


FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	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
2	A line segment having both the end-points on a circle and not passing through the center is called a:	A. A chord B. A secant C. A diameter D. None of these
3	The directrix of the parabola $x^2 = 4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
4	The equi. of latus-rectum of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
5	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
6	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
7	If the focus lies on the x-axis with coordinates $F(a, 0)$ and directrix of the parabola is $x = -a$ then the equation of parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $x^2 = -4ay$ D. $y^2 = -4ax$
8		A. a B. $2b$ C. b D. $2a$
9	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. $(1, -2)$ B. $(0, 1)$ C. $(-1, -2)$ D. $(1, 2)$
10	If a circle and a line intersect in two points, then the line is called:	A. A chord B. A secant C. A diameter D. None of these
11	The vertex of the parabola $x^2 = 4ay$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(0, 0)$
12	The point of a parabola which is closest to the focus is the:	A. Directrix B. Vertex C. Focus D. Chord
13	The conic is a parabola, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
14	In equation of circle, coefficient of each x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
15	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

16	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
17	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. a B. $4a$ C. $2a$ D. None of these
18	A chord passing through the focus of a parabola is called a _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
19	The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
20	The opening of the parabola $y^2 = -4ax$ is to the left of the:	A. x-axis B. $x = 1$ C. y-axis D. $x = 0$
