

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
2	If r is the radius of the circle and its center is at origin, then equation of circle is:	A. $x^2 + y^2 = a^2$ B. $x^2 + y^2 = r^2$ C. $x^2 - y^2 = a^2$ D. $x^2 - y^2 = r^2$
3	If a circle and a line intersect in two points, then the line is called:	A. A chord B. A secant C. A diameter D. None of these
4	If the equation of the parabola is $y^2 = 4ax$, then opening of the parabola is to the right of the:	A. x-axis B. $y = x$ C. y-axis D. $x + y = 0$
5	The axis of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
6	The conic is a parabola, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
7	Length of tangent from $(0,1)$ to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
8	The directrix of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
9	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. Ellipse B. Parabola C. Hyperbola D. Circle
10	The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
11	If equation of circle is $(x - h)^2 + (y - k)^2 = r^2$, then center of a circle:	A. $(-h, -k)$ B. (h, k) C. $(-h, k)$ D. $(h, -k)$
12	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
13	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
14	If the equation of the parabola is $y^2 = -4ax$, then opening of the parabola is to the _____ of the y-axis:	A. Left B. Upward C. Right D. Downward

15	$y^2 = 4ax$, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these
16	The axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = -a$ C. $y = 0$ D. $y = -a$
17	If the equation of the parabola is $x^2 = 4ay$, then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
18	Question Image <input type="text"/>	A. Circle B. Parabola C. Hyperbola D. Ellipse
19	An angle in a semi-circle is:	A. 0° B. 90° C. 180° D. 60°
20	The vertex of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$