

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	If the equation of the parabola is $y^2 = 4ax$, then opening of the parabola is to the right of the:	A. x-axis B. $y = x$ C. y-axis D. $x + y = 0$
2	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
3	An angle in a semi-circle is:	A. 0° B. 90° C. 180° D. 60°
4	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
5	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
6	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
7	In equation of circle, coefficient of each of x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
8	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
9	If the equation of the parabola is $y^2 = -4ax$, then opening of the parabola is to the _____ of the y-axis:	A. Left B. Upward C. Right D. Downward
10	The graph of the parabola $y^2 = -4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and III
11	The conic is an ellipse, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
12	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
13	The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
14	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)
15	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (a, 0)

D. (0, 0)

16 The directrix of the parabola $x^2 = 4ay$ is:

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

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 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

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- B. 0
- C. 4
- D. 7

20 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