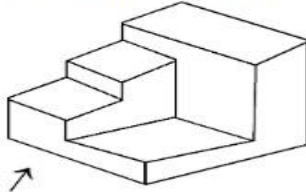


Answer Given By Candidate:C

Question ID:41268

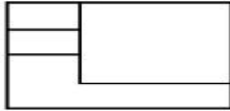
Topic Name:Aptitude Test – Part II

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

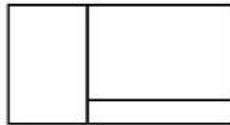


Question:

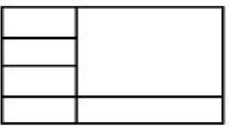
A



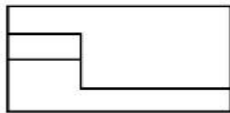
B



C



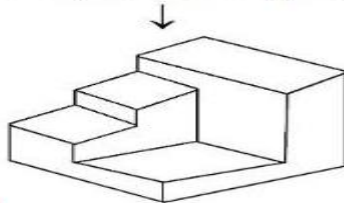
D



Question ID:41269

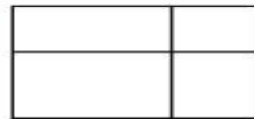
Topic Name:Aptitude Test – Part II

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

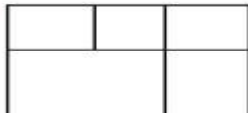


Question:

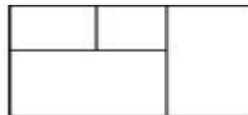
A



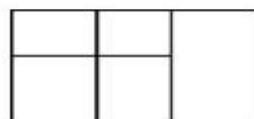
B



C



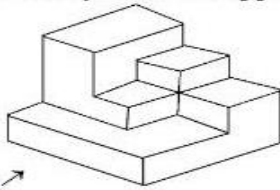
D



Question ID:41270

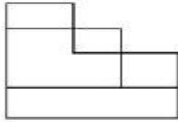
Topic Name:Aptitude Test – Part II

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

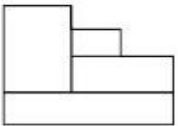


Question: →

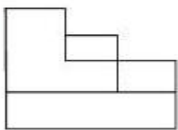
A



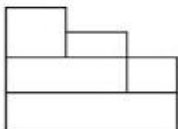
B



C



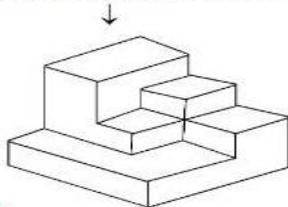
D



Question ID:41271

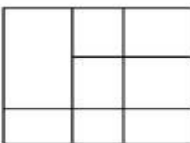
Topic Name:Aptitude Test – Part II

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

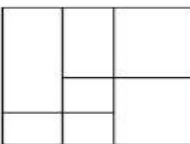


Question:

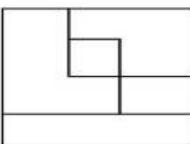
A



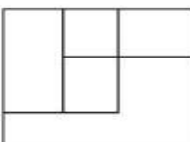
B



C



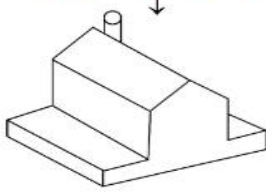
D



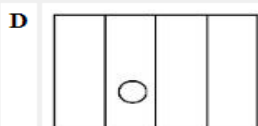
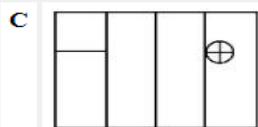
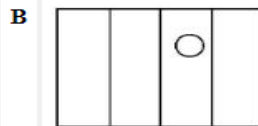
Question ID:41272

Topic Name:Aptitude Test – Part II

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



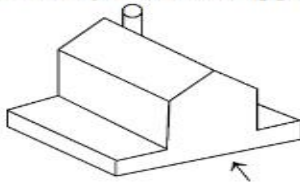
Question:



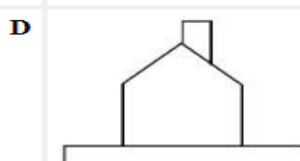
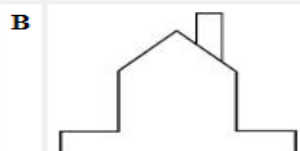
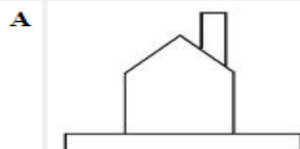
Question ID:41273

Topic Name:Aptitude Test – Part II

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



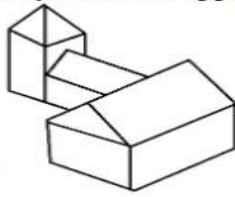
Question:



Question ID:41274

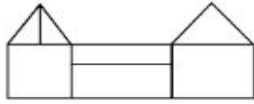
Topic Name:Aptitude Test – Part II

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

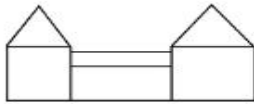


Question:

A



B



C



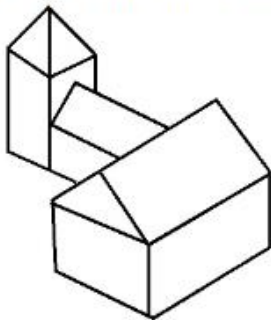
D



Question ID:41275

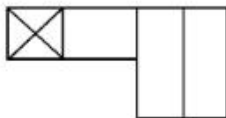
Topic Name:Aptitude Test – Part II

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

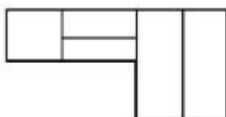


Question:

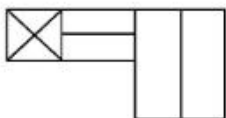
A



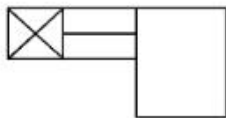
B



C



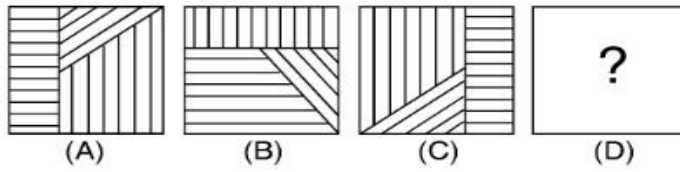
D



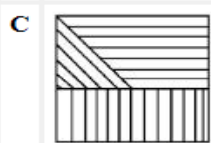
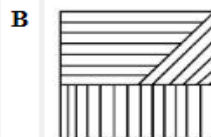
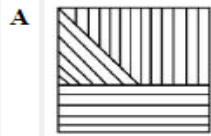
Question ID:41276

Topic Name:Aptitude Test – Part II

In the question figure A and B have certain relation. Choose one of the answer figures from given options, so that similar relation will be established between C and D.



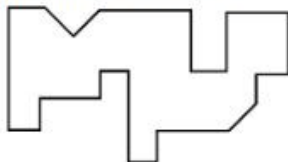
Question:



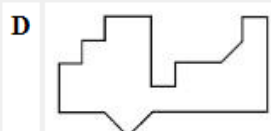
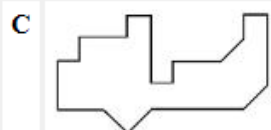
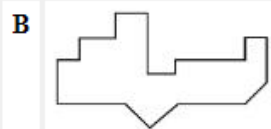
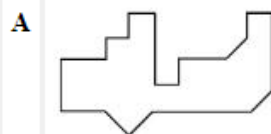
Question ID:41277

Topic Name:Aptitude Test – Part II

Which of the following answer figures will perfectly interlock with the bottom of the question figure.



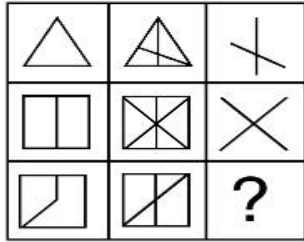
Question:



Question ID:41278

Topic Name:Aptitude Test – Part II

Find out which of the answer figures completes the matrix sequence of question figure.



Question:

A



B



C



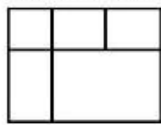
D



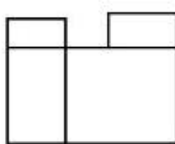
Question ID:41279

Topic Name:Aptitude Test – Part II

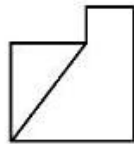
Question figure shows top view/plan, front elevation and right hand side elevation of an object. Identify the most appropriate 3D view of this object.



TOP



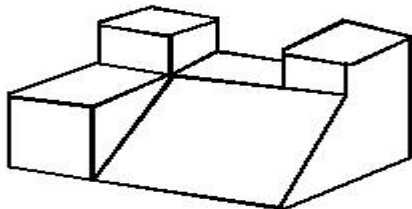
FRONT



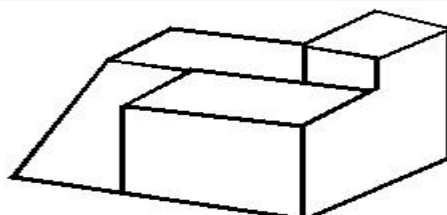
RIGHT SIDE

Question:

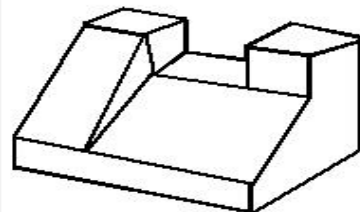
A



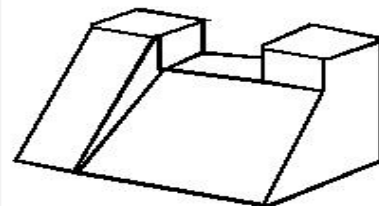
B



C



D



Question ID:41280

Topic Name:Aptitude Test – Part II

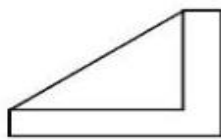
Question figure shows top view/plan, front elevation and right hand side elevation of an object. Identify the most appropriate 3d view of this object.



TOP

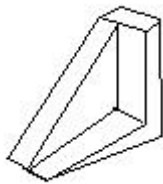


Question: FRONT

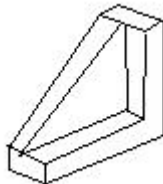


RIGHT SIDE

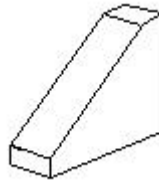
A



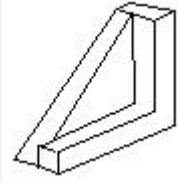
B



C



D



Question ID:41281

Topic Name:Drawing Test – Part III

Draw a proportionate sketch of given reference image. Use any black & white rendering technique for shading.



Question:

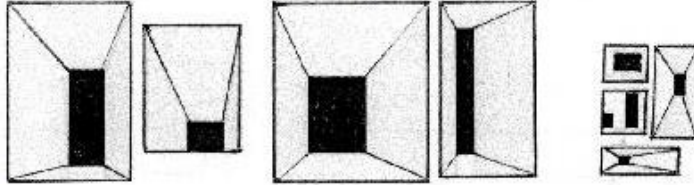
Question ID:41282

Topic Name:Drawing Test – Part III

Draw a picture of any sports event you have attended. Use colours of your choice to render the picture.

OR

Using given figure of various sizes create a Jali partition of suitable size. Use colours of your choice to render the composition.



Question:

Answer Given By Candidate:**Drawing Question**

Question ID:52283

Topic Name:Planning – Part III

Question: Which city amongst the following cities is not a presidency city of colonial India.

- A Bombay
- B Delhi
- C Calcutta
- D Madras

Question ID:52284

Topic Name:Planning – Part III

Match List I with List II

List I

- A. Swachh Bharat Mission
- B. Jawahar Nehru National Urban Renewal Mission
- C. Smart City
- D. National Housing and Habital Policy

List II

- I. 2015
- II. 2014
- III. 2005
- IV. 1998

Question:

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

Question ID:52285

Topic Name:Planning – Part III

Question: PPP Stands for:

- A Push Pull Plan
- B Parent Partnership Program
- C Public Private Partnership
- D People Private Partnership

Question ID:52286

Topic Name:Planning – Part III

Question: Which of the following is the lowest Land point on the earth.

- A Marina Trench
- B Dead Sea
- C Capetown
- D Bali

Question ID:52287

Topic Name:Planning – Part III

The Prime minister, Union cabinet minister, chief minister and council of ministers

Question: are member of-

- A National Development Council
- B Regional Council
- C Planning Commission
- D Zonal Council

Question ID:52288

Topic Name:Planning – Part III

Question: Identify the appropriate sector of economy for 'Education Activity'.

- A Quaternary
- B Primary
- C Secondary
- D Tertiary

Question ID:52289

Topic Name:Planning – Part III

Who amongst the following was appointed as first Town Planning Advisor to

Question: Government of India.

- A H.V. Lancaster
- B Le - Corbusier
- C Petric Geddes
- D Swinton Jacob

Question ID:52290

Topic Name:Planning – Part III

Question: HUDCO Stands for:

- A Haryana Urban Development Corporation
- B Housing in Urban Delhi and Community Development
- C Housing and Urban Development Corporation LTD
- D Housing for Urban dwellers and Community Organization

Question ID:52291

Topic Name:Planning – Part III

As per UNCHS three most significant factors responsible for urban growth are

- (A). Economic and Industrial Policies
- (B). Changes in Political set up
- (C). Changes in Legal/Administrative status

Question: (D). Improvement in quality of life in cities.

A A, B, C Only

B B, C, D Only

C A, C, D Only

D A, B, D Only

Question ID:52292

Topic Name:Planning – Part III

The inequality between duration of day and night become greater or more, marked

Question: when we travel from ____ to ____

A East to West

B Tropic of cancer to tropic of capricorn

C Equator to Poles

D West to East

Question ID:52293

Topic Name:Planning – Part III

Question: Oldest continuously inhabited city in India.

A Varanasi

B Ayodhya

C Dwarka

D Puri

Question ID:52294

Topic Name:Planning – Part III

Given below are two statements:

Statement I : Jawahar Lal Nehru Urban Renewal Mission (JNNURM) is a sponsored scheme of central govt.

Statement II : For large cities, the financial contribution by central government and

Question: urban, local bodies 50%, 20% and 30% respectively under JNNURM Scheme.

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

D Statement I is not correct but statement II is correct

Question ID:52295

Topic Name:Planning – Part III

Question: Which one of the following lakes is a manmade lake ?

- A Dal
- B Wular
- C Gobind sagar
- D Sambhar

Question ID:52296

Topic Name:Planning – Part III

Question: Identify the factor which does not affect economic development.

- A Natural Resources
- B Male - Female Ratio
- C Human Resources
- D Technology

Question ID:52297

Topic Name:Planning – Part III

Given below are two statements :

Statement I : The duration of Jawahar Lal Nehru Renewal Mission was 7 years.

Question: Statement II : The number of cities covered under JNNURM is 59.

- 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
- D Statement I is not correct but statement II is correct

Question ID:52298

Topic Name:Planning – Part III

Match List I with List II

List I

Land Uses

- (A). Commercial
- (B). Open Spaces
- (C). Public and semi public
- (D). Residential

List II

Color cocks

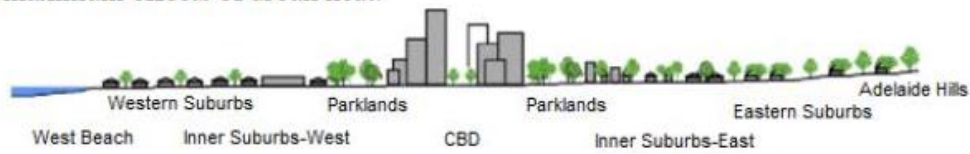
- I. Yellow
- II. Red
- III. Blue
- IV. Green

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

Question ID:52299

Topic Name:Planning – Part III

Urban heat is highly dependent to solar radiation and temperature drops significantly after sunset. In the given figure, Identify which area will have maximum effects of urban heat.



Question: Averaged near-surface temperature profile of Adelaide measured between 26 July and 15 August 2013.

- A Eastern suburbs
- B CBD
- C Parklands
- D Western Suburbs

Question ID:522100

Topic Name:Planning – Part III

The housing stock of a town has total number of 90-90 dwelling units. Present population of the town is 45,450. Assuming an average household size of 4.5, the

Question: housing shortage in percentage is-

- A 14
- B 12
- C 10
- D 11

Question ID:522101

Topic Name:Planning – Part III

Since the conflict began less than a week ago, more than 6,00,000 people have fled Ukraine and millions more are displaced inside the country. UNHCR estimates that more than four million people could flee Ukraine and seek protection and support across the region. The inter-agency Regional Refugee Response Plan is driven by four key objectives: support host countries to ensure every refuge has access to safety and international protection ensuring host countries are able to provide timely and life-saving humanitarian assistance for refugees and third country nationals; facilitate a whole-of-society approach for solutions; ensure effective coordination among partners at the country and regional level.

Question: What is UNHCR stands for in this paragraph?

- A United Nations Higher Committee for Residents
- B United Nations Higher Commission for Region
- C United Nations High Commissioner for Refugees
- D United Nations Higher Committee for Refugees

Question ID:522102

Topic Name:Planning – Part III

Since the conflict began less than a week ago, more than 6,00,000 people have fled Ukraine and millions more are displaced inside the country. UNHCR estimates that more than four million people could flee Ukraine and seek protection and support across the region. The inter-agency Regional Refugee Response Plan is driven by four key objectives: support host countries to ensure every refuge has access to safety and international protection ensuring host countries are able to provide timely and life-saving humanitarian assistance for refugees and third country nationals; facilitate a whole-of-society approach for solutions; ensure effective coordination among partners at the country and regional level.





Question: What is UNHCR stands for in this paragraph?

- A Romania
- B Germany
- C Russia
- D NATO

Question ID:522103

Topic Name:Planning – Part III

Match the following:

List I	List II	
I. Cadiz, Spain	a. 	III. Toledo
II. Sun city USA	b. 	IV. Barcelone
		c. 
		d. 

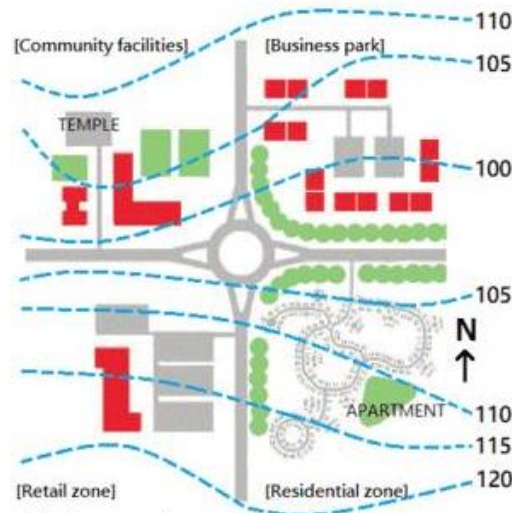
Question:

- A I-d, II-c, III-a, IV-b
- B I-c, II-d, III-a, IV-b
- C I-a, II-b, III-c, IV-d
- D I-b, II-a, III-c, IV-d

Question ID:522104

Topic Name:Planning – Part III

In given figure which zone is on North-West direction



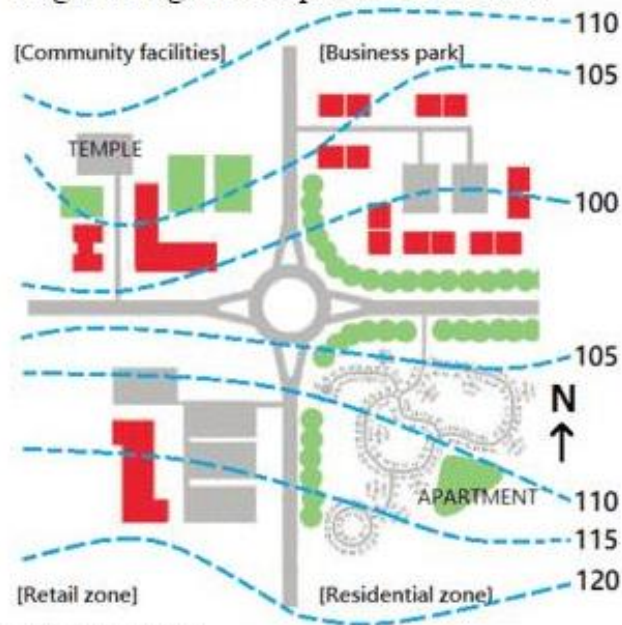
Question: Suburban sprawl

- A Retail
- B Residential
- C Community Facilities
- D Business Park

Question ID:522105

Topic Name:Planning – Part III

In given figure temple is situated at:



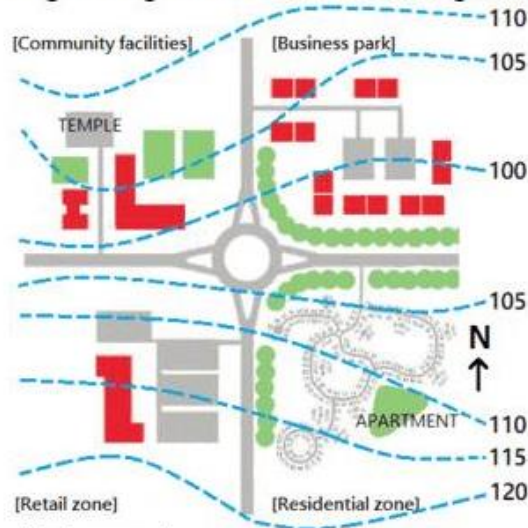
Question: Suburban sprawl

- A 5 m higher than round about
- B 10 m higher than round about
- C 5m higher than Residential zone
- D 5 m lower than Business Park

Question ID:522106

Topic Name:Planning – Part III

In given figure which area is having cul-de-sacs.



Question: Suburban sprawl

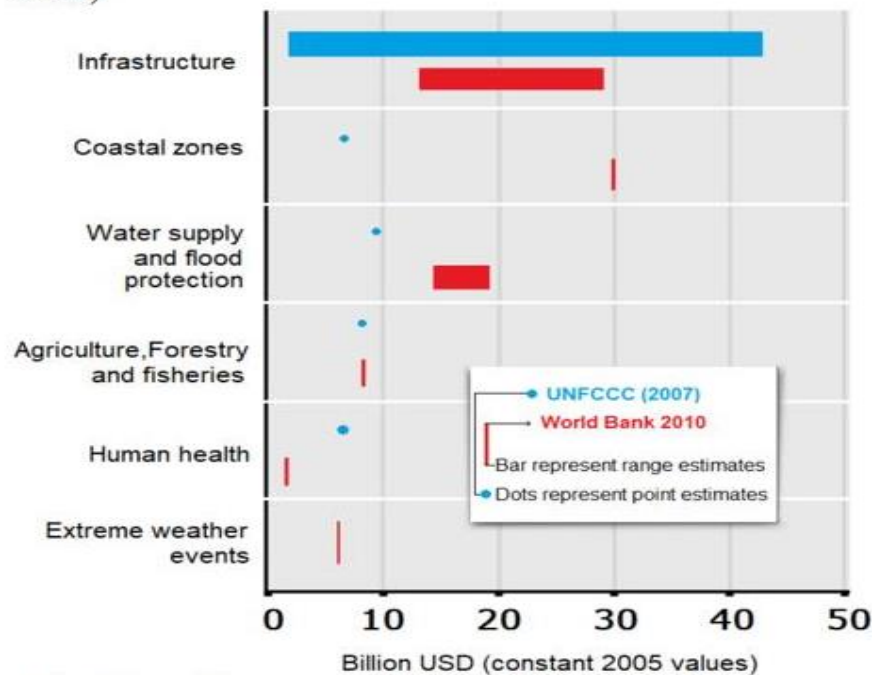
- A Retail Zone
- B Business Park Zone
- C Residential Zone
- D Community Facilities

Question ID:522107

Topic Name:Planning – Part III

Statement I : Infrastructure is really expensive due to adoption of climate change in developing countries.

Statement II : The world bank predict that shoring up coastal zones will cost \$ 40 billion, while the UNFCCC predicts a \$ 5 billion price tag (both based on 2005 US dollar)



In the light of the statements, choose the most appropriate answer from the 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
- D Statement I is not correct but statement II is correct

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
B	C	D	D	A	C	C	D	B	B
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
A	B	C	C	A	B	A	B	D	C
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
2	9	5	19704	227	5	70	2	8	13
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
B	D	C	B	C	C	B	C	B	B
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
C	C	A	B	B	A	D	C	B	B
51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
C	C	A	A	B	B	C	A	C	A
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
B	B	D	B	A	C	C	D	C	C
71.	72.	73.	74.	75.	76.	77.	78.	79.	80.
D	B	B	B	C	C	C	B	A	B
81.	82.	83.	84.	85.	86.	87.	88.	89.	90.
		D	C	B	A	A	A	C	C
91.	92.	93.	94.	95.	96.	97.	98.	99.	100.
C	C	A	C	C	B	C	B	B	C
101.	102.	103.	104.	105.	106.	107.			
C	Dropped	B	C	B	C	C			