

Ics Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The fixed point of the conic is called:	A. Directrix B. Vertex C. Focus D. None of these
2	The directrix of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
3	The vertex of the parabola $x^2 = 4ay$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(0, 0)$
4	The focus of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
5	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section is / an:	A. Parabola B. Hyperbola C. Ellipse D. None of these
6	An angle in a semi-circle is:	A. 0° B. 90° C. 180° D. 60°
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 parabola $x^2 = -4ay$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and III
9	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
10	Length of tangent from $(a, 0)$ to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	B. c C. $2g + 2f - c$ D. None
11	If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies on the circle only if:	A. $ CP \leq r$ B. $ CP \geq r$ C. $ CP = r$ D. None of these
12	The equ. of directrix of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
13	<div style="border: 1px solid black; width: 500px; height: 20px; margin-bottom: 5px;"></div> Question Image	A. $x = 0$ B. $y = -a$ C. $y = 0$ D. $y = -a$
14	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
15	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

16	The radius of circle $x^2 + y^2 + ax + by + c = 0$ is:	D. None
17	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
18	The vertex of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
19	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
20	A line segment joining two distinct points on a parabola is called a _____ of the parabola:	A. Chord B. Vertex C. Focus D. Directrix