

FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	The radius of circle $x^2 + y^2 + ax + by + c = 0$ is:	D. None
2	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
3	Question Image	A. a B. 2b C. b D. 2a
4	If r is the radius of the circle and its center is at origin, then equation of circle is:	$A. x^{2} + y^{2} = a^{2}$ $B. x^{2} + y^{2} = r^{2}$ $C. x^{2} - y^{2} = a^{2}$ $D. x^{2} - y^{2} = r^{2}$
5	Question Image	
6	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
7	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
8	The focus of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (a, 0)
9	If the focus lies on the y - axis with coordinates F(0, a) and directrix of the parabola is $y = -a$, then the equation of parabola is:	$A. x^{2} = 4ay$ $B. -x^{2} = 4ay$ $C. -y^{2} = 4ax$ $D. y^{2} = 4ax$
10	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
11	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
12	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
13	Two circles of radius 3 cm and 4 cm touch each other externally. The distance between their centers is:	A. 1 cm B. 7 cm C. 4 cm D. 5 cm
14	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
15	If r is the radius of any circle and C its center, then any point P(x_1, y_1) lies outside the circle only if:	A. $ CP < r$ B. $ CP = r$ C. $ CP > r$ D. None of these
16	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$

17 The conic is a parabola, if:
A. $e = 1$
B. $e > 1$
C. $0 < e < 1$
D. $e = 0$

18 Equation of axis of the parabola $x^2 = 4ay$ is:
A. $x = 0$
B. $x = a$
C. $y = 0$
D. $y = a$

19 The axis of the parabola $x^2 = 4ay$ is:
A. $x = 0$
B. $x = -a$
C. $y = 0$
D. $y = -a$

20 The distance between the center of a circle and any point of the circle is called:
A. Tangents
B. Secant
C. Diameter
D. Radius
