

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The focus of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
2	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
3	Equation of axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
4	The vertex of the parabola $y^2 = 4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
5	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
6	The directrix of the parabola $x^2 = 4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
7	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. $y = x$ C. y-axis D. None of these
8	Perpendicular dropped from the center of a circle on a chord _____ the chord:	A. Normal B. Bisects C. Equal to D. None of these
9	The two parts of a right circular cones are called:	A. Nappes B. Apex of the cone C. Generator D. Vertex
10	The radius of circle $x^2 + y^2 + ax + by + c = 0$ is:	D. None
11	The conic is an ellipse, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
12	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
13	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. $x^2 + y^2 = a^2 - y^2 = a^2$ D. $x^2 + y^2 = r^2$
14	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
15	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius

D. None of these

16 The opening of the parabola $y^2 = 4ax$ is to the _____ of the:

- A. Left
- B. Upward
- C. Right
- D. Downward

17 The opening of the parabola $x^2 = 4ay$ is upward of the:

- A. x-axis
- B. y = c
- C. y-axis
- D. x = y

18 The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:

- A. (-3, 2)
- B. (3, -2)
- C. (3, 2)
- D. (-3, -2)

19 The graph of the parabola $x^2 = 4ay$ lies in quadrant:

- A. I and II
- B. III and IV
- C. II and III
- D. I and III

20 The equ. of directrix of the parabola $y^2 = -4ax$ is:

- A. $x = a$
- B. $x = -a$
- C. $y = a$
- D. $y = -a$