


FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
2	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
3	The focus of the parabola $y^2=4ax$ is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
4	Measure of the central angle of a minor arc is _____ the measure of the angle subtended in the corresponding major arc.	A. Equal B. Double C. Not equal to D. Triple
5	The radius of point circle is:	A. 0 B. (0, 0) C. r D. 1
6	A line segment joining two distinct points on a parabola is called a _____ of the parabola:	A. Chord B. Vertex C. Focus D. Directrix
7	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. $y^2 = 4ax$
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		B. 0 C. 4 D. 7
10	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
11	The focus of the parabola $x^2=-4ay$ is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
12	A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a:	A. Secant B. Diameter C. Chord D. Tangent
13	The opening of the parabola $x^2= 16y$ is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
14	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
15	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right D. Downward
16	The point of a parabola which is closest to the focus in the:	A. Directrix B. Vertex C. Focus D. Chord

17	The center of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. (-g, -f) B. (-f, -g) C. (0, 0) D. (g, f)
18	If a point lies inside a circle, then its distance from the center is:	A. Equal to the radius B. Less then the radius C. Greater then the radius D. Equal to or greater than the
19	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section a / an:	A. Parabola B. Hyperbola C. Ellipse D. None of these
20	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