

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 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	A. Convergent B. Divergent C. Increasing D. Decreasing
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. $a = 0$

17 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

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

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

20 Question Image

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