

## Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is $c = $ :	
2	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
3	One of the angles of a triangle inscribed in a circle is of 40°. If one of its' the diameter, the other angles have the measures:	A. 30°, 110° B. 40°, 100° C. 50°, 90° D. 20°, 120°
4	Two imaginary tangents can be drawn to a circle from any point P(x <sub>1</sub> , y <sub>1</sub> ) the circle:	A. Inside B. On C. Outside D. None of these
5	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
6	The directrix of the parabola $y^2 = 4ax$ is:	A. x = a B. x = -a C. y = a D. y = - a
7	The opening of the parabola $y^2 = 4ax$ is to the of the:	A. Left B. Upward C. Right D. Downward
8	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
9	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. a B. 4a C. 2a D. None of these
10	If the equation of the parabola $x^2$ = 4ay, then opening of the parabola is upward of the:	A. x-axis B. y-axis C. Major axis D. Minor axis
11	The point of a parabola which is closest to the focus in the:	A. Directrix B. Vertex C. Focus D. Chord
12	The set of all points in the plane that are equally distant from a fixed point is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
13	Point p (-5, 6) lies the circle $x^2 + y^2 + 4x - 6y - 12 = 0$	A. Outside B. Inside C. On D. None of these
14	the focal chord perpendicular to the axis of the parabola is called of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
15	An angle in a semi-circle is:	A. 0° B. 90° C. 180° D. 60°
		A. Straight line

16	A line through a point say P perpendicular to the tangent to the curve at P is called:	B. I angent line C. Normal line D. None of these
17	The axis of the parabola $x^2$ = 4ay is:	A. x = 0 B. x = -a C. y = 0 D. y = -a
18	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0
19	The radius of point circle is:	A. 0 B. (0, 0) C. r D. 1
20	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