

## FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	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
2	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. a B. 2b C. b D. 2a
3	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. $x^2 + y^2 = r^2$
4	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
5	In the case of translation of axes which formula is true:	A. $x = X - h$ B. $x = X + h$ C. $x + X = h$ D. None
6	One of the angles of a triangle inscribed in a circle is of $40^\circ$ . 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. $20^\circ, 120^\circ$
7	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
8	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
9	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
10	The vertex of the parabola $y^2 = 4ax$ is:	A. $(-a, 0)$ B. $(a, 0)$ C. $(0, -a)$ D. $(0, 0)$
11	The conic is an ellipse, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
12	The radius of circle $x^2 + y^2 + ax + by + c = 0$ is:	D. None
13	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
14	The focus of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
15	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

16	The focus of the parabola $x^2 = -4ay$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
17	The axis of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
18	The focus of the parabola $y^2 = 4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
19	Length of tangent from $(0,1)$ to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
20	Equation of axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$