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JEE PAPER 2

2022 SESSION- 1

QUESTION PAPER

JEE PAPER 2 2022 SESSION 1

Question ID:121
Topic Name: Mathematics – Part I-Section A

Question: The equation of the plane passing through the intersection of the planes $\vec{r}\cdot\left(\hat{i}+2\hat{j}-\hat{k}\right)=3$ and $\vec{r}\cdot\left(2\hat{i}-\hat{j}+3\hat{k}\right)=2$, and parallel to the line $\frac{x-1}{1}=\frac{y-2}{2}=\frac{z-3}{1}$, is

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

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

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

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

Question ID:122
Topic Name: Mathematics – Part I-Section A

Question: Let $f, g: \mathbb{R} \to \mathbb{R}$ 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 $[0, \pi]$, where the function $fog + gof$ 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 $x \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$, $\tan x + \sin x = m$, $\tan x - \sin x = n$. Then the possible ordered pair (m, n) is

Question:

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

Let $f(x) = (x+4)^2 - 4, x \geq -4$. Then $\{x : f(x) = f^{-1}(x)\}$ is equal to

Question:

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

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

C $\{-4, 3\}$

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

Question ID:125
Topic Name: Mathematics – Part I-Section A

Let z be a complex number and $\theta = \tan^{-1}\left(\left|\frac{\mathrm{Im}(z)}{\mathrm{Re}(z)}\right|\right)$ be an acute angle. If $\arg(z) = \theta - \pi$, $\left|\mathrm{Re}(z)\right| = \left|\mathrm{Re}(1-2i)^{-3}\right|$ and $\left|\mathrm{Im}(z)\right| = \left|\mathrm{Im}(1-2i)^{-3}\right|$, then $125\,\mathrm{Im}\left(z + \frac{2i}{\bar{z}}\right)$ is equal to

Question:

A −2752

B − 1377

C −1152

D −627

Question ID:126
Topic Name: Mathematics – Part I-Section A

Let $A = [a_{ij}]$, $\det(A) \neq 0$, and $B = [b_{ij}]$ be two 3×3 matrices. If $b_{ij} = 3^{i-j} a_{ij}$ for all $i, j = 1, 2, 3$ then

Question:

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 A

Question: Let A be a 3×3 symmetric matrix with integer entries. If the sum of all the 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 $(20C_1)^2 + 2(20C_2)^2 + 3(20C_3)^2 + \ldots + 20(20C_{20})^2 = K$, 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 $f: [-2a, 2a] \to \mathbb{R}$ 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

Question: Let $y = y(x)$ be the solution of the initial value problem $2x\frac{dy}{dx} = 3xe^{\frac{y}{x}} + 2y$, $y(1) = \log_e 3$. 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

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

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

Question ID:1214
Topic Name: Mathematics – Part I-Section A

Question: If the lines $x+2y=1$ and $x-3y=1$ are tangents to a circle, then its centre will lie 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 A

Question: The mirror image of the line $\frac{x-3}{-1}=\frac{y+2}{1}=\frac{z-1}{1}$ with respect to the plane $3x-y+4z=2$ 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 A

Question: Let $\hat{a}$ and $\hat{c}$ be collinear unit vectors such that $\left(\vec{b}-4\hat{c}\right)=-9\hat{a}$ for a vector $\vec{b}$. 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

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

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

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

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

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

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

Question: If the system of linear equations

$2x - 3y + 5z = \beta$
$\alpha x + y + 2z = 3$
$3x - 16y + 23z = -13$

has infinitely many solutions, then $\alpha + \beta$ is equal to _____.

Question ID:1224
Topic Name: Mathematics – Part I-Section B

Question: Let $f : \mathbb{N} \to \mathbb{N}$ be a function defined by

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

for every $n \geq 3$, then $f(100)$ is equal to _____.

Question ID:1225
Topic Name: Mathematics – Part I-Section B

Question: If the coefficient of x^8 in the expansion of $(1 - x^2)^3 (1 + 2x^3)^7 (1 + x^4)^5$ is β, then $|\beta|$ is equal to _____.

Question ID:1226
Topic Name: Mathematics – Part I-Section B

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

then the value of $10(\alpha + \beta)$ is equal to _____.

Question ID:1227
Topic Name: Mathematics – Part I-Section B

Question: If the mean and variance of the observations 2, 6, α, 10, 12, β, 15 are 9 and 18 respectively, then αβ equals _____.

Question ID:1228
Topic Name: Mathematics – Part I-Section B

Question: The number of real solutions of the equation $e^{4x} + 4e^{3x} - e^{2x} - 10e^{x} + 6 = 0$ is equal to _____.

Question ID:1229
Topic Name: Mathematics – Part I-Section B

Question: Let A_1, A_2, A_3 ..... be an increasing G.P. of positive real numbers. If $A_6 = 49A_2$ 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 B

Question: Suppose that $\vec{a}, \vec{b}$ and $\vec{c}$ are non-coplanar vectors in R^3. Let the components of a vector $\vec{n}$ along $\vec{a}, \vec{b}$ and $\vec{c}$ be 2, 5 and 3 respectively. If the components of this vector $\vec{n}$ 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 z respectively, then the value of $x + y - 4z$ is equal to _____.

Question ID:41231
Topic Name: Aptitude Test – Part II

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

Question: Which amongst the following author has wrote the famous book "The Death and 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
Question: "The Hall of Nations" in Pragati Maidan at New Delhi was designed essentially a three dimensional space with unit of-

A A spheroid

B A Decahedron

C An Octahedron

D A Tetrahedron

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
Question: The Basilica of Bom Jesus, a UNESCO world heritage site is located in which 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
Question: Buildings situated in hills will required to consider which of the following phenomeanas, primarily?
(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	List-II
A. Industrial Building Style	I. The Burlin Brain Library, Burlin
B. Brutalist Style	II. Westminister Abbey
C. Blogitecture Style	III. Eiffel Tower
D. Gothic Architectural Style	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 northen 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 red sandstone of the surrounding structures.

Question:

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

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 area is 9 m^2.

Question:

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 community driven approach, at Indore is designed by ___?

Question:

A Himanshu Parikh

B Uttam Jain

C Hasmukh Patel

D Neelam Manjunath

Question ID:41247
Topic Name: Aptitude Test – Part II
Question: 'The Garden of the Heart' documentary is based on which of the following 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

Question ID:41249
Topic Name: Aptitude Test – Part II

Identify the missing number in given image.

Question:

36	100	16
49	100	9
64	?	25

A 100

B 169

C 122

D 121

Question ID:41250
Topic Name: Aptitude Test – Part II

Identify the number of cubes in given question image.

Question:

A 12

B 10

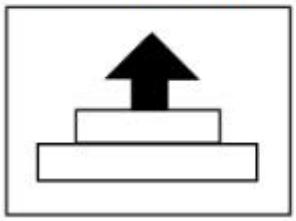
C 11

D 07

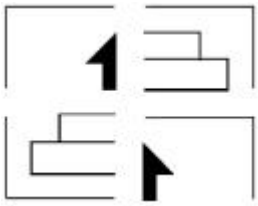
Question ID:41251
Topic Name: Aptitude Test – Part II

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 ?

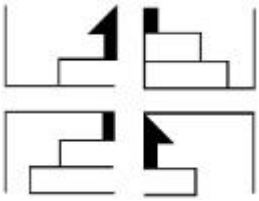
Question:



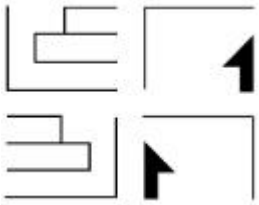
A



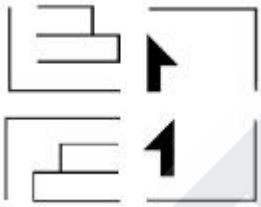
B



C



D

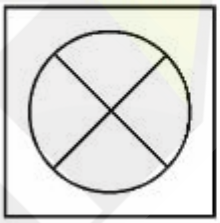


Question ID:41252

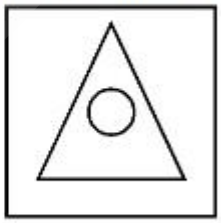
Topic Name: Aptitude Test – Part II

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.

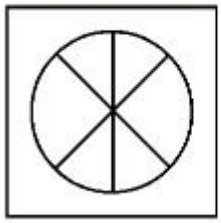
Question:



1



2

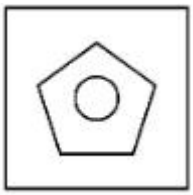


3

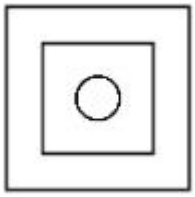
4

A

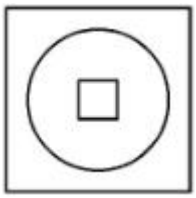
B



C

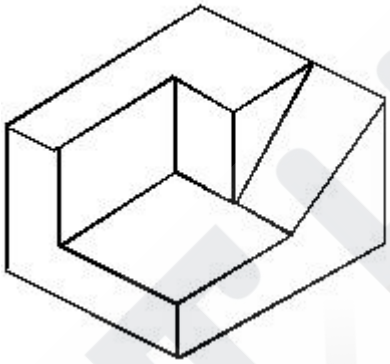


D



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

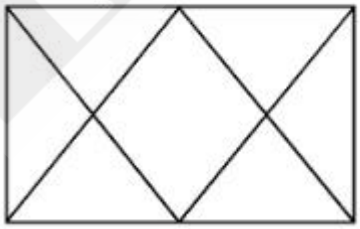
B 9

C 12

D 10

Question ID:41254
Topic Name: Aptitude Test – Part II

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



Question:

A 12

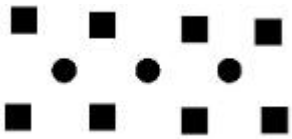
B 14

C 16

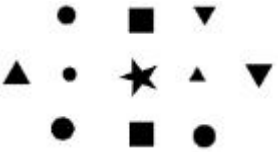
D 06

Question ID:41255
Topic Name: Aptitude Test – Part II
Question: Which of the following compositions best suits for 'Variety'?

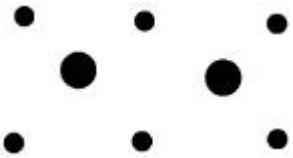
A



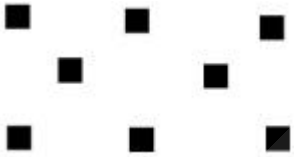
B



C

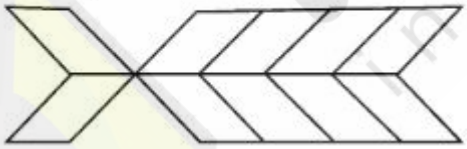


D



Question ID:41256
Topic Name: Aptitude Test – Part II
Identify the total number of rectangles in given image.

Question:



A 20

B 22

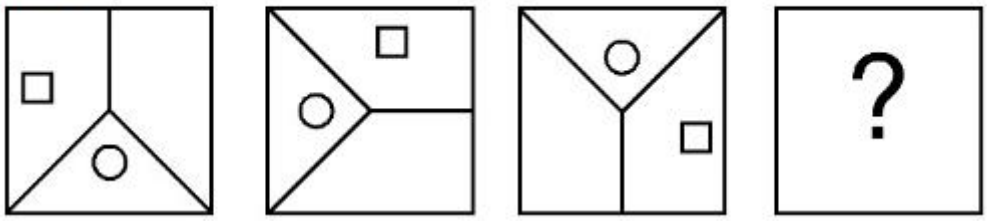
C 10

D 16

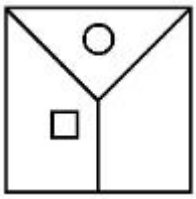
Question ID:41257
Topic Name: Aptitude Test – Part II

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

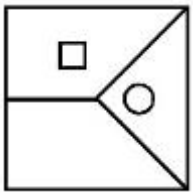
Question:



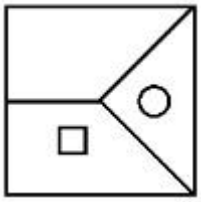
A



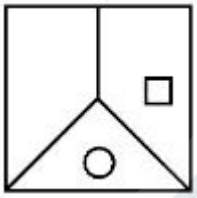
B



C



D



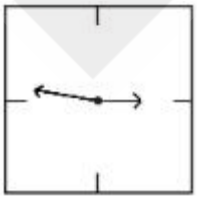
Question ID:41258

Topic Name: Aptitude Test – Part II

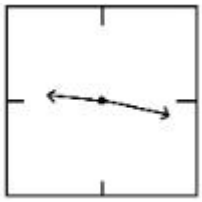
Question: Shown below are mirror images of wall clock. Which one of the options shows time 21.16 correctly ?

A

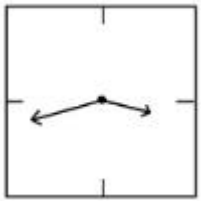
B



C



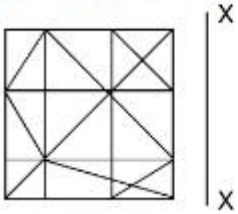
D



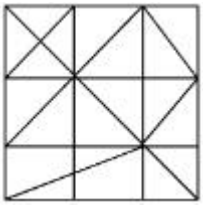
Question ID:41259

Topic Name: Aptitude Test – Part II

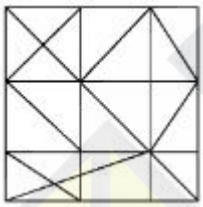
Question: Which one of the answer figure is the most appropriate mirror image of the problem figure with respect to 'X-X'?



A



B

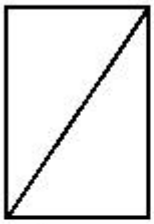


C

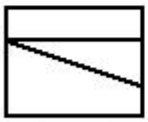
D

Topic Name: Aptitude Test – Part II

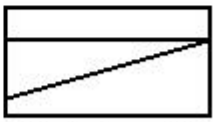
Question figure shows top view/plan, Front elevation and Right side elevation of the same object. Identify the most appropriate 3D view of this object from given answer figures.



Top



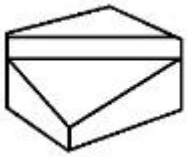
Front elevation



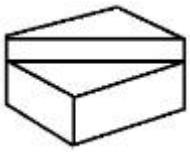
Right side elevation

Question:

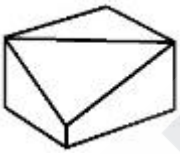
A



B



C

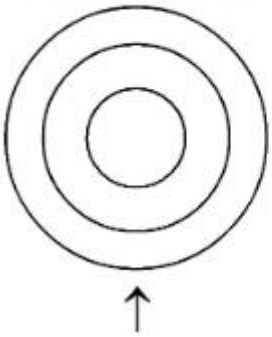


D

Question ID:41261

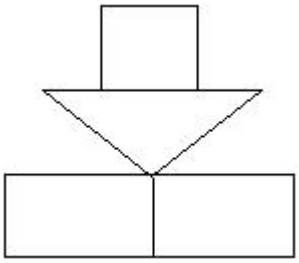
Topic Name: Aptitude Test – Part II

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

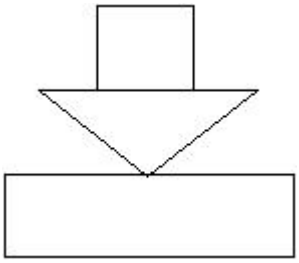


Question:

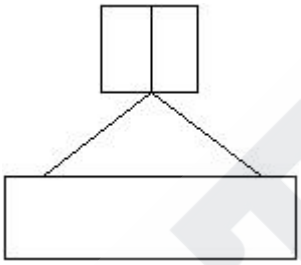
A



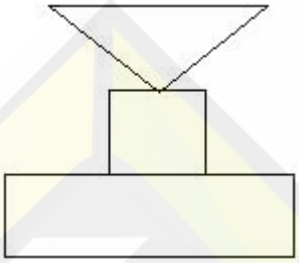
B



C

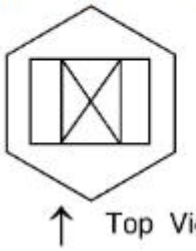


D



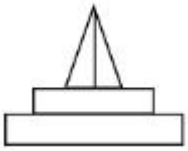
Question ID:41262
Topic Name: Aptitude Test – Part II

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

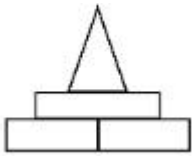


Question:

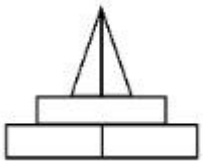
A



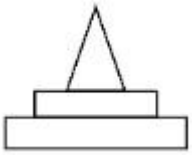
B



C



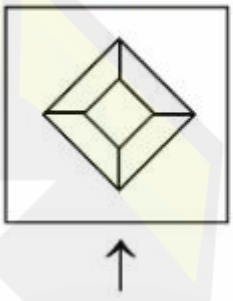
D



Question ID:41263

Topic Name: Aptitude Test – Part II

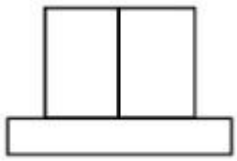
Question figure shows plan of an object. Looking in the direction of arrow, identify the correct elevation from given answer figures.



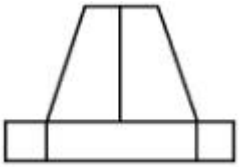
Question:

A

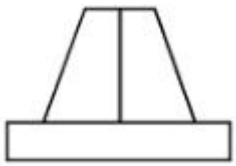
B



C



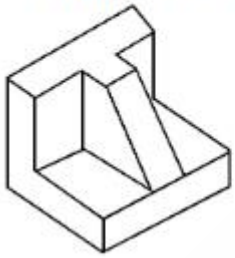
D



Question ID:41264

Topic Name: Aptitude Test – Part II

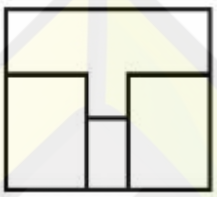
Question figure shows 3D view of an object. Identify the most appropriate top view/plan of given 3D object from answer figures.



Question:

A

B

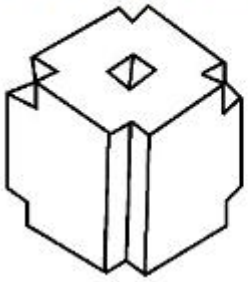


C

D

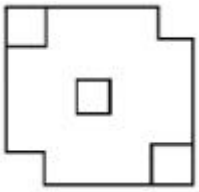
Question ID:41265
Topic Name: Aptitude Test – Part II

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

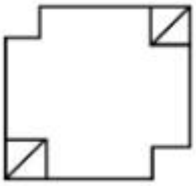


Question:

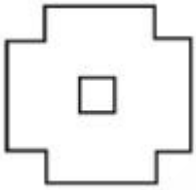
A



B



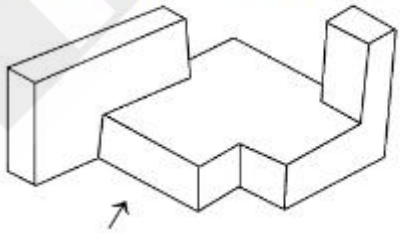
C



D

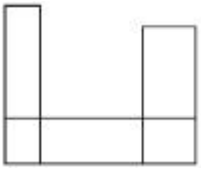
Question ID:41266
Topic Name: Aptitude Test – Part II

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

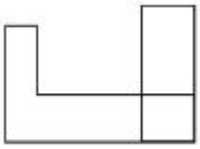


Question:

A

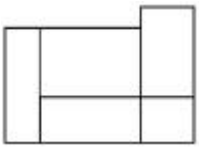


B



C

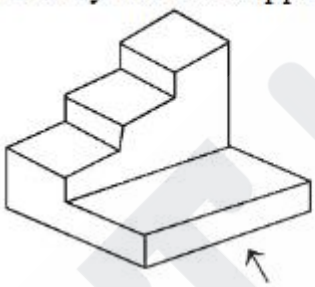
D



Question ID:41267

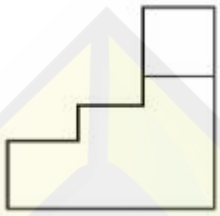
Topic Name: Aptitude Test – Part II

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



Question:

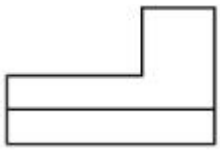
A



B

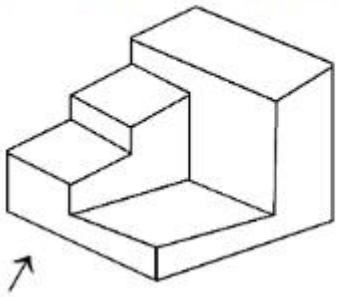
C

D



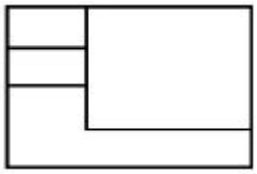
Question ID:41268
Topic Name: Aptitude Test – Part II

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

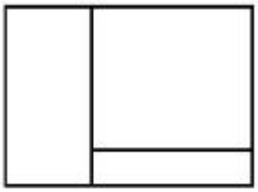


Question:

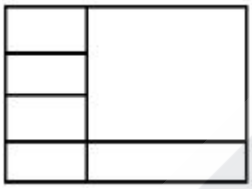
A



B



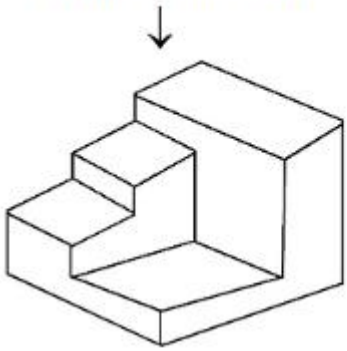
C



D

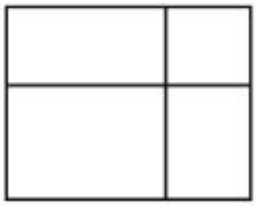
Question ID:41269
Topic Name: Aptitude Test – Part II

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

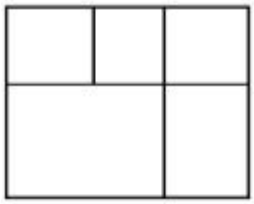


Question:

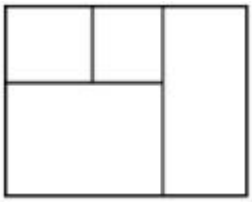
A



B



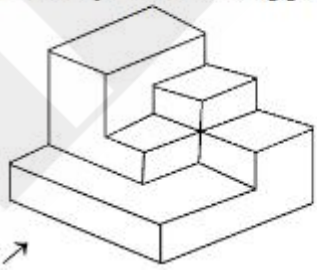
C



D

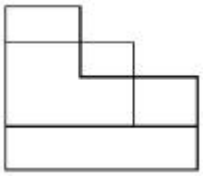
Question ID:41270
Topic Name: Aptitude Test – Part II

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

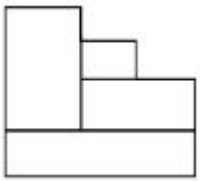


Question:

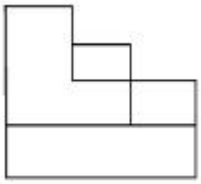
A



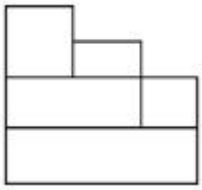
B



C



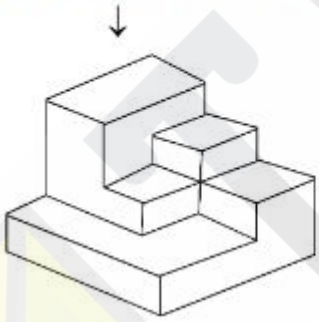
D



Question ID:41271

Topic Name: Aptitude Test – Part II

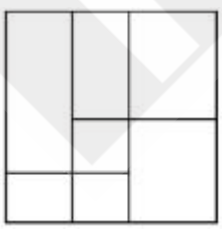
Question figure shows 3D view of an object. Identify the correct top view/plan of an object from given answer figures.



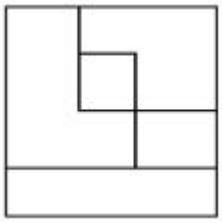
Question:

A

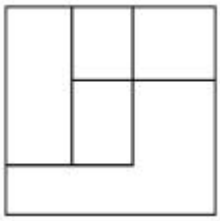
B



C



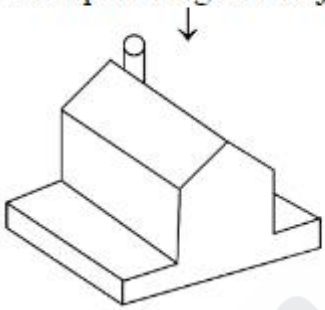
D



Question ID:41272

Topic Name: Aptitude Test – Part II

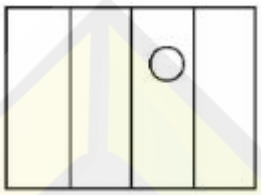
Question figure shows 3D view of an object. Identify the most appropriate top view/plan of given object from answer figures.



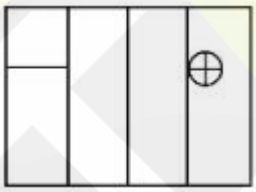
Question:

A

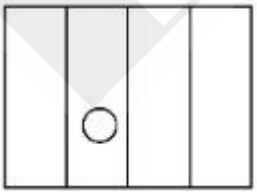
B



C

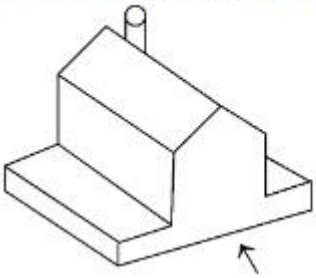


D



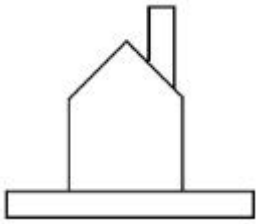
Question ID:41273
Topic Name: Aptitude Test – Part II

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

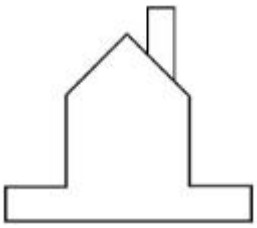


Question:

A



B

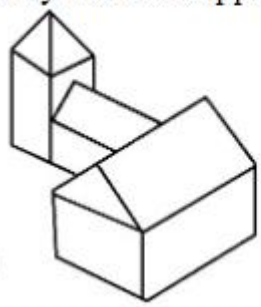


C

D

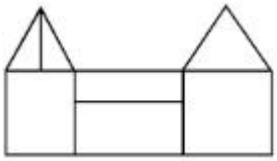
Question ID:41274
Topic Name: Aptitude Test – Part II

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

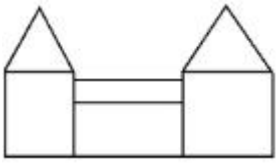


Question:

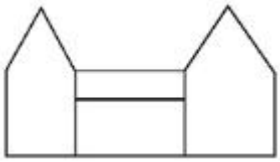
A



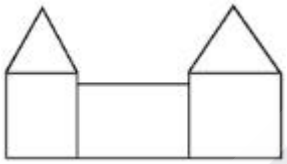
B



C



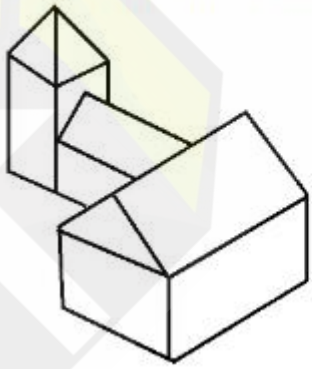
D



Question ID:41275

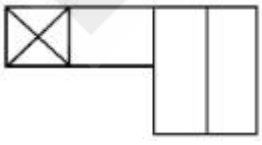
Topic Name: Aptitude Test – Part II

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

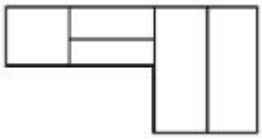


Question:

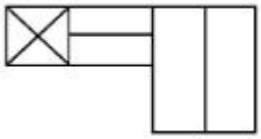
A



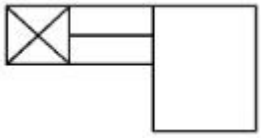
B



C



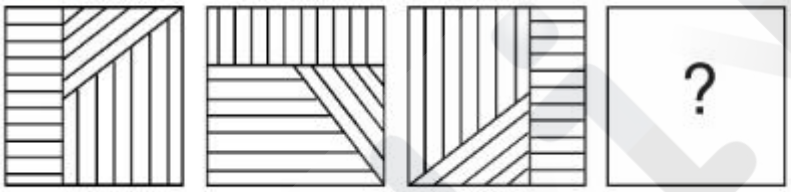
D



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:

A

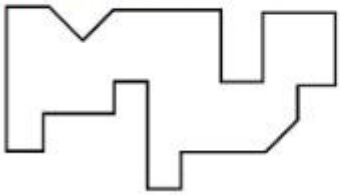
B

C

D

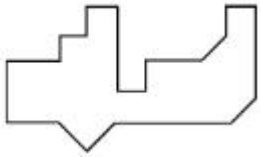
Question ID:41277
Topic Name: Aptitude Test – Part II

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

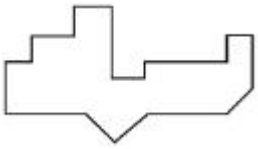


Question:

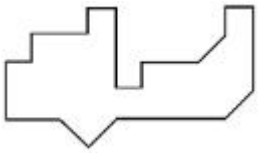
A



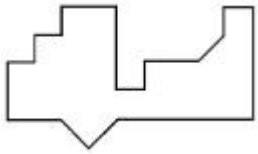
B



C

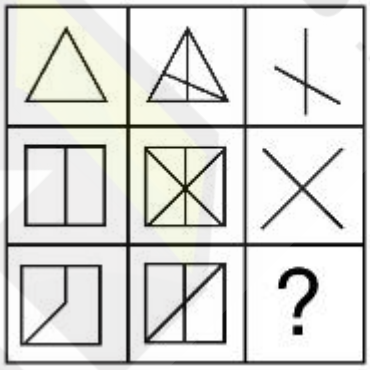


D



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

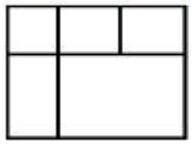
C

D

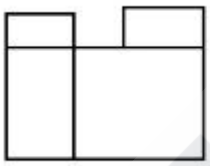
Question ID:41279

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

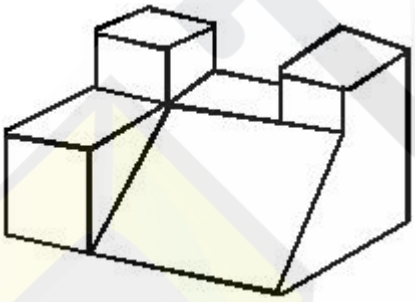


FRONT

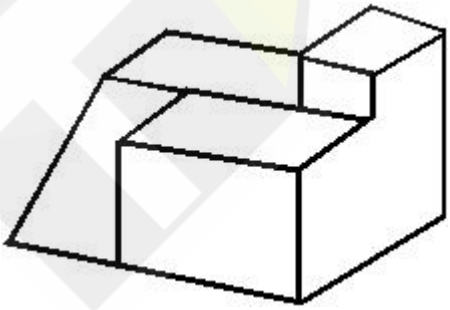
RIGHT SIDE

Question:

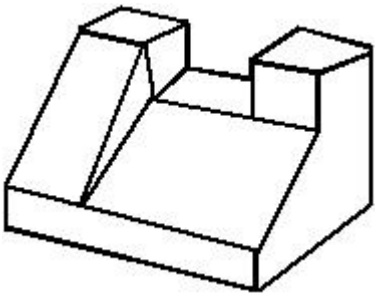
A



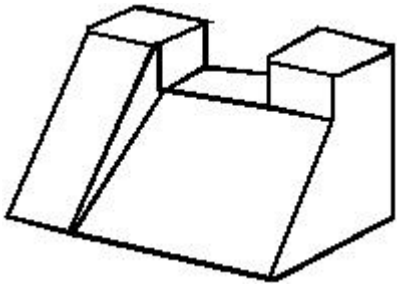
B



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.

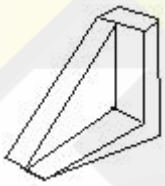
TOP

FRONT

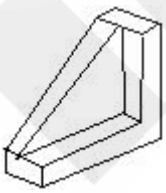
RIGHT SIDE

Question:

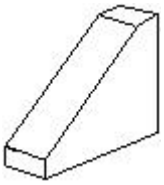
A



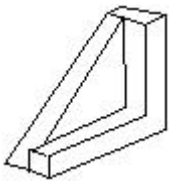
B



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.

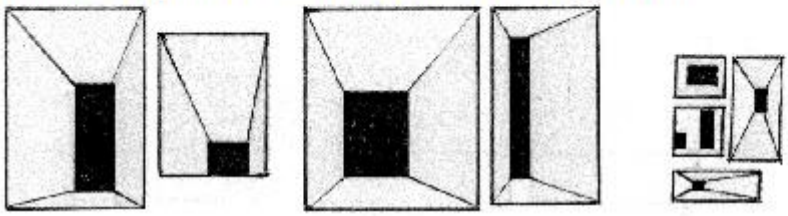
Question:

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: 

JEE PAPER 2 2022 SESSION 1 ANSWER KEY

subject	Question Type	QuestionID	Correct Option(s)/ Answers
Mathematics – Part I-Section A	Objective	121	B
Mathematics – Part I-Section A	Objective	122	C
Mathematics – Part I-Section A	Objective	123	D
Mathematics – Part I-Section A	Objective	124	D
Mathematics – Part I-Section A	Objective	125	A
Mathematics – Part I-Section A	Objective	126	C
Mathematics – Part I-Section A	Objective	127	C
Mathematics – Part I-Section A	Objective	128	D
Mathematics – Part I-Section A	Objective	129	B
Mathematics – Part I-Section A	Objective	1210	B
Mathematics – Part I-Section A	Objective	1211	A
Mathematics – Part I-Section A	Objective	1212	B
Mathematics – Part I-Section A	Objective	1213	C
Mathematics – Part I-Section A	Objective	1214	C
Mathematics – Part I-Section A	Objective	1215	A
Mathematics – Part I-Section A	Objective	1216	B
Mathematics – Part I-Section A	Objective	1217	A
Mathematics – Part I-Section A	Objective	1218	B
Mathematics – Part I-Section A	Objective	1219	D
Mathematics – Part I-Section A	Objective	1220	C
Mathematics – Part I-Section B	Numerical	1221	2
Mathematics – Part I-Section B	Numerical	1222	9
Mathematics – Part I-Section B	Numerical	1223	5
Mathematics – Part I-Section B	Numerical	1224	19704
Mathematics – Part I-Section B	Numerical	1225	227
Mathematics – Part I-Section B	Numerical	1226	5
Mathematics – Part I-Section B	Numerical	1227	70

JEE PAPER 2 2022 SESSION 1 ANSWER KEY

Mathematics – Part I-Section B	Numerical	1228	2
Mathematics – Part I-Section B	Numerical	1229	8
Mathematics – Part I-Section B	Numerical	1230	13
Aptitude Test – Part II	Objective	41231	B
Aptitude Test – Part II	Objective	41232	D
Aptitude Test – Part II	Objective	41233	C
Aptitude Test – Part II	Objective	41234	B
Aptitude Test – Part II	Objective	41235	C
Aptitude Test – Part II	Objective	41236	C
Aptitude Test – Part II	Objective	41237	B
Aptitude Test – Part II	Objective	41238	C
Aptitude Test – Part II	Objective	41239	B
Aptitude Test – Part II	Objective	41240	B
Aptitude Test – Part II	Objective	41241	C
Aptitude Test – Part II	Objective	41242	C
Aptitude Test – Part II	Objective	41243	A
Aptitude Test – Part II	Objective	41244	B
Aptitude Test – Part II	Objective	41245	B
Aptitude Test – Part II	Objective	41246	A
Aptitude Test – Part II	Objective	41247	D
Aptitude Test – Part II	Objective	41248	C
Aptitude Test – Part II	Objective	41249	B
Aptitude Test – Part II	Objective	41250	B
Aptitude Test – Part II	Objective	41251	C
Aptitude Test – Part II	Objective	41252	C
Aptitude Test – Part II	Objective	41253	A
Aptitude Test – Part II	Objective	41254	A

JEE PAPER 2 2022 SESSION 1 ANSWER KEY

Aptitude Test – Part II	Objective	41254	A
Aptitude Test – Part II	Objective	41255	B
Aptitude Test – Part II	Objective	41256	B
Aptitude Test – Part II	Objective	41257	C
Aptitude Test – Part II	Objective	41258	A
Aptitude Test – Part II	Objective	41259	C
Aptitude Test – Part II	Objective	41260	A
Aptitude Test – Part II	Objective	41261	B
Aptitude Test – Part II	Objective	41262	B
Aptitude Test – Part II	Objective	41263	D
Aptitude Test – Part II	Objective	41264	B
Aptitude Test – Part II	Objective	41265	A
Aptitude Test – Part II	Objective	41266	C
Aptitude Test – Part II	Objective	41267	C
Aptitude Test – Part II	Objective	41268	D
Aptitude Test – Part II	Objective	41269	C
Aptitude Test – Part II	Objective	41270	C
Aptitude Test – Part II	Objective	41271	D
Aptitude Test – Part II	Objective	41272	B
Aptitude Test – Part II	Objective	41273	B
Aptitude Test – Part II	Objective	41274	B
Aptitude Test – Part II	Objective	41275	C
Aptitude Test – Part II	Objective	41276	C
Aptitude Test – Part II	Objective	41277	C
Aptitude Test – Part II	Objective	41278	B
Aptitude Test – Part II	Objective	41279	A
Aptitude Test – Part II	Objective	41280	B