

JEE Main 2026 April 7 Shift 2 B.Arch

Question Paper

Conducted by National Testing Agency (NTA)



General Instructions

- (i) The test is of 3 hours duration.
- (ii) This test paper consists of 77 questions. Mathematics has 25 questions, Aptitude Test has 50 questions, and Drawing Test has 2 questions. The maximum marks are 400.
- (iii) This question paper contains Three Parts. Part-A is Mathematics, Part-B is Aptitude Test, and Part-C is Drawing Test. Each part has only two sections: Section-A and Section-B.

1. In a car with seating capacity of exactly five persons, two persons can occupy the front seat and three persons can occupy the back seat. If amongst the seven persons, who wish to travel by this car, only two of them know driving, then the number of ways in which the car can be fully occupied and driven by them, is:

- (A) 360
- (B) 60
- (C) 240
- (D) 720

2. If $|z_1| = |z_2| = |z_3| = 1$ and $z_1 + z_2 + z_3 = \sqrt{2} + i$, then the number $z_1\bar{z}_2 + z_2\bar{z}_3 + z_3\bar{z}_1$ is:

- (A) a positive real number
- (B) a negative real number
- (C) always zero
- (D) a purely imaginary number

3. The value of k for which each root of the equation $x^2 - 6kx + 2k - 9k^2 = 0$ is greater than 3, always satisfy the inequality:

- (A) $7 - 9y > 0$
 - (B) $11 - 9y < 0$
 - (C) $29 - 11y > 0$
 - (D) $29 - 11y < 0$
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4. If in the binomial expansion of $(1 - x)^m(1 + x)^n$, the coefficients of x and x^2 are respectively 3 and -4, then the ratio $m : n$ is equal to:

- (A) 10 : 7
 - (B) 8 : 11
 - (C) 10 : 13
 - (D) 7 : 10
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5. If $\sum_{k=1}^n \varphi(k) = \frac{2\pi}{n+1}$, then $\sum_{k=1}^{10} \frac{1}{\varphi(k)}$ is equal to:

- (A) $\frac{11}{20}$
 - (B) 220
 - (C) $\frac{55}{18}$
 - (D) 10
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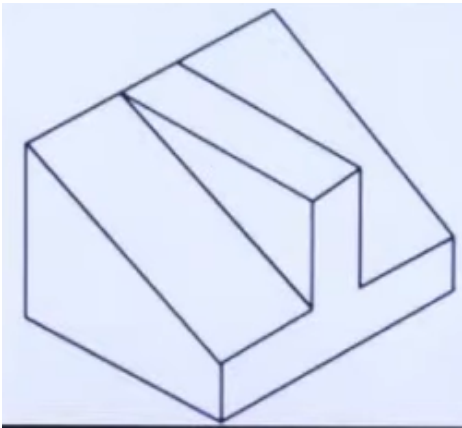
6. Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be a function defined by $f(x) = \frac{e^{|x|} - e^{-x}}{e^x + e^{-x}}$, then f is:

- (A) One-one and onto.
 - (B) One-one but not onto.
 - (C) Onto but not one-one.
 - (D) Neither onto nor one-one.
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7. If you draw an object measuring 1 cm on the paper, what would it be equivalent to at a scale of 1:100?

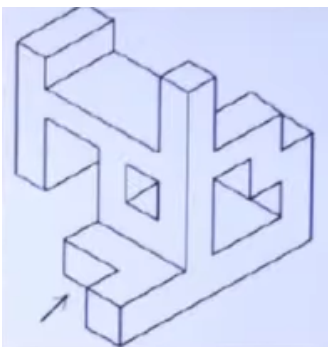
- (A) 10 cm
 - (B) 1 meter
 - (C) 10 meters
 - (D) 1 cm
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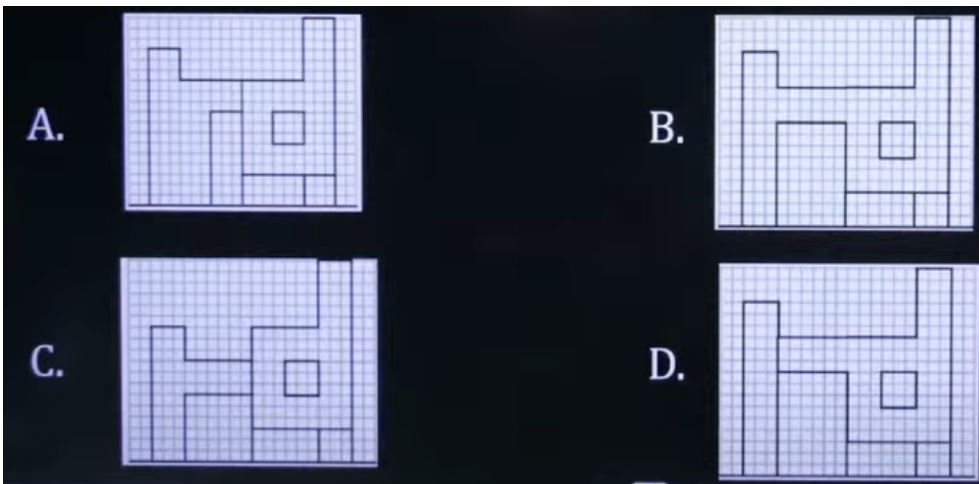
8. Identify the total number of surfaces in the given 3D object.



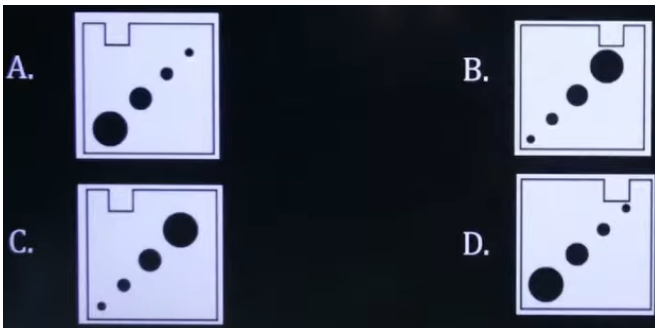
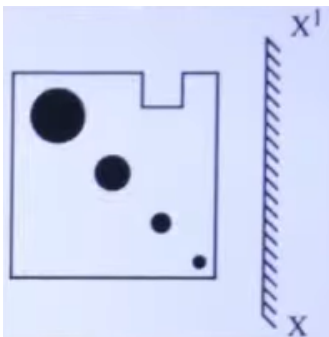
- (A) 9
 - (B) 10
 - (C) 8
 - (D) 12
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9. The question figure shows the 3D view of the object. Choose the correct 2D view (Elevation) of the object looking in the direction of the arrow shown.

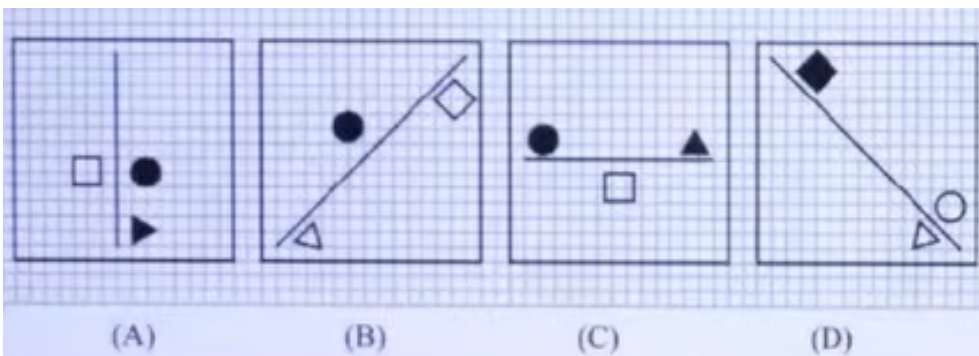




10. Identify the Mirror image of the given figure along $X - X'$ axis.



11. Find out the odd one.



(A) D

- (B) C
 - (C) B
 - (D) A
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12. The Indian architect known for designing the Hall of Nations (demolished in 2017) in New Delhi was:

- (A) Balkrishna Doshi
 - (B) Raj Rewal
 - (C) Charles Correa
 - (D) Laurie Baker
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13. Which material is most suitable for long-span tensile structures?

- (A) Reinforced concrete
 - (B) Structural steel
 - (C) PVC-coated polyester fabric
 - (D) Burnt clay brick
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14. The Jawahar Kala Kendra in Jaipur was designed by:

- (A) Charles Correa
 - (B) B.V. Doshi
 - (C) Joseph Allen Stein
 - (D) Achyut Kanvinde
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