

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The vertex of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
2	A line segment whose end points lie on the circle is called a of the circle.	A. Radius B. Chord C. Diameter D. None of these
3	The focus of the parabola $x^2 = 4ay$:	A. (0, a) B. (-a, 0) C. (0, -a) D. (a, 0)
4	The vertex of parabola $(x - 1)^2 = 8 (y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
5	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
6	If the focus lies on the x-axis with coordinates $F(a,0)$ and directrix of the parabola is = - a then the equation of parabola is:	A. x ² = 4ay B. y ² = 4ax Cx ² = 4ay Dy ² = 4ax
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 axis of the parabola $y^2 = 4ax$ is:	A. x = 0 B. x = a C. y = 0 D. y = a
9	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
10	The directrix of the parabola $x^2 = 4ay$ is:	A. x = a B. x = -a C. y = a D. y = -a
11	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
12	Two real and distinct tangents can be drawn to a circle from any point $P(x_1, y_1)$ the circle:	A. Inside B. On C. Outside D. None of these
13	y^2 = 4ax, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these
14	A chord passing through the focus of a parabola is called a of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
15	Two arcs of two different circles are congruent if:	A. The circles are congruent B. The corresponding central angles are congruent C. Both a and b

		D. None of the above
16	If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies outside the circle only if:	A. CP < r B. CP = r C. CP > r D. None of these
17	If the equation of the parabola is $y2 = 4ax$, then opening of the parabola is to the right of the:	A. x-axis B. y = x C. y-axis D. x + y =0
18	An angle in a semi-circle is:	A. 0° B. 90° C. 180° D. 60°
19	The equ. of directrix of the parabola $y^2 = -4ax$ is:	A. x = a B. x = - a C. y = a D. y = -a
20	Perpendicular dropped from the center of a circle on a chord the chord:	A. Normal B. Bisects C. Equal to D. None of these