

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	If the focus lies on the y - axis with coordinates F(0, a) and directrix of the parabola is $y = -a$, then the equation of parabola is:	A. $x^2 = 4ay$ B. $-x^2 = 4ay$ C. $-y^2 = 4ax$ D. $y^2 = 4ax$
2	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
3	The axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = -a$ C. $y = 0$ D. $y = -a$
4	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. $30^\circ, 110^\circ$ B. $40^\circ, 100^\circ$ C. $50^\circ, 90^\circ$ D. $20^\circ, 120^\circ$
5	If a point lies inside a circle, then its distance from the center is:	A. Equal to the radius B. Less than the radius C. Greater than the radius D. Equal to or greater than the
6	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
7	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
8	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
9	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
10	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
11	Question Image	
12	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
13	If the cutting plane is slightly tilted and cuts only one nappe of the cone, then the section is a / an:	A. Ellipse B. Circular cone C. Circle D. Point circle
14	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
15	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
16	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right

17 Two imaginary 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

18 The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:
A. (1, -2)
B. (0, 1)
C. (-1, -2)
D. (1, 2)

19 The axis of the parabola $y^2 = -4ax$ is:
A. $x = a$
B. $x = 0$
C. $y = a$
D. $y = 0$

20 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