

FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
2	The point of a parabola which is closest to the focus is the:	A. Directrix B. Vertex C. Focus D. Chord
3	The opening of the parabola $y^2 = -4ax$ is to the left of the:	A. x-axis B. $x = 1$ C. y-axis D. $x = 0$
4	The distance between the center of a circle and any point of the circle is called:	A. Tangents B. Secant C. Diameter D. Radius
5	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
6	The focus of the parabola $x^2 = 4ay$:	A. (0, a) B. (-a, 0) C. (0, -a) D. (a, 0)
7	<div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">Question Image</div>	A. Ellipse B. Parabola C. Hyperbola D. Circle
8	The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
9	The radius of circle $x^2 + y^2 + ax + by + c = 0$ is:	D. None
10	The vertex of the parabola $x^2 = -4ay$ is:	A. (a, 0) B. (0, 0) C. (0, -a) D. (0, a)
11	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
12	A line segment whose end points lie on the circle is called a _____ of the circle.	A. Radius B. Chord C. Diameter D. None of these
13	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
14	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
15	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
16	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse

D. Point circle

17 The focus of the parabola $y^2 = -4ax$ is:

- A. $(-a, 0)$
- B. $(0, a)$
- C. $(0, -a)$
- D. $(a, 0)$

18 A line through a point say P perpendicular to the tangent to the curve at P is called:

- A. Straight line
- B. Tangent line
- C. Normal line
- D. None of these

19 The point where the axis meets the parabola is called _____ of the parabola:

- A. Directrix
- B. Vertex
- C. Focus
- D. Eccentricity

20 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