FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	The line l is horizontal if and only if slope is equal to:	A. 0 B. 1 C. 2 D. undefined
2	A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is:	A. 4 cm B. 3cm C. 2.5cm D. 3.4cm
3	Inclination of X-axis or of any line parallel to X-axis is:	A. Zero D. Undefined
4	y - ordinate of the centroid of triangle with vertices A(-2, 3) B(-4, 1), C(3, 2) is:	A. 3 B. 1 C. 2 D. 0
5	The general solution of differential equation of order n contains n arbitrary constants, which can be determined by ---------- initial value conditions.	A. 1 B. 0 C. 2 D. n
6	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
7	Question Image	A. x = a B. x = 2 C. x = 0 D. None
8	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
9	If the directed distances AP and PB have same signs, then their ratio is positive and P is said to divide AB:	A. Internally B. May be divide C. Externally D. None of these
10	Length of tangent from (0,1) to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
11	The distance of any point P (x, y) from the origin O(0 , 0) is given by:	
12	The line x = a is on the right of y - axis if:	A. a > 0 B. a < 0 C. a = 0
13	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
14	Question Image	A. 0 B. 2 C. 3 D. 1
15	The condition for the line y = mx + c to be a tangent to the circle $x^2 + y^2 = a^2$ is c = _____:	
16	If (2, 1) is the mid point of the line segment joining the points (2, x) & (2, -5) then x =	A. 1 B. 2 C. 7 D. -7
17	Question Image	A. sinh x B. cosh x C. -sinh x

		D. -cosh x
18	The equation of a straight line which parallel to the line 3x - 2y + 5 = 0 and passes through (2, -1) is:	A. 3x + 2y - 8 = 0 B. 3x - 2y + 8 = 0 C. 3x - 2y - 8 = 0 D. 3x + 2y + 8 = 0
19	The centroid of the triangle whose vertices are (3, -5), (-7, 4) and (10, -2) is:	A. (-2, -2) B. (-2, 2) C. (2, -1) D. (0, 0)
20	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0