National Testing Agency

Question Paper Name :	JEE Main 2020 Paper 2A (B.Arch) Sep 1 Shift 2
Subject Name :	Paper 2A (B.Arch)
Duration :	180
Total Marks :	400

Paper 2A (B.Arch)

Mathematics

Section Number :	1
Number of Questions :	25
Number of Questions to be attempted :	25
Section Marks :	100

Question Number : 1 Question Id : 40503610402 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let $A = \{1, 2, 3\}$. Define a relation R on A as :

$aRb \Leftrightarrow |a^2 - b^2| \leq 5$.

Then which of the following is not true ?

Options :

40503637911. $R^{-1} = R$, where R^{-1} is the inverse of R.

40503637912. Range of R is A.

40503637913. R is reflexive and symmetric.

40503637914. R is symmetric and transitive.

Question Number : 2 Question Id : 40503610403 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The locus of the point

$z = x + iy$ $(x, y \in \mathbf{R}, i = \sqrt{-1})$ satisfying

$\arg\left(\frac{z-3}{z+3}\right) = \frac{\pi}{3}$, is :

Options :

40503637915. a circle with radius $= 2\sqrt{3}$

40503637916. a circle with centre at $(\sqrt{3}, 0)$

40503637917. a circle with centre at $(0, 2\sqrt{3})$ and radius 3

40503637918. an ellipse with length of its minor axis $= 3$

Question Number : 3 Question Id : 40503610404 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If both the roots of the equation, $x^2-2ax+a^2-1=0\,(a\in \mathbf{R})$ lie in the interval $(-2, 2)$, then the equation, $x^2-(a^2+1)x-(a^2+2)=0$ has

Options :

40503637919. both roots in $(-3, 0)$

40503637920. one root in $(0, 2)$ and another root in $(-2, 0)$

40503637921. one root in $[2, 3)$ and another root in $(-2, 0)$

40503637922. one root in $(-3, -2)$ and another root in $(0, 2]$

Question Number : 4 Question Id : 40503610405 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If the system of equations

$$2x+y+pz=-1$$
$$3x-2y+z=q$$
$$5x-8y+9z=5$$

has more than one solution, then $q-p$ is equal to :

Options :

40503637923. 2

40503637924. -2

40503637925. 4

40503637926. -4

Question Number : 5 Question Id : 40503610406 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

All the words (with or without meaning) formed using all the five letters of the word GOING are arranged as in dictionary. Then the word OGGIN occurs at the place which is :

Options :

40503637927. $(48)^{th}$

40503637928. $(49)^{th}$

40503637929. $(50)^{th}$

40503637930. $(51)^{th}$

Question Number : 6 Question Id : 40503610407 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The sum

$$-\frac{2}{3}+\frac{2}{9^2}+\frac{10}{9^3}+\frac{18}{9^4}+\frac{26}{9^5}+\ldots\ldots \text{upto}$$

infinity, is equal to :

Options :

40503637931. $-\frac{5}{8}$

40503637932. $\frac{17}{24}$

40503637933. $-\frac{11}{24}$

40503637934. $\frac{5}{8}$

Question Number : 7 Question Id : 40503610408 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let r and s be respectively the remainders when $(12)^{23}$ and $(23)^{12}$ are divided by 5, then r + s is equal to :

Options :

40503637935. 5

40503637936. 4

40503637937. 3

40503637938. 2

Question Number : 8 Question Id : 40503610409 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let f be a differentiable function satisfying $f(x+y)=f(x)+f(y)-xy$ for all $x, y \in \mathbf{R}$. If $\lim\limits_{h\to 0} \frac{f(h)}{h} = 3$, then $\sum\limits_{n=1}^{10} f(n)$ is equal to :

Options :

40503637939. $-\frac{55}{2}$

40503637940. $\frac{275}{2}$

40503637941. $-\frac{55}{4}$

40503637942. $\frac{225}{4}$

Question Number : 9 Question Id : 40503610410 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

For non-zero real numbers a, b, if $y(x) = \frac{a + b x^{3/2}}{x^{5/4}}$, $x > 0$ and $y''(5) = 0$, then the ratio a : b is :

Options :

40503637943. $\sqrt{5} : 3$

40503637944. $3 : \sqrt{5}$

40503637945. $\sqrt{5} : \sqrt{3}$

40503637946. $3 : 1$

Question Number : 10 Question Id : 40503610411 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The function $f(x)=\sin 2x+2\cos x$, $x\in\left(-\frac{3\pi}{4},\frac{3\pi}{4}\right)$ has :

Options :

40503637947. no critical point.

40503637948. a point of local maxima and a point of local minima.

40503637949. a point of local maxima and a point of inflection.

40503637950. a point of local minima and a point of inflection.

Question Number : 11 Question Id : 40503610412 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The integral $\int\frac{\cos^5\theta}{\sin\theta(4-3\sin^2 2\theta)}\,d\theta$ is equal to :

(where C is a constant of integration)

Options :

40503637951. $\frac{1}{5}\log_e\left|\frac{\cos^5\theta}{\sin^5\theta+\cos^5\theta}\right|+C$

40503637952. $\frac{1}{24}\log_e\left(\frac{\sin^6\theta}{\sin^6\theta+\cos^6\theta}\right)+C$

40503637953. $\frac{1}{20}\log_e\left|\frac{\sin^5\theta}{\sin^5\theta+\cos^5\theta}\right|+C$

40503637954. $\frac{1}{6}\log_e\left(\frac{\cos^6\theta}{\sin^6\theta+\cos^6\theta}\right)+C$

Question Number : 12 Question Id : 40503610413 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The area (in sq. units) of the region bounded by the parabola $x=2y^2$ and the line $x+y=1$ is :

Options :

40503637955. $\frac{11}{12}$

40503637956. $\frac{13}{24}$

40503637957. $\frac{9}{8}$

40503637958. $\frac{5}{4}$

Question Number : 13 Question Id : 40503610414 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let $y = y(x)$ be the solution of the differential equation $x \log_e x \frac{dy}{dx} + 2y = 2x\ (x > 1)$. If $\lim_{x \to 1+} y(x) = 1$, then $y(e^2)$ is equal to :

Options :

40503637959. $\frac{e^2 - 1}{2}$

40503637960. $\frac{e^2 + 1}{2}$

40503637961. $e^2 - 1$

40503637962. $e^2 + 1$

Question Number : 14 Question Id : 40503610415 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If (x_i, y_i), $i = 1, 2, 3$ are the vertices of an equilateral triangle such that $(x_1 + 3)^2 + (y_1 - 4)^2 = (x_2 + 3)^2 + (y_2 - 4)^2 = (x_3 + 3)^2 + (y_3 - 4)^2$, then the value of $\frac{y_1 + y_2 + y_3}{x_1 + x_2 + x_3}$ is :

Options :

40503637963. $\frac{4}{3}$

40503637964. $-\frac{4}{3}$

40503637965. $\frac{3}{4}$

40503637966. $-\frac{3}{4}$

Question Number : 15 Question Id : 40503610416 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If tangent at $\left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$ to the circle $x^2+y^2=1$ is also a tangent to the circle $(x-a)^2+(y-b)^2=1$, then the ordered pair (a, b) can be :

Options :

40503637967. $\left(-2, \sqrt{2}\right)$

40503637968. $\left(-\sqrt{2}, 2\sqrt{2}\right)$

40503637969. $\left(2, -2\sqrt{2}\right)$

40503637970. $\left(-\sqrt{2}, \sqrt{2}\right)$

Question Number : 16 Question Id : 40503610417 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The foci of a hyperbola coincide with the foci of the ellipse, $\frac{x^2}{16}+\frac{y^2}{9}=1$. If the eccentricity of the hyperbola is 4, then its equation is :

Options :

40503637971. $\frac{x^2}{7}-\frac{4y^2}{105}=\frac{1}{4}$

40503637972. $\frac{x^2}{7}-\frac{y^2}{105}=\frac{1}{16}$

40503637973. $\frac{x^2}{20} - \frac{y^2}{75} = \frac{1}{16}$

40503637974. $\frac{x^2}{5} - \frac{y^2}{75} = \frac{1}{16}$

Question Number : 17 Question Id : 40503610418 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

If the plane P : $2x - y + 3z + 5 = 0$ is rotated through 90° about its line of intersection with the plane $5x - 4y - 2z + 1 = 0$, then the equation of the plane P in the new position is :

Options :

40503637975. $27x - 24y - 26z + 13 = 0$

40503637976. $27x - 24y - 26z - 13 = 0$

40503637977. $31x + 2y - 20z - 13 = 0$

40503637978. $31x - 25y + 29z + 13 = 0$

Question Number : 18 Question Id : 40503610419 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The top of two poles, standing 4 m apart on a horizontal plane, are connected by a cable. If the angles of depression from the top of one pole to the bottom of another pole are 30° and 45°, then the minimum length (in m) of the cable is :

Options :

40503637979. $\sqrt{\frac{32\sqrt{3} - 16}{3}}$

40503637980. $\sqrt{\frac{128 - 32\sqrt{3}}{3}}$

40503637981. $\sqrt{\frac{122 - 32\sqrt{3}}{3}}$

40503637982. $\sqrt{\frac{112 - 32\sqrt{3}}{3}}$

Question Number : 19 Question Id : 40503610420 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let A, B and C be three events such that the probability of occurrence of exactly one of A and B is $\frac{1}{2}$, the probability of occurrence of exactly one of B and C is $\frac{3}{4}$ and the probability of occurrence of exactly one of C and A is $\frac{1}{4}$. If the probability of occurrence of all the three events simultaneously is $\frac{1}{16}$, then the probability that at least one of the three events will occur is :

Options :

40503637983. $\frac{7}{16}$

40503637984. $\frac{13}{16}$

40503637985. $\frac{7}{8}$

40503637986. $\frac{15}{16}$

Question Number : 20 Question Id : 40503610421 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Let

p : I have passed JEE (Main),

q : My JEE (Main) rank is 100, and

r : I will appear in JEE (Advanced)

be three statements with truth values T, F and T respectively. Then which one of the following has the truth value, F ?

Options :

40503637987. $(\sim p \vee \sim q) \wedge r$

40503637988. $(p \wedge \sim q) \vee (\sim r)$

40503637989. $(\sim p \vee q) \wedge (\sim r)$

40503637990. $(\sim p \wedge q) \vee r$

Question Number : 21 Question Id : 40503610422 Question Type : SA Correct Marks : 4 Wrong Marks : 0

Let $B = \begin{bmatrix} 22 & -26 \\ -6 & 10 \end{bmatrix}$ be the matrix obtained by applying the elementary row operations $R_2 \to R_2 - R_1$, $R_1 \to 2R_1$ and $R_1 \to R_1 - 2R_2$ (in this order only) on a matrix A. Then the sum of all entries of A is _____.

Question Number : 22 Question Id : 40503610423 Question Type : SA Correct Marks : 4 Wrong Marks : 0

For $b \in \mathbf{N}$, if the limit of the function

$$f(x) = \begin{cases} [5x - 4], & x < 4 \\ \dfrac{[x + b]}{2}, & x > 4 \end{cases}$$

when $x \to 4$, exists and [t] denotes the greatest integer $\leq t$, then b is equal to _____.

Question Number : 23 Question Id : 40503610424 Question Type : SA Correct Marks : 4 Wrong Marks : 0

If $S = \{x \in [0, 4\pi] : \sin 2x - \cos x = 0\}$ and the sum of the elements of S is $k\pi$, then k is equal to _____.

Question Number : 24 Question Id : 40503610425 Question Type : SA Correct Marks : 4 Wrong Marks : 0

If the mean of the numbers $-7, -5, -2, x, 5$ is -1, then the variance of the numbers $x-3, 4x, x+3$ is _____.

Question Number : 25 Question Id : 40503610426 Question Type : SA Correct Marks : 4 Wrong Marks : 0

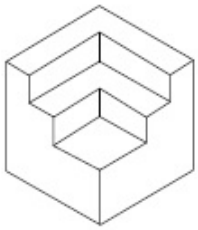
If the equation of a plane P passing through the point $\hat{i}+\hat{j}+\hat{k}$ is $\vec{r}\cdot\left(2\hat{i}-\hat{j}+a\hat{k}\right)=3$, then the length of the perpendicular from the point $4\hat{i}-\hat{j}+3\hat{k}$ on the plane P is _____.

Aptitude Test

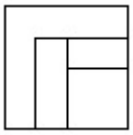
Section Number :	2
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200

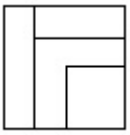
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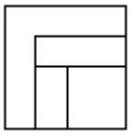
The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

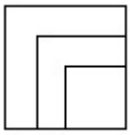


Options :

40503637996. 

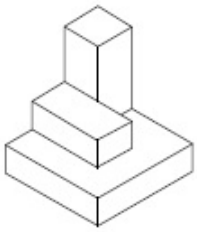
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40503637998. 

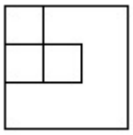
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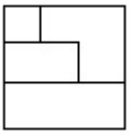
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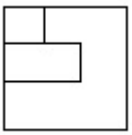
The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

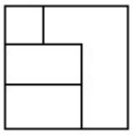


Options :

40503638000. 

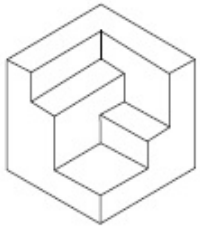
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40503638002. 

40503638003. 

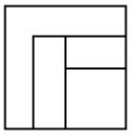
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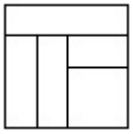
The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

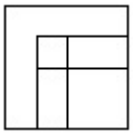


Options :

40503638004. 

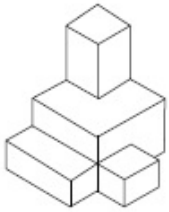
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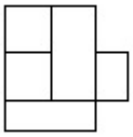
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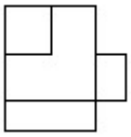
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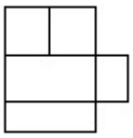
The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

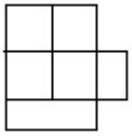


Options :

40503638008. 

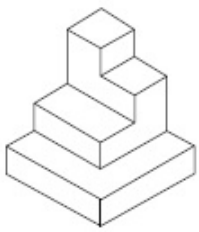
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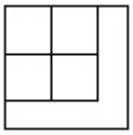
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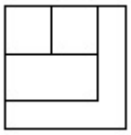
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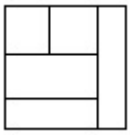
The 3 - D figure shows the view of an object. Identify the correct top view from amongst the answer figures.

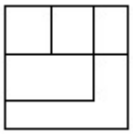


Options :

40503638012. 

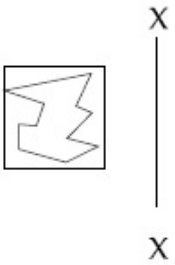
40503638013. 

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Question Number : 31 Question Id : 40503610432 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the answer figures is the correct mirror image of the problem figure with respect to X – X ?



Options :

40503638016. 

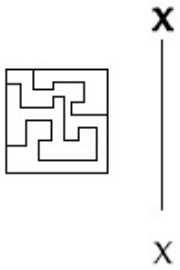
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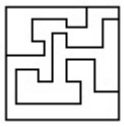
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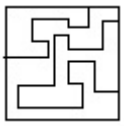
Question Number : 32 Question Id : 40503610433 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

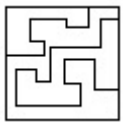
Which one of the answer figures is the correct mirror image of the problem figure with respect to X – X ?

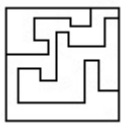


Options :

40503638020. 

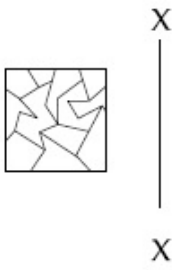
40503638021. 

40503638022. 

40503638023. 

Question Number : 33 Question Id : 40503610434 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the answer figures is the correct mirror image of the problem figure with respect to X – X ?



Options :

40503638024. 

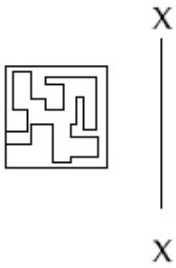
40503638025. 

40503638026. 

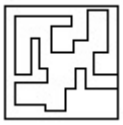
40503638027. 

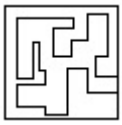
Question Number : 34 Question Id : 40503610435 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

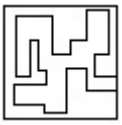
Which one of the answer figures is the correct mirror image of the problem figure with respect to X – X ?

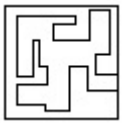


Options :

40503638028. 

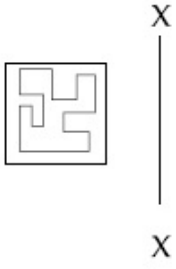
40503638029. 

40503638030. 

40503638031. 

Question Number : 35 Question Id : 40503610436 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

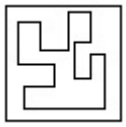
Which one of the answer figures is the correct mirror image of the problem figure with respect to X – X ?

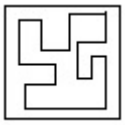


Options :

40503638032. 

40503638033. 

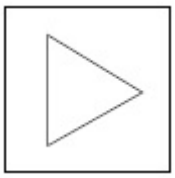
40503638034. 

40503638035. 

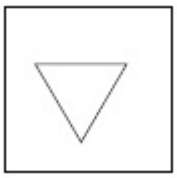
Question Number : 36 Question Id : 40503610437 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

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

Options :

40503638036. 

40503638037. 

40503638038. 

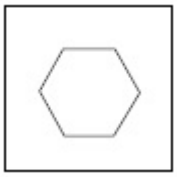
40503638039. 

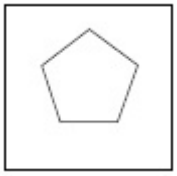
Question Number : 37 Question Id : 40503610438 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

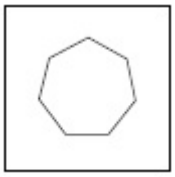
Find the odd figure out of the problem figures given below.

Options :

40503638040. 

40503638041. 

40503638042. 

40503638043. 

Question Number : 38 Question Id : 40503610439 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

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

Options :

40503638044. 

40503638045. 

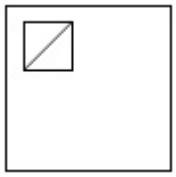
40503638046. 

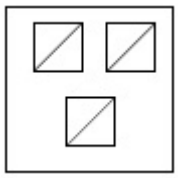
40503638047. 

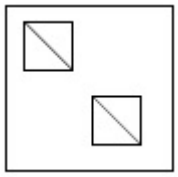
Question Number : 39 Question Id : 40503610440 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

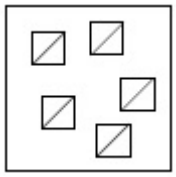
Find the odd figure out of the problem figures given below.

Options :

40503638048. 

40503638049. 

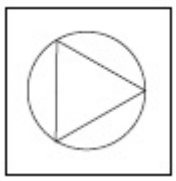
40503638050. 

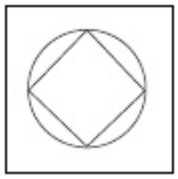
40503638051. 

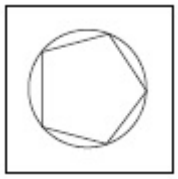
Question Number : 40 Question Id : 40503610441 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

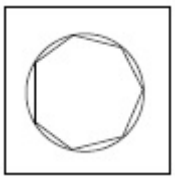
Find the odd figure out of the problem figures given below.

Options :

40503638052. 

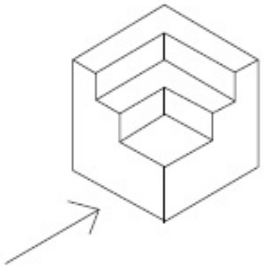
40503638053. 

40503638054. 

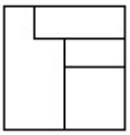
40503638055. 

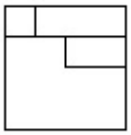
Question Number : 41 Question Id : 40503610442 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

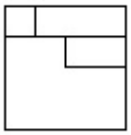
The 3 – D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

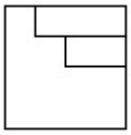


Options :

40503638056. 

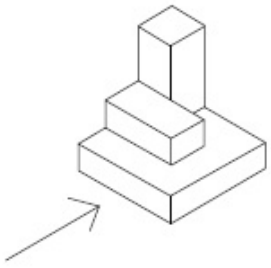
40503638057. 

40503638058. 

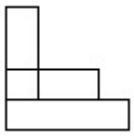
40503638059. 

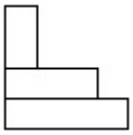
Question Number : 42 Question Id : 40503610443 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

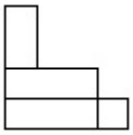
The 3 – D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

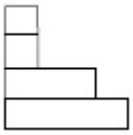


Options :

40503638060. 

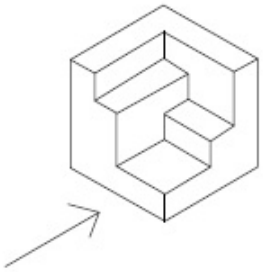
40503638061. 

40503638062. 

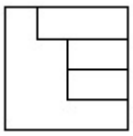
40503638063. 

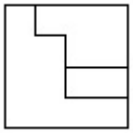
Question Number : 43 Question Id : 40503610444 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

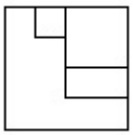
The 3 – D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

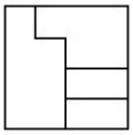


Options :

40503638064. 

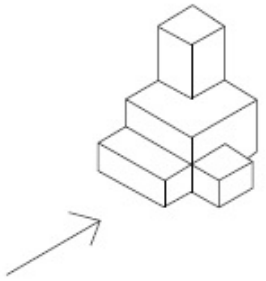
40503638065. 

40503638066. 

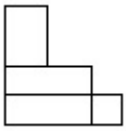
40503638067. 

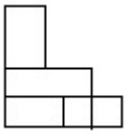
Question Number : 44 Question Id : 40503610445 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

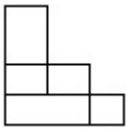
The 3 – D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

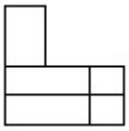


Options :

40503638068. 

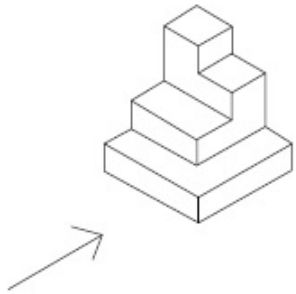
40503638069. 

40503638070. 

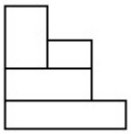
40503638071. 

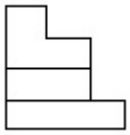
Question Number : 45 Question Id : 40503610446 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

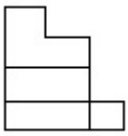
The 3 – D figure shows the view of an object. Identify the correct front view in the direction of the arrow, from amongst the answer figures.

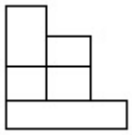


Options :

40503638072. 

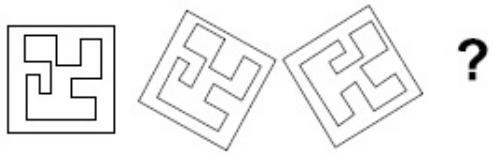
40503638073. 

40503638074. 

40503638075. 

Question Number : 46 Question Id : 40503610447 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

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



Options :

40503638076. 

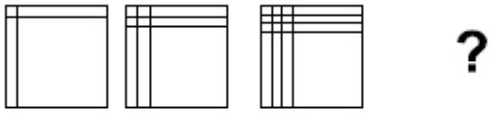
40503638077. 

40503638078. 

40503638079. 

Question Number : 47 Question Id : 40503610448 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

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



Options :

40503638080. 

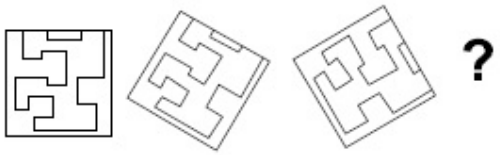
40503638081. 

40503638082. 

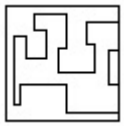
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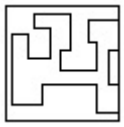
Question Number : 48 Question Id : 40503610449 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

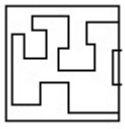
Which one of the answer figure will complete the sequence of the three problem figures ?

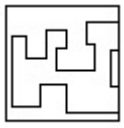


Options :

40503638084. 

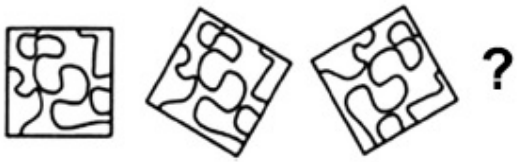
40503638085. 

40503638086. 

40503638087. 

Question Number : 49 Question Id : 40503610450 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

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



Options :

40503638088. 

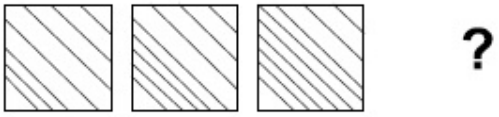
40503638089. 

40503638090. 

40503638091. 

Question Number : 50 Question Id : 40503610451 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

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



Options :

40503638092. 

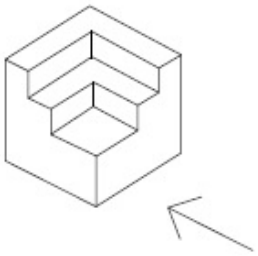
40503638093. 

40503638094. 

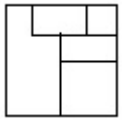
40503638095. 

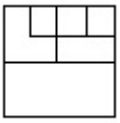
Question Number : 51 Question Id : 40503610452 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

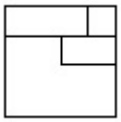
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

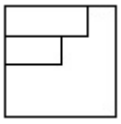


Options :

40503638096. 

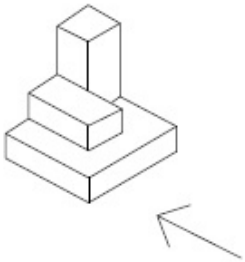
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40503638098. 

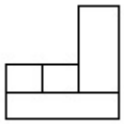
40503638099. 

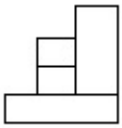
Question Number : 52 Question Id : 40503610453 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

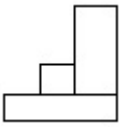
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

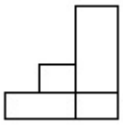


Options :

40503638100. 

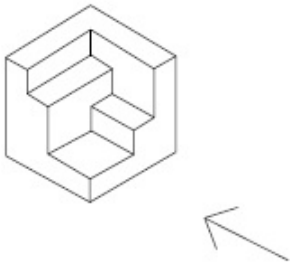
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40503638102. 

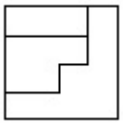
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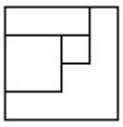
Question Number : 53 Question Id : 40503610454 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

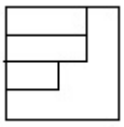
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

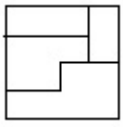


Options :

40503638104. 

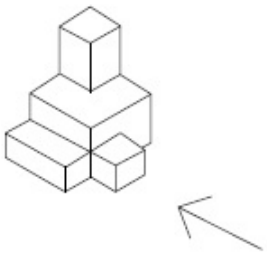
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40503638106. 

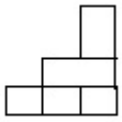
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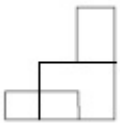
Question Number : 54 Question Id : 40503610455 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

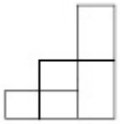
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.



Options :

40503638108. 

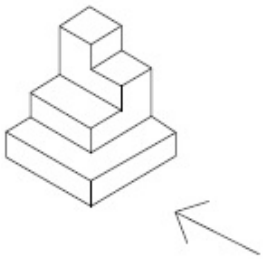
40503638109. 

40503638110. 

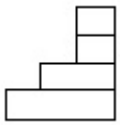
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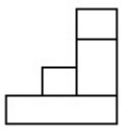
Question Number : 55 Question Id : 40503610456 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

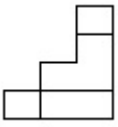
The 3 – D figure shows the view of an object. Identify the correct view in the direction of the arrow, from amongst the answer figures.

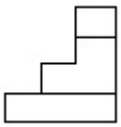


Options :

40503638112. 

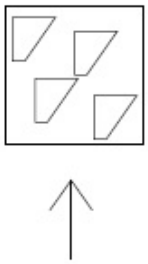
40503638113. 

40503638114. 

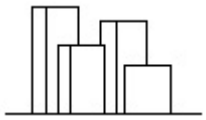
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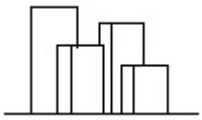
Question Number : 56 Question Id : 40503610457 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

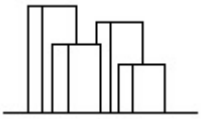
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

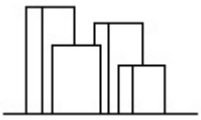


Options :

40503638116. 

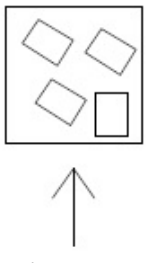
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40503638118. 

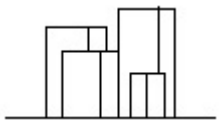
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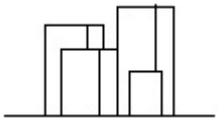
Question Number : 57 Question Id : 40503610458 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

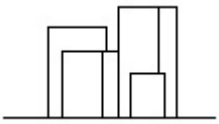
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

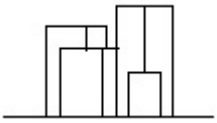


Options :

40503638120. 

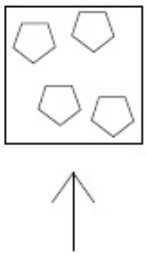
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40503638122. 

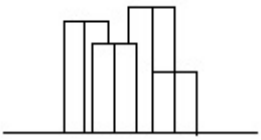
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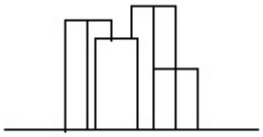
Question Number : 58 Question Id : 40503610459 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

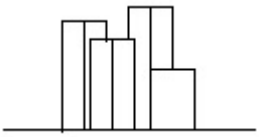
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

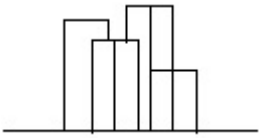


Options :

40503638124. 

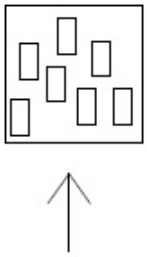
40503638125. 

40503638126. 

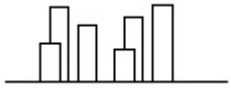
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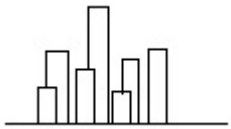
Question Number : 59 Question Id : 40503610460 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

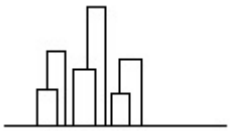
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

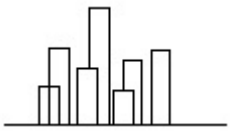


Options :

40503638128. 

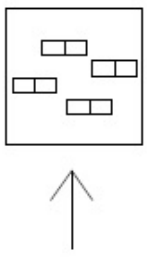
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40503638130. 

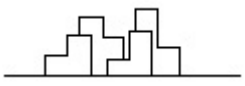
40503638131. 

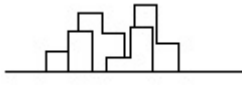
Question Number : 60 Question Id : 40503610461 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

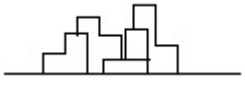
The problem figure shows the top view of objects. Looking in the direction of the arrow, identify the correct elevation, from amongst the answer figures.

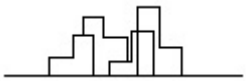


Options :

40503638132. 

40503638133. 

40503638134. 

40503638135. 

Question Number : 61 Question Id : 40503610462 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The White House is which one of the following ?

Options :

40503638136. Residence of Prime Minister of Germany

40503638137. Residence of Prime Minister of France

40503638138. Residence of Prime Minister of Spain

40503638139. Residence of President of USA

Question Number : 62 Question Id : 40503610463 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

In the Northern Hemisphere the summer sun rises from which one of the following directions ?

Options :

40503638140. North East

40503638141. North West

40503638142. South East

40503638143. South West

Question Number : 63 Question Id : 40503610464 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

In which of the following States is the Golden Temple located ?

Options :

40503638144. Haryana

40503638145. Punjab

40503638146. Assam

40503638147. Nagaland

Question Number : 64 Question Id : 40503610465 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

What is the thickness of a one and a half brick thick wall ?

Options :

40503638148. 9″

40503638149. 12″

40503638150. 18″

40503638151. 13.5″

Question Number : 65 Question Id : 40503610466 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one amongst the following supports the masonry above doors and windows ?

Options :

40503638152. Foundation

40503638153. Lintel

40503638154. Slab

40503638155. Wooden frame

Question Number : 66 Question Id : 40503610467 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

The Leaning Tower in Italy is located in which one of the following cities ?

Options :

40503638156. Florence

40503638157. Venice

40503638158. Pisa

40503638159. Rome

Question Number : 67 Question Id : 40503610468 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the garden of the following is a terraced garden in Srinagar ?

Options :

40503638160. Nishat

40503638161. Vrindaban

40503638162. Buddha

40503638163. Nehru

Question Number : 68 Question Id : 40503610469 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

What amongst the following is the name of the famous museum in Hyderabad ?

Options :

40503638164. Falaknuma

40503638165. Salarjung

40503638166. Gandhi

40503638167. Nizam

Question Number : 69 Question Id : 40503610470 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the color is made when blue and yellow are mixed ?

Options :

40503638168. Violet

40503638169. Orange

40503638170. Green

40503638171. White

Question Number : 70 Question Id : 40503610471 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the following color suggests love and romance ?

Options :

40503638172. Blue

40503638173. Green

40503638174. Pink

40503638175. Brown

Question Number : 71 Question Id : 40503610472 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the following suggests the texture of the skin of the elderly persons ?

Options :

40503638176. Glossy

40503638177. Wrinkled

40503638178. Smooth

40503638179. Soft

Question Number : 72 Question Id : 40503610473 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the following is fixed to drain water from a sloping roof ?

Options :

40503638180. Ridge

40503638181. Eave

40503638182. J. Bolt

40503638183. Gutter

Question Number : 73 Question Id : 40503610474 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one of the following is ideal flooring for a cinema hall ?

Options :

40503638184. Granite

40503638185. Brick

40503638186. Marble

40503638187. Carpet

Question Number : 74 Question Id : 40503610475 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Who among the following is the architect of the Punjab Haryana High Court Building ?

Options :

40503638188. Maxwell Fry

40503638189. Le Corbusier

40503638190. Louis Kahn

40503638191. Geoffrey Bawa

Question Number : 75 Question Id : 40503610476 Question Type : MCQ Correct Marks : 4 Wrong Marks : 1

Which one among the following is used for water conservation ?

Options :

40503638192. Water drainage

40503638193. Water evaporation

40503638194. Water harvesting

40503638195. Water flowing

Drawing

Section Number :	3
Number of Questions :	2
Number of Questions to be attempted :	2
Section Marks :	100

Question Number : 76 Question Id : 40503610477 Question Type : SUBJECTIVE Correct Marks : 50 Wrong Marks : 0

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

Question Number : 77 Question Id : 40503610478 Question Type : SUBJECTIVE Correct Marks : 50 Wrong Marks : 0

Draw from imagination a gardener working in the garden.

OR

Draw from imagination a scene of a place for praying.

OR

Draw from memory your best friends face.