FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
2	The symbol | | is used for:	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
3	The non-negative inequalities are called:	A. Parameters B. Constants C. Decision variables D. Vertices
4	The term function was introduced by:	A. Euler B. Newton C. Lagrange D. Leibniz
5	If y is an image of x under the function f, we denote it by:	A. x = f(y) B. x = y C. y = f(x) D. f(x, y) = c
6	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
7	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
8	Inverse hyperbolic functions are expressed in terms of natural:	A. Numbers B. Exponential C. Logarithms D. Sines
9	The distance between two points P_1 (x_1, y_1) and P_2 (x_2, y_2) on the co-ordinate plane is given by:	
10	Let $f(x) = x^2$, real valued function then domain of f is the set of all:	A. Real numbers B. Integers C. Positive numbers D. Natural numbers
11	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
12	If the inclination of the line l lies between]0°, 90°[, then the slope of l is:	A. Positive B. Negative C. Undefined D. None of these
13	The focus of the parabola $y^2=-4ax$ is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
14	For any point (x, y) on x-axis:	A. y = 1 B. y = 0 C. y = -1 D. y = 2
15	The set of all points in the plane that are equally distant from a fixed point is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
		A. (-3, 9)

16	If in the case of translation of axes, O (-3, 2), (x, y) = (-6, 9) then (X, Y) =	B. (-3, 7) C. (-9, 11) D. (3, 7)
17	The instantaneous rate of change of y with respect to x is given by:	
18	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
19	The ratio in which the line segments joining (2, 3) and (4, 1) is divided by the line joining (1, 3) and (4, 3) is:	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 1
20	The pair of lines of homogeneous second-degree equation $ax^2 + 2hxy + by^2 = 0$ are real and coincident, if:	A. h² < ab B. h²> ab C. h²= ab D. None of these