

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
2	The focus of the parabola $y^2=4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
3	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective function C. Minimum function D. None of these
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. domain B. range C. lower limit D. upper limit
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. 2 D. 4
6	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a / an:	A. Parabola B. Circular cone C. Ellipse D. Circle
7	The ratio in which x-axis divides the line segment joining the points:	A. 1 : 1 B. 1 : 3 C. 1 : 5 D. 1 : 2
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Circle B. Parabola C. Hyperbola D. Ellipse
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. [0] B. [0, 0] C. [0, 0, 0] D. None of these
10	X-coordinate of any point on Y-axis:	A. 0 B. x C. y D. 1
11	The directrix of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sin x$ B. $-\cos x$ C. $-\sin x$ D. $\cos x$
13	The distance between the points (1, 2), (2, 1).	A. 1 D. 2
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. Integrand C. Constant of integration D. None of these
		A. $5 \sin x$

- 16 Question Image B. $\cosh(5x)$
C. $5 \cosh(5x)$
D. $-5 \cosh(5x)$
-
- 17 Question Image A. $\sinh x$
B. $\cosh x$
C. $-\sinh x$
D. $-\cosh x$
-
- 18 A line through a point say P perpendicular to the tangent to the curve at P is called:
A. Straight line
B. Tangent line
C. Normal line
D. None of these
-
- 19 $f(x)$ is odd function. If and only if:
A. $f(-x) = -f(x)$
B. $f(-x) = f(x)$
C. $f(x) = 3f(-x)$
D. $f(x) = -3f(-x)$
-
- 20 The centroid of a triangle is a point that divides each median in the ratio:
A. 2 : 1
B. 2 : 3
C. 1 : 3
D. 4 : 3