FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	Question Image	A. sin x B. cos x C. -sin x D. -cos x
2	Point of intersection of x + y = 5 & x - y = 3 is:	A. (5, 5) B. (4, 2) C. (4, 1) D. (1, 4)
3	Question Image	A. 1 B. 2 C. 3 D. 0
4	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. Positive B. Positive or negative C. Negative D. Positive and negative
5	Zero vector is perpendicular to:	A. Every vector B. Unit vector only C. Position vector only D. Not any vector
6	Question Image	A. Integration by parts B. Definite integral C. Differentiation D. None of these
7	Question Image	A. Volume of the tetrahedron B. Volume of the parallelepiped C. Volume of the triangle D. None of these
8	If the cutting plane is slightly tillted and cuts only one nappe of the cone, then the section is a / an:	A. Ellipse B. Circular cone C. Circle D. Point circle
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. x² = 4ay B. -x²= 4ay C. -y²= 4ax D. y²= 4ax
10	The axis of the parabola x^2 = 4ay is:	A. x = 0 B. x = -a C. y = 0 D. y = -a
11	Question Image	A. 4 B. 2 C. 1
12	The equation to the straight line which passes through the point (2, 9) and makes an angle of 45° with x-axis is:	A. x + y + 7 = 0 B. x - y + 7 = 0 C. y - x + 7 = 0 D. None of these
13	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
14	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
15	Question Image	
		A. Normal

16	Perpendicular dropped from the center of a circle on a chord _____ the chord:	B. Bisects C. Equal to D. None of these
17	The graph of linear equation of the form ax + by = c is a line, which divides the plane into _____ disjoint regions, where a, b and c are constants and a, b are not both zero.	A. One B. Two C. Thre D. None of these
18	Question Image	A. ln |sec x + tan x | + c B. ln |cosec x - cot x | + c C. ln |sec x - tan x | + c D. ln |cosec x + cot x | + c
19	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
20	A linear equation in two variables represents:	A. Circle B. Ellipse C. Hyberbola D. Straight line