FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	In the case of rotation of axes which formula is true:	
2	Point of intersection of lines x - 2y + 1 = 0 and 2x - y + 2 = 0 equals:	A. (1, 0) B. (0, 1) C. (-1, 0) D. (0, -1)
3	The axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = -a C. y = 0 D. y = -a
4	Question Image	A. sec x tan x B. sec²x C. -sec x tan x D. -sec²x
5	The centroid of a triangle is a point that divides each median in the ratio:	A. 2 : 1 B. 2 : 3 C. 1 : 3 D. 4 : 3
6	The fixed point of the conic is called:	A. Directrix B. Vertex C. Focus D. None of these
7	Let $f(x) = x^3 + \sin x$, then f(x) is:	A. Even function B. Odd function C. Power function D. None of these
8	Question Image	
9	The axis of the parabola $x^2 = -4ay$ is:	A. x = a B. x = 0 C. y = a D. y = 0
10	Question Image	A. x = a B. for all x D. x = 0
11	Question Image	A. a B. 2b C. b D. 2a
12	x = 4 is the solution of inequality:	A. x + 3 > 0 B. x - 3 < 0 C. -2x + 3 > 0 D. x + 3 < 0
13	Parametric equations x = a cos t, y = a sin t represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
14	Area between x-axis and the curve:	A. 32 D. 16
15	Question Image	A. x - axis B. z - axis C. y - axis D. None of these
16	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
17	Question Image	B. 0
		A. Normal

18	Perpendicular dropped from the center of a circle on a chord _____ the chord:	B. Bisects C. Equal to D. None of these
19	The opening of the parabola $x^2 = 16y$ is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
20	ax + by + c = 0, will represent equation of straight line parallel y-axis if:	A. a = 0 B. b = 0 C. c = 0 D. a = 0, c = 0