

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. x - axis B. z - axis C. y - axis D. None of these
2	The vertex of the parabola $x^2 = 4ay$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(0, 0)$
3	Question Image	A. $-\operatorname{cosec} x \cot x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec}^2 x$ D. $\operatorname{cosec} x \cot x$
4	Question Image	A. c B. 0 C. 1 D. -c
5	Question Image	A. [0] B. [0, 0] C. [0, 0, 0] D. None of these
6	Question Image	A. 3 B. 4 C. 5 D. 6
7	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section is a/an:	A. Parabola B. Hyperbola C. Ellipse D. None of these
8	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. Integration C. Differential D. None of these
9	Question Image	
10	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
11	The center of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. $(-g, -f)$ B. $(-f, -g)$ C. $(0, 0)$ D. (g, f)
12	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
13	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. Positive B. Positive or negative C. Negative D. Positive and negative
14	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
15	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
16	The line $y = a$ is below the x-axis, if:	A. $a > 0$ B. $a < 0$ C. $a = 0$

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Question Image

- A. equal to each other
- B. not equal to each other
- C. nearly equal to each other
- D. None of these

18

The horizontal line $x' ox$ is called:

- A. x-axis
- B. y-axis
- C. abscissa
- D. ordinate

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The graph of the parabola $x^2 = 4ay$ lies in quadrant:

- A. I and II
- B. III and IV
- C. II and III
- D. I and III

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Question Image

- A. Position vector
- B. Null vector
- C. Unit vector
- D. None of these