

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The directrix of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
2	The curves obtained by cutting a _____ double right circular cone by a _____ are called conics:	A. Straight line B. Plane C. Curve D. None of these
3	If the focus lies on the x-axis with coordinates $F(a, 0)$ and directrix of the parabola is $x = -a$ then the equation of parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $-x^2 = 4ay$ D. $-y^2 = 4ax$
4	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. $(h, -k)$
5	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
6	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. $x^2 - y^2 = r^2$
7	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
8	A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is:	A. 4 cm B. 3cm C. 2.5cm D. 3.4cm
9	The axis of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
10	The focus of the parabola $x^2 = -4ay$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
11	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
12	Two circles of radius 3 cm and 4 cm touch each other externally. The distance between their centers is:	A. 1 cm B. 7cm C. 4cm D. 5cm
13	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
14	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity

15	A line segment joining two distinct points on a parabola is called a _____ of the parabola:	A. Chord B. Vertex C. Focus D. Directrix
16	The vertex of the parabola $y^2 = 4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
17	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
18	The focus of the parabola $x^2 = 4ay$:	A. $(0, a)$ B. $(-a, 0)$ C. $(0, -a)$ D. $(a, 0)$
19	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
20	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