JEE Main 2021 Paper 2A (B.Arch) Feb 23 Single sitting Question Paper

Conducted by the National Testing Agency (NTA)

Time Allowed: 3 Hours **B.Arch** **Maximum Marks: 400**

General Instructions

(i) This is **Paper 2A (B.Arch)** of **JEE (Main) 2021**, conducted by the National Testing Agency on **23 Feb 2021**.

(ii) The paper contains **82 questions**; attempt **77** as specified in the section table. The maximum score is **400 marks**.

(iii) Multiple choice questions have four options. Select one answer. Each correct answer carries **4 marks**; an incorrect answer carries **−1 mark**.

(iv) Numerical value questions carry **4 marks** for a correct answer and **0 marks** for an incorrect answer. Unanswered questions carry **0 marks**.

(v) The Drawing section contains **two questions of 50 marks each**. Follow the alternatives and instructions printed within each question.

(vi) In Mathematics Section B, attempt **any five of the ten** numerical value questions.

Section	Questions	To attempt	Marks
Mathematics Section A	20	20	80
Mathematics Section B	10	5	20
Aptitude Test	50	50	200
Drawing	2	2	100

Mathematics Section A

1. 4 marks

The value of the integral $\int_{-4}^{4} |9-x^2| dx$ is :

(1) $\frac{121}{3}$

(2) $\frac{122}{3}$

(3) $\frac{125}{3}$

(4) $\frac{128}{3}$

---

2. 4 marks

The sum of infinite number of terms of a Geometric Progression is 3 and the sum of the squares of its terms is $\frac{9}{2}$. The sum of the cubes of its terms is :

(1) $\frac{31}{13}$

(2) $\frac{108}{13}$

(3) $\frac{27}{2}$

(4) $\frac{54}{7}$

---

3. 4 marks

Which of the following Boolean expression is a tautology ?

(1) $p \Leftrightarrow p \vee q$

(2) $(p \wedge q) \Leftrightarrow p$

(3) $(p \wedge (\sim p \vee q)) \vee (\sim q)$

(4) $(p \vee \sim p) \wedge (q \vee (\sim q))$

---

4. 4 marks

Let $|a|<1$, $|b|<1$, $|c|<1$ and $x=\sum_{n=0}^{\infty} a^n$, $y=\sum_{n=0}^{\infty} b^n$, $z=\sum_{n=0}^{\infty} c^n$. If $\frac{1}{x}, \frac{1}{y}, \frac{1}{z}$ are in Arithmetic Progression, then :

(1) a, b and c are in Arithmetic Progression

(2) a, b and c are in Geometric Progression

(3) a, 2b and c are in Arithmetic Progression

(4) a, b and c satisfy $2b^2=ac$

---

collegedunia

5. 4 marks

$\sum_{n=1}^{\infty} \frac{2n^2+7n+5}{n!}$ is equal to :

(1) $15e+5$

(2) $15e-5$

(3) $16e-5$

(4) $16e-7$

---

6. 4 marks

The least positive integral value of λ such that $10^{50}+(3\times(4)^{52})+\lambda$ is divisible by 9 is :

(1) 5

(2) 3

(3) 7

(4) 1

---

7. 4 marks

There are 4, 5 and 6 points on the three parallel and co-planar lines. If no set of four or more points is cyclic and no set of three points lying on distinct lines is collinear, then the number of circles passing through exactly three points is :

(1) 455

(2) 421

(3) 435

(4) 441

---

8. 4 marks

If $y=\frac{ax-b}{(x-1)(x-4)}$ has an extremum at the point (2, -1), then the values of a and b are :

(1) $a=1,\ b=0$

(2) $a=0,\ b=1$

(3) $a=0,\ b=-1$

(4) $a=-1,\ b=1$

---

9. 4 marks

The distance between the planes $\vec{r}\cdot\left(2\hat{i}+\hat{j}-2\hat{k}\right)+5=0$ and $\vec{r}\cdot\left(6\hat{i}+3\hat{j}-6\hat{k}\right)+2=0$ is :

(1) $\frac{9}{13}$

(2) $\frac{15}{4}$

(3) $\frac{13}{9}$

(4) $\frac{1}{13}$

---

collegedunia

10. 4 marks

The probability of solving a problem in Mathematics by two students X and Y are $\frac{1}{4}$ and $\frac{1}{5}$ respectively. If both of them try to solve the problem independently, then the probability that the problem will be solved by exactly one of them is equal to :

(1) $\frac{7}{20}$

(2) $\frac{1}{20}$

(3) $\frac{19}{20}$

(4) $\frac{12}{20}$

---

11. 4 marks

The polar form of the complex number $\frac{1+i}{1-i}$ is equal to :

(1) $\cos\frac{\pi}{2}+i\sin\frac{\pi}{2}$

(2) $\cos\frac{\pi}{2}-i\sin\frac{\pi}{2}$

(3) $\cos\frac{\pi}{4}+i\sin\frac{\pi}{4}$

(4) $\cos\frac{\pi}{4}-i\sin\frac{\pi}{4}$

---

12. 4 marks

If the equation of a line which divides the line segment joining the points (1, 0) and (3, 0) in the ratio 2 : 1 and is also perpendicular to it, is $ax=7$, then the value of a is equal to :

(1) 2

(2) 3

(3) 4

(4) 1

---

13. 4 marks

Equation of the circle, which is the mirror image of the circle $x^2+y^2-2x=0$ with respect to the line $x+y=2$, is :

(1) $x^2+y^2-2x+4y+3=0$

(2) $x^2+y^2-4x-2y+4=0$

(3) $2(x^2+y^2)-x+y+1=0$

(4) $x^2+y^2-2x-4y+3=0$

---

14. 4 marks

Equations of the common tangent of the ellipse $\frac{(x+1)^2}{2^2}+\frac{(y-1)^2}{3^2}=1$ and the circle $(x+1)^2+(y-1)^2=4$ are :

(1) $y+3=0$ and $x-1=0$

(2) $x-3=0$ and $y+1=0$

(3) $x+3=0$ and $x-1=0$

(4) $y+3=0$ and $y-1=0$

---

15. 4 marks

If $A=\begin{bmatrix}1 & a\\ 0 & 1\end{bmatrix}$, then A^k $(k\in N)$ is :

(1) $\begin{bmatrix}1 & ka\\ 0 & 1\end{bmatrix}$

(2) $\begin{bmatrix}1 & k^2a\\ 0 & 1\end{bmatrix}$

(3) $\begin{bmatrix}k & ka\\ 0 & k\end{bmatrix}$

(4) $\begin{bmatrix}1 & ka\\ 0 & 0\end{bmatrix}$

---

16. 4 marks

The values of s and t, for which the system of equations

$$x_1+x_2+x_3=5$$
$$x_1+2x_2+3x_3=9$$
$$x_1+3x_2+sx_3=t$$

has no solution, are :

(1) $s=5,\ t=13$

(2) $s\neq 5$

(3) $s=5,\ t\neq 13$

(4) $t\neq 13$

---

17. 4 marks

Derivative of $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ with respect to $\sin^{-1}\left(\frac{2x}{1+x^2}\right)$ in $(1,\infty)$, is :

(1) 1

(2) -1

(3) 0

(4) 2

---

18. 4 marks

Let $\vec{a}$, $\vec{b}$ and $\vec{c}$ be three vectors such that $|\vec{a}|=|\vec{b}|=\frac{|\vec{c}|}{2}=1$. If $\vec{a}\times(\vec{a}\times\vec{c})+\vec{b}=\vec{0}$, then the acute angle between $\vec{a}$ and $\vec{c}$ is :

(1) $\frac{\pi}{6}$

(2) $\frac{\pi}{4}$

(3) $\frac{\pi}{3}$

(4) $\frac{5\pi}{12}$

---

19. 4 marks

Solution of the differential equation $(1+y^2)dx=(\tan^{-1}y-x)dy$ is :
(where c is an arbitrary constant)

(1) $x=1-\tan^{-1}y+ce^{-\tan^{-1}y}$

(2) $y=\tan^{-1}y-1+ce^{-\tan^{-1}x}$

(3) $x=\tan^{-1}y-1+ce^{-\tan^{-1}y}$

(4) $x=-\tan^{-1}y-1-ce^{\tan^{-1}x}$

---

20. 4 marks

The values of x, for which the vectors $\vec{a}=(x^2-16)\hat{i}+4\hat{j}-(x^2-25)\hat{k}$ make acute angles with the (positive directions of) coordinate axes lie in :

(1) $[-5,\ -4]\cup[4,\ 5]$

(2) $[-5,\ 4)\cup(-4,\ 5]$

(3) $(-5,\ -4)\cup(4,\ 5)$

(4) $(-5,\ 4)\cup(-4,\ 5)$

Mathematics Section B

21. Numerical value · 4 marks

$\int_0^{\pi} \sqrt{\frac{1+\cos 2x}{2}}\, dx$ is _____.

22. Numerical value · 4 marks

The minimum value of $9\tan^2\theta + 4\cot^2\theta$ is _____.

23. Numerical value · 4 marks

The length of the perpendicular from the point (1, 2, 3) to the line $\frac{-x+6}{-3} = \frac{y-7}{2} = \frac{z-7}{-2}$ is _____.

24. Numerical value · 4 marks

If $\log_3 2$, $\log_3(2^x - 5)$ and $\log_3\left(2^x - \frac{7}{2}\right)$ are in Arithmetic Progression, then the value of x is _____.

25. Numerical value · 4 marks

If $x^2 + x + 1 = 0$, then $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$ is _____.

26. Numerical value · 4 marks

$x^2 + y^2 - 4x - 2y - 11 = 0$ is a circle to which tangents are drawn from the point (4, 5) which form a quadrilateral with a pair of radii. The area of this quadrilateral in square units is _____.

27. Numerical value · 4 marks

If the sum of mean and variance of a binomial distribution is 15 and the sum of their squares is 117, then the number of independent trials is equal to _____.

28. Numerical value · 4 marks

Let the equation of the plane passing through the points (1, 2, 6), (2, 5, 7) and perpendicular to the plane $4x-y+z=15$ be $ax+by+cz+d=0$. If a, b, c, $d \in \mathbf{Z}$ with gcd $(|a|, |b|, |c|)=1$, then $|a+b+c+d|$ is equal to _____.

---

29. Numerical value · 4 marks

The number of real solutions in the interval $\left[-\frac{3\pi}{2}, \frac{7\pi}{2}\right]$ of the equation $4\sin^2 x-8\sin x+3=0$ is _____.

---

30. Numerical value · 4 marks

Let $A_1, A_2, A_3, \ldots\ldots$ be an increasing geometric progression. If $\frac{1}{A_4}+\frac{1}{A_8}=\frac{10}{63}$ and $A_5A_7=441$, then $3(A_2+A_4)$ is equal to _____.

---

31. 4 marks

Which among the following is the full form of the 'UNESCO' ?

(1) United Nations Educational, Scientific & Cultural Organization.

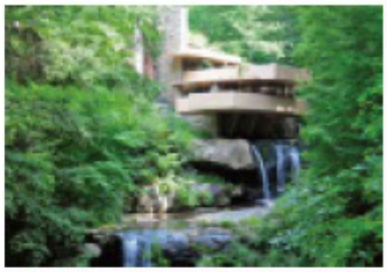
(2) United Nations Educational Security Cultural Organization.

(3) United Nations Entrance Site Calling Organization.

(4) United Nations Educational, Sustainable & Cultural Organization.

32. 4 marks

Match List - I with List - II.

List - I		List - II
(I) Hall of Nation	(a)	
(II) Falling Water, Pennsylvania	(b)	
(III) Petronas Tower	(c)	
(IV) Secretariat	(d)	

(1) (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

(2) (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

(3) (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

(4) (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

33. 4 marks

Match List - I with List - II.

	List - I		List - II
(I)	Kamru	(a)	Victoria Memorial Hall
(II)	Delhi	(b)	Badrinath Temple
(III)	Fatehpur Sikri	(c)	Khirki Masjid
(IV)	Kolkata	(d)	Buland Darwaja

(1) (I)-(b), (II)-(c), (III)-(d), (IV)-(a)

(2) (I)-(b), (II)-(d), (III)-(c), (IV)-(a)

(3) (I)-(c), (II)-(a), (III)-(b), (IV)-(d)

(4) (I)-(b), (II)-(a), (III)-(d), (IV)-(c)

34. 4 marks

Match List - I with List - II.

List - I	List - II
(I) Agra fort	(a) 
(II) Atala Masjid	(b) 
(III) Nalanda University	(c) 
(IV) Jagannatha Temple	(d) 

(1) (I)-(b), (II)-(c), (III)-(a), (IV)-(d)

(2) (I)-(a), (II)-(b), (III)-(c), (IV)-(d)

(3) (I)-(c), (II)-(a), (III)-(d), (IV)-(b)

(4) (I)-(b), (II)-(a), (III)-(c), (IV)-(d)

35. 4 marks

Match List - I with List - II.

	List - I		List - II
(I)	Yadvindra Garden	(a)	Manali
(II)	Vishnu Temple	(b)	Amritsar
(III)	Hidimba Temple	(c)	Pinjore
(IV)	Hari Mandir	(d)	Buniyar

(1) (I)-(c), (II)-(d), (III)-(b), (IV)-(a)

(2) (I)-(c), (II)-(d), (III)-(a), (IV)-(b)

(3) (I)-(d), (II)-(b), (III)-(c), (IV)-(a)

(4) (I)-(b), (II)-(d), (III)-(a), (IV)-(c)

---

36. 4 marks

Match List - I with List - II.

	List - I		List - II
(I)	Mehrangarh Fort	(a)	Hyderabad
(II)	Siri Fort	(b)	Kolkata
(III)	Golconda Fort	(c)	Delhi
(IV)	Fort William	(d)	Jodhpur

Choose the correct answer from options given below :

(1) (I)-(a), (II)-(d), (III)-(b), (IV)-(c)

(2) (I)-(d), (II)-(c), (III)-(a), (IV)-(b)

(3) (I)-(d), (II)-(c), (III)-(b), (IV)-(a)

(4) (I)-(a), (II)-(b), (III)-(d), (IV)-(c)

---

37. 4 marks

Book 'God of small things' is written by which Indian Architect ?

(1) B.V. Doshi

(2) Arundhati Roy

(3) Revati Kamat

(4) Bimal Patel

---

38. 4 marks

'Jharokha' is a type of window mostly found in :

(1) Gujarat

(2) West Bengal

(3) Tamil Nadu

(4) Rajasthan

---

39. 4 marks

The monsoon wind enters in Indian sub-continent from which direction ?

(1) North-West side
(2) South-East side
(3) North side
(4) South-West side

40. 4 marks

Which of the following building represents the colonial Architectural pattern in India ?

(1) Bharat Bhavan in Bhopal
(2) LIC Building in Delhi
(3) Charminar in Hyderabad
(4) Victoria Memorial in Kolkata

41. 4 marks

What is the size of A2 Drawing sheet ?

(1) 420×590 (mm $\times$ mm)
(2) 420×594 (mm $\times$ mm)
(3) 297×420 (mm $\times$ mm)
(4) 420×592 (mm $\times$ mm)

42. 4 marks

Victory Tower belongs to which of the following fort :

(1) Chittor fort
(2) Jaigarh fort
(3) Bhangarh fort
(4) Amer fort

43. 4 marks

Which amongst the following Architect has designed the famous Temple "Akshardham" ?

(1) Sanjay Puri
(2) Vikram Lall
(3) Ashok Lall
(4) C. Sompura

44. 4 marks

'Volume Zero' Documentary is on which Architect ?

(1) Charles Correa
(2) Richard Mier
(3) Jasbir Sachdev
(4) Ranjit Sabliki

collegedunia

45. 4 marks

'Agenda 21' is declaration related with :

(1) Climate change
(2) Global warming
(3) Sustainable development
(4) Smart city

46. 4 marks

Gold mines are situated in which state of India ?

(1) Karnataka
(2) Orissa
(3) Maharashtra
(4) Uttar Pradesh

47. 4 marks

In the Southern Hemisphere shadowless light is from which direction ?

(1) North
(2) South
(3) East
(4) West

48. 4 marks

The first Indian Architect who has won Pritzker Prize in 2018 is :

(1) B.V. Doshi
(2) Laurie Baker
(3) Raj Rewal
(4) Achyut Kanvinde

49. 4 marks

Word "Bungalow" has originated from :

(1) Bengalurm
(2) Banaras
(3) Bengal
(4) Bari

50. 4 marks

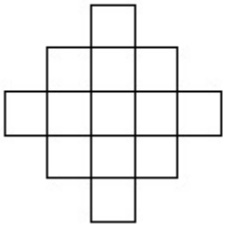
The IIM - Ahmedabad is designed by which of the following Architect ?

(1) Laurie Baker
(2) Louis Kahn
(3) Lutyen
(4) Le Corbusier

collegedunia

51. 4 marks

In the given figure, how many squares are present ?



(1) 14

(2) 13

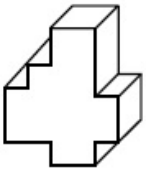
(3) 15

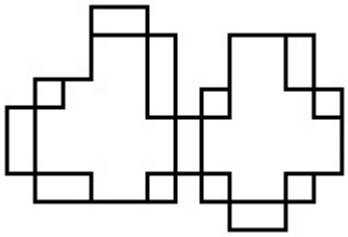
(4) 18

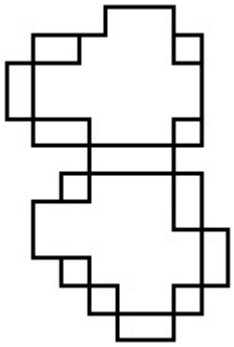
---

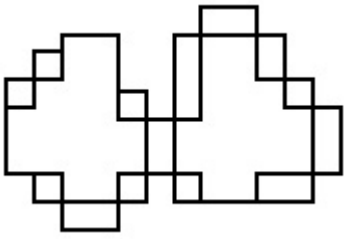
52. 4 marks

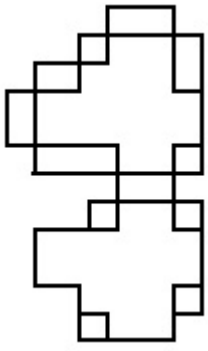
A drawing is provided with all the folds to construct the following three Dimensional object. Select the correct one.



(1) 

(2) 

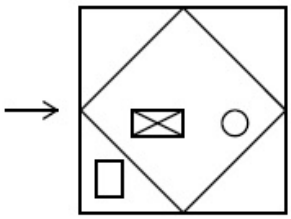
(3) 

(4) 

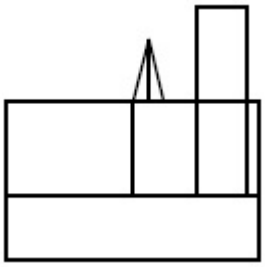
---

53. 4 marks

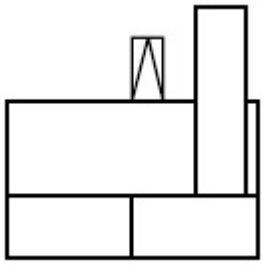
The problem figure shows the top view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



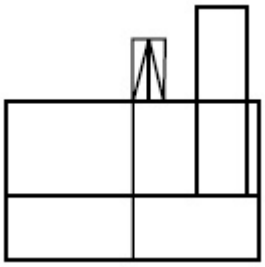
(1)



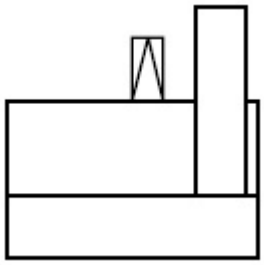
(2)



(3)

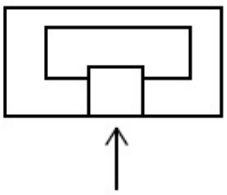


(4)

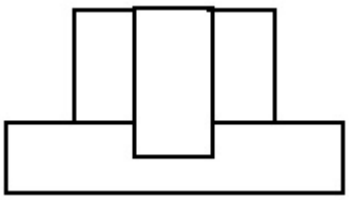


54. 4 marks

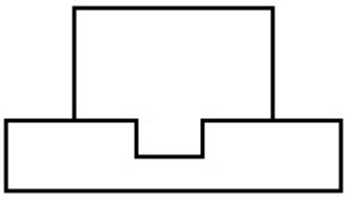
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



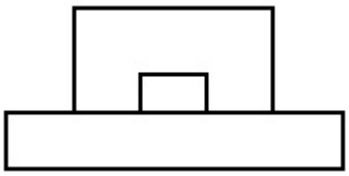
(1)



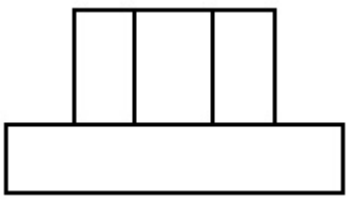
(2)



(3)

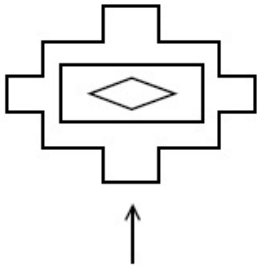


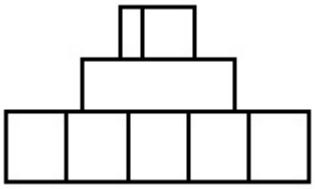
(4)

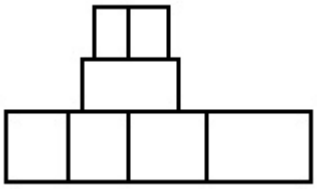


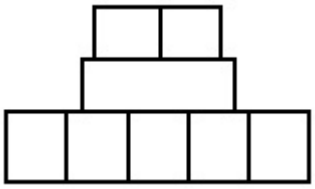
55. 4 marks

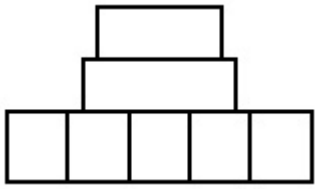
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



(1) 

(2) 

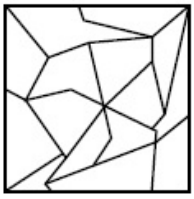
(3) 

(4) 

---

56. 4 marks

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



(1) 

(2) 

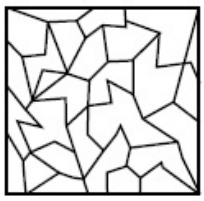
(3) 

(4) 

---

57. 4 marks

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



(1) 

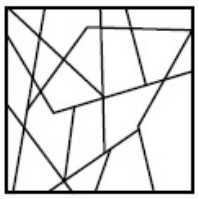
(2) 

(3) 

(4) 

58. 4 marks

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



(1) 

(2) 

(3) 

(4) 

59. 4 marks

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



(1) 

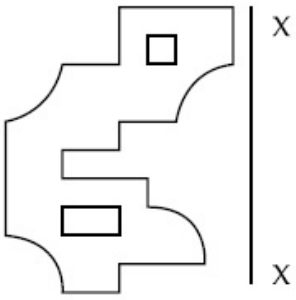
(2) 

(3) 

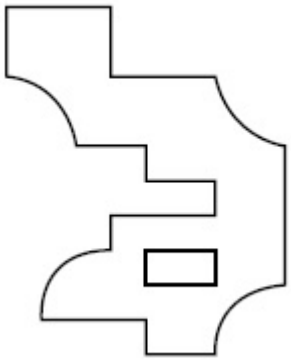
(4) 

60. 4 marks

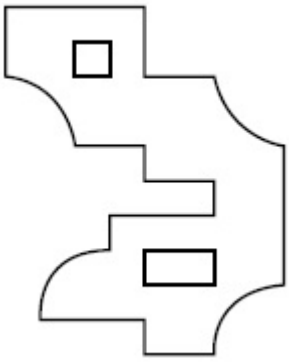
Which one of the answer figures is correct mirror image of problem figure with respect to X-X ?



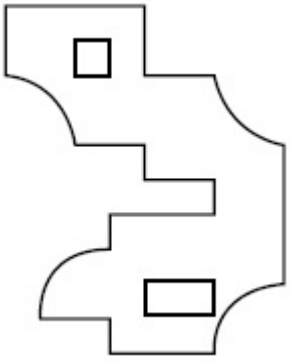
(1)



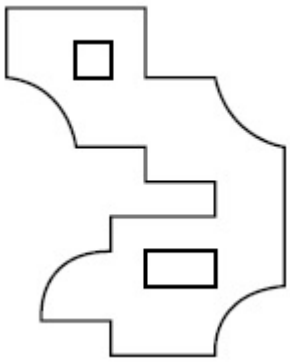
(2)



(3)

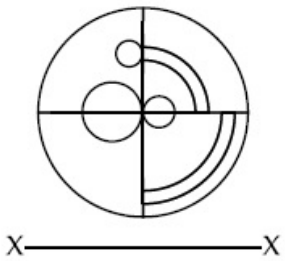


(4)

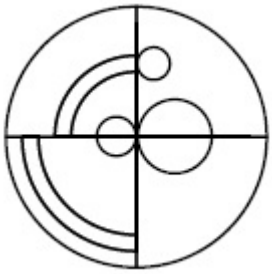


61. 4 marks

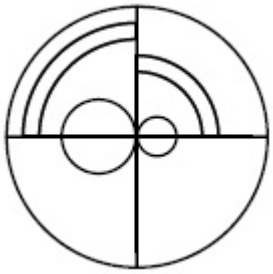
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



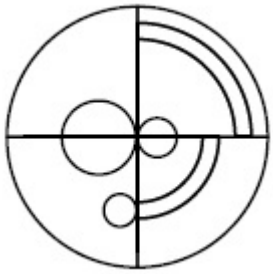
(1)



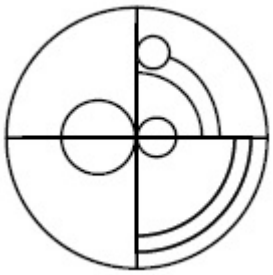
(2)



(3)

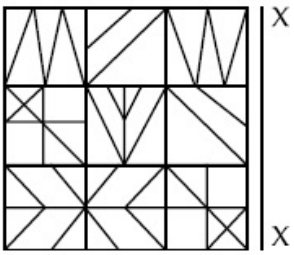


(4)

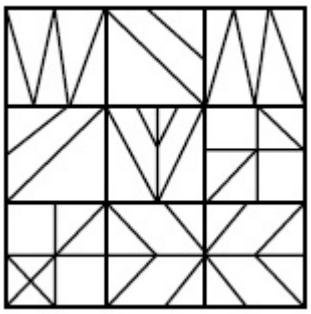


62. 4 marks

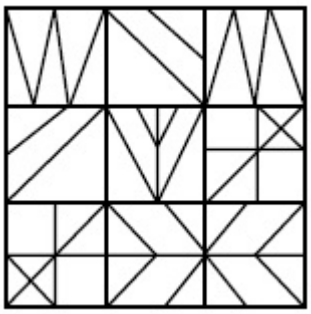
Which one of the answer figures is the correct mirror image of the problem figure with respect to X-X ?



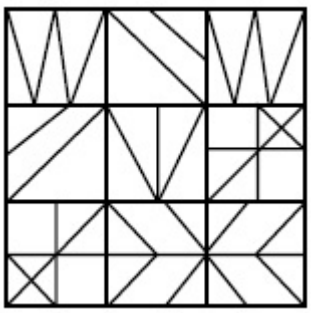
(1)



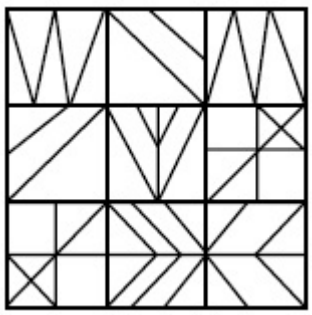
(2)



(3)

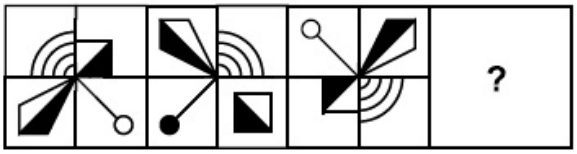


(4)



63. 4 marks

Which one of the answer figures complete the sequence of the problem figure ? Select the correct one.



(1) 

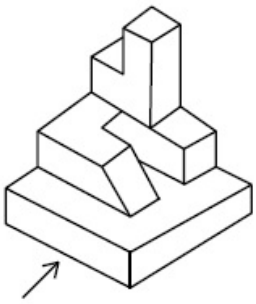
(2) 

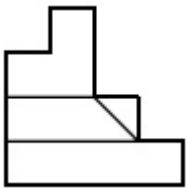
(3) 

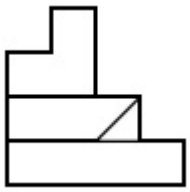
(4) 

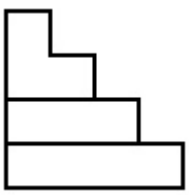
64. 4 marks

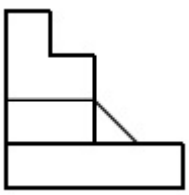
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

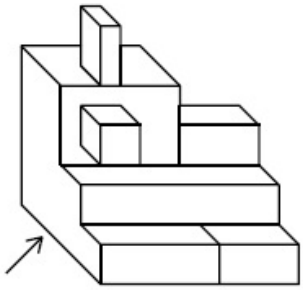
(2) 

(3) 

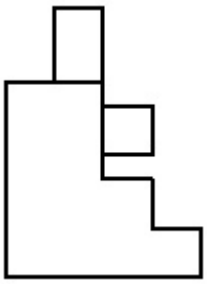
(4) 

65. 4 marks

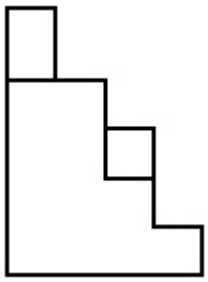
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



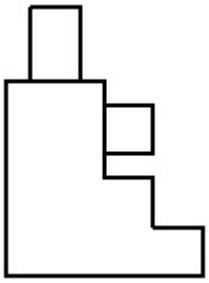
(1)



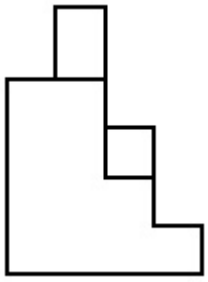
(2)



(3)

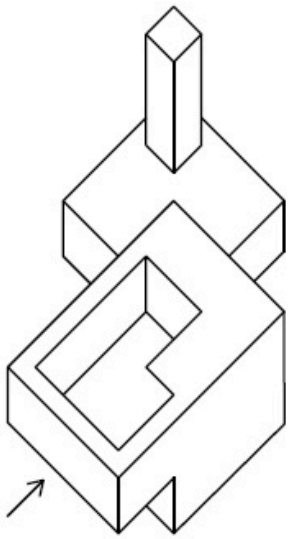


(4)

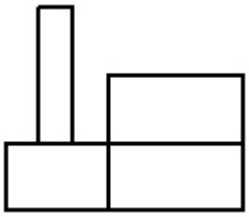


66. 4 marks

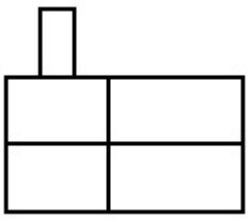
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



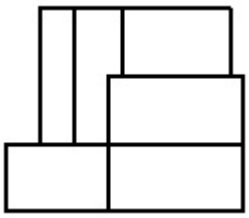
(1)



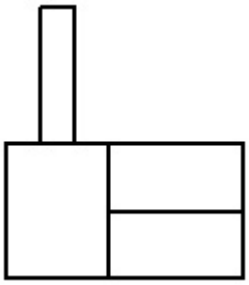
(2)



(3)

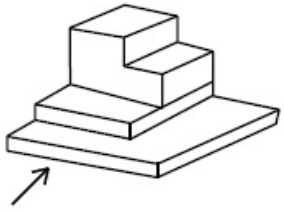


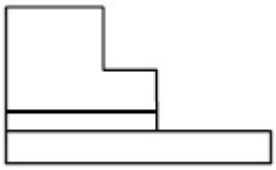
(4)

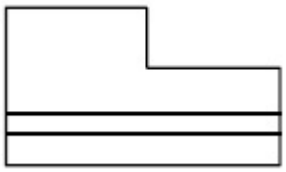


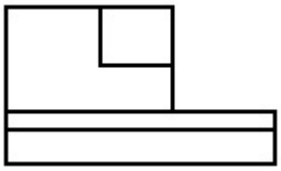
67. 4 marks

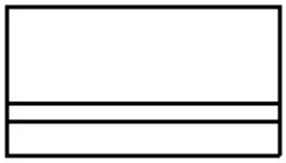
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

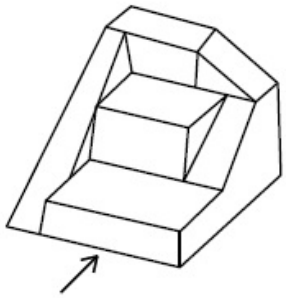
(2) 

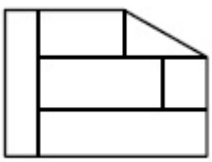
(3) 

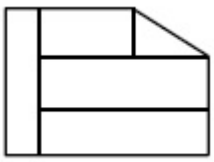
(4) 

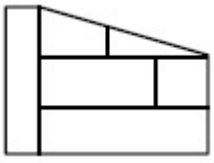
68. 4 marks

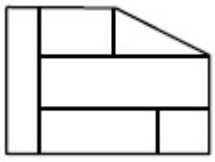
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

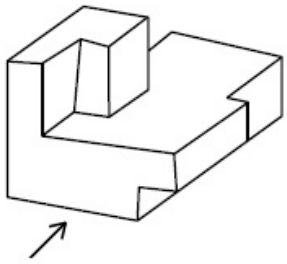
(2) 

(3) 

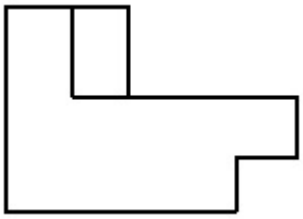
(4) 

69. 4 marks

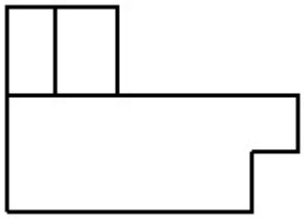
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



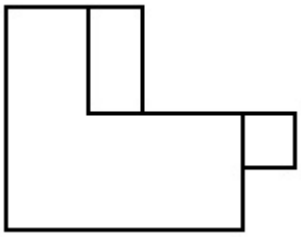
(1)



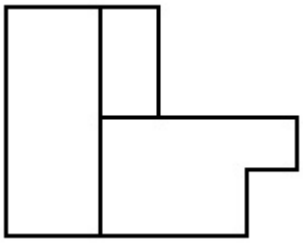
(2)



(3)

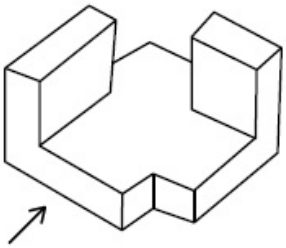


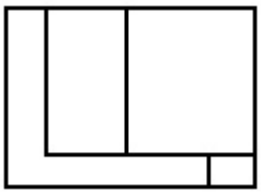
(4)

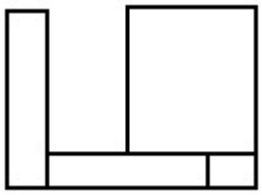


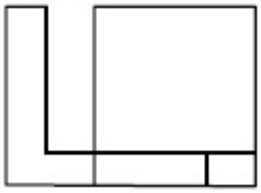
70. 4 marks

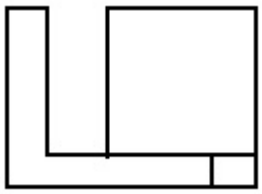
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

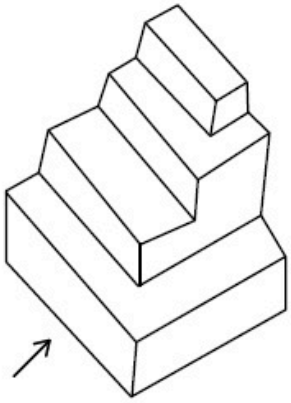
(2) 

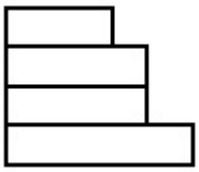
(3) 

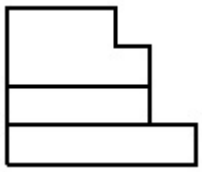
(4) 

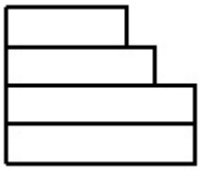
71. 4 marks

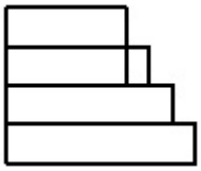
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

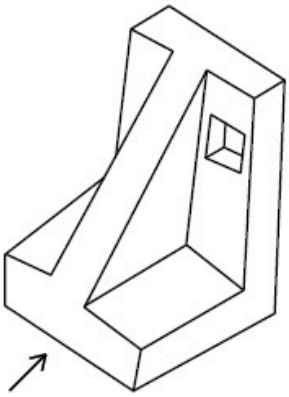
(2) 

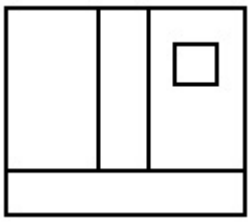
(3) 

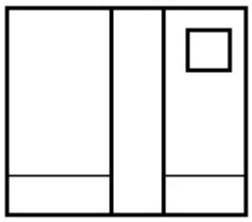
(4) 

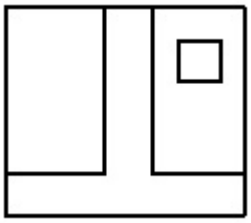
72. 4 marks

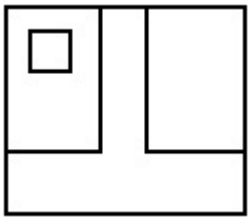
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

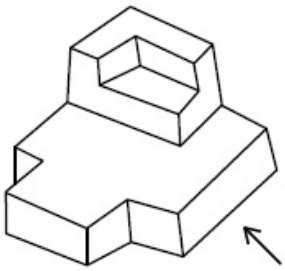
(2) 

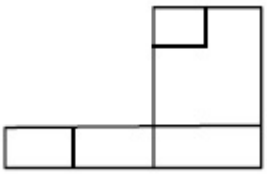
(3) 

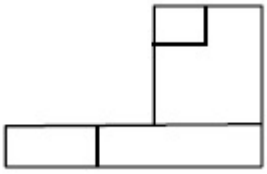
(4) 

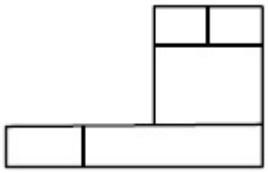
73. 4 marks

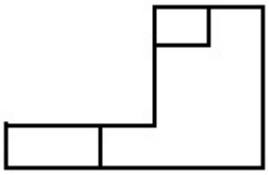
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

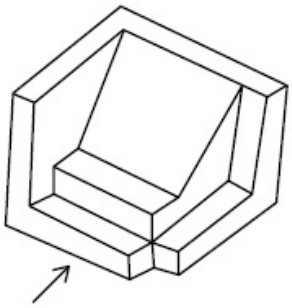
(2) 

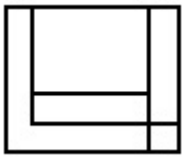
(3) 

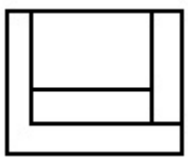
(4) 

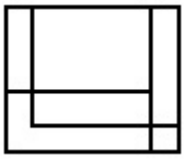
74. 4 marks

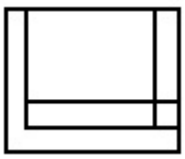
The 3D figure shows the view of an object. Identify the correct view looking in the direction of arrow, amongst the answer figures.



(1) 

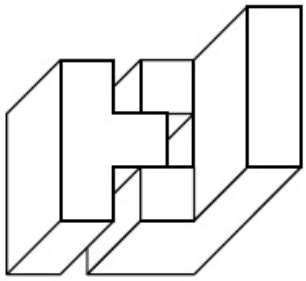
(2) 

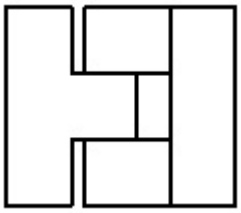
(3) 

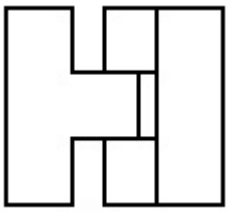
(4) 

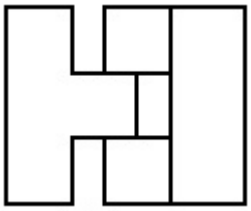
75. 4 marks

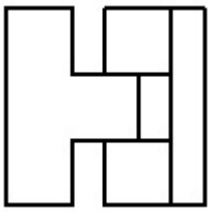
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.



(1) 

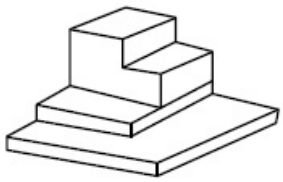
(2) 

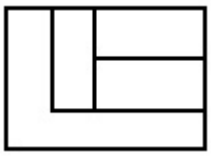
(3) 

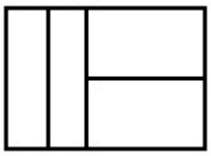
(4) 

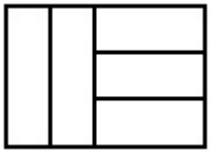
76. 4 marks

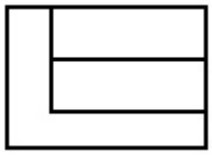
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.



(1) 

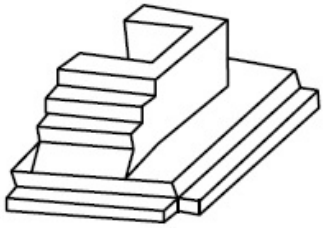
(2) 

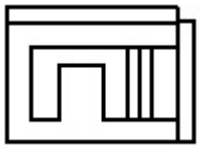
(3) 

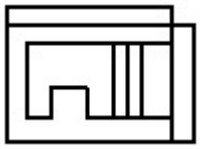
(4) 

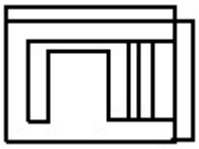
77. 4 marks

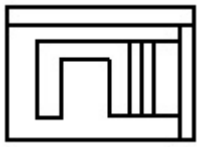
The 3D figure shows the view of an object. Identify the correct top view, amongst the answer figures.



(1) 

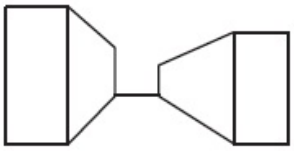
(2) 

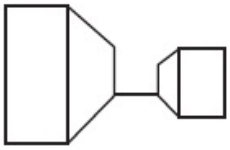
(3) 

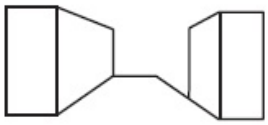
(4) 

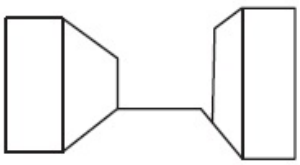
78. 4 marks

Identify the building compositions of having less visual tension amongst the following figures.

(A) 

(B) 

(C) 

(D) 

(1) (A) and (B)

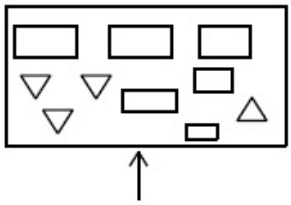
(2) (B) and (C)

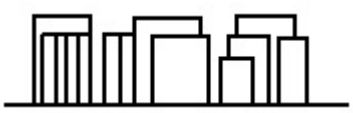
(3) (C) and (D)

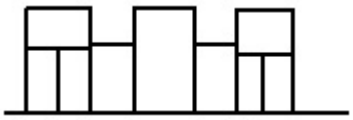
(4) (D) and (A)

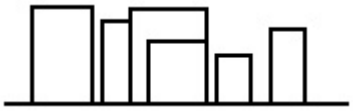
79. 4 marks

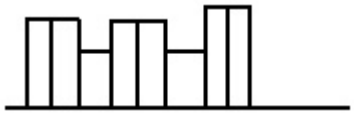
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



(1) 

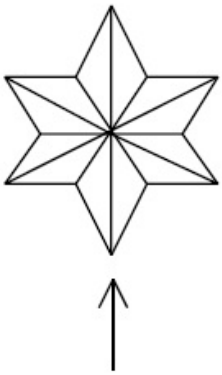
(2) 

(3) 

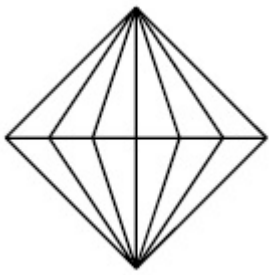
(4) 

80. 4 marks

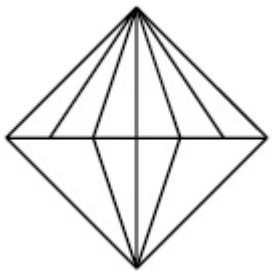
The problem figure shows the top view of an object. Identify the correct elevation amongst the answer figures looking in the direction of arrow.



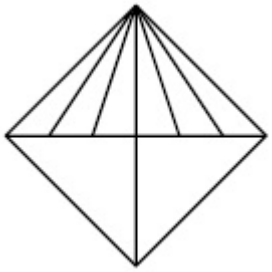
(1)



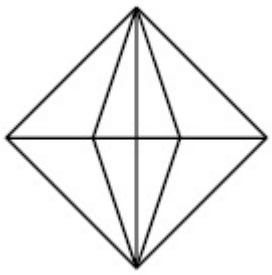
(2)



(3)



(4)



Drawing

81. 50 marks

Draw a proportionate sketch of given reference image by using any black and white rendering techniques of your own choice.

OR

Decode image and prepare balanced composition in a frame of your choice by using any black and white rendering techniques.



82. 50 marks

Draw a scene of a Kite festival by using colors.

OR

Draw a Harmonic three dimensional composition with the following two types of objects.

(i) CUBOID A : SIZE 2 cm × 2 cm × 2 cm, 5 Nos.

(ii) CUBOID B : SIZE 5 cm × 2 cm × 2 cm, 4 Nos.

Use 'Cool Colorscheme' for composition.