FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	A function, in which the variable appears as exponent (power), is called a / an -------- function.	A. Constant B. Explicit C. Exponential D. Inverse
2	Question Image	A. Constant B. Implicit C. Identity D. Inverse
3	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. Integration C. Differential D. None of these
4	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
5	The cross product or vector product of two vectors is defined:	A. Only in plane B. Only in space C. Both a and b D. None of these
6	The focus of the parabola $y^2=4ax$ is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
7	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
8	The vertex of the parabola $x^2 = -4ay$ is:	A. (a, 0) B. (0, 0) C. (0, -a) D. (0, a)
9	The distance of any point P (x, y) from the origin O(0 , 0) is given by:	
10	Question Image	A. Open B. Closed C. Open as well as closed D. None of these
11	The point of intersection of the altitudes of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
12	If a straight line is perpendicular to y-axis, then its slope is:	A. 1 B. -1 C. 0 D. undefined
13	Question Image	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
14	Non-vertical lines divide the plane into_____half plane:	A. Upper and lower B. Many C. Left and Right D. None of these
15	Question Image	A. Parallel lines B. Non-parallel lines C. Perpendicular lines D. Coplanar lines
16	A pair of lines of homogeneous second degree equation $ax^2 + 2hxy + by^2 = 0$ are othogonal, if:	A. a - b = 0 B. a + b = 0 C. a + b > 0

		D. a - b < 0
17	Question Image	A. x = 0 B. y = -a C. y = 0 D. y = -a
18	If the equation of the parabola is $y^2 = - 4ax$, then opening of the parabola is to the _____ of the y-axis:	A. Left B. Upward C. Right D. Downward
19	ax + by + c = 0 has matrix from as:	B. |ax + by| = |-c| C. [ax + by] = [c] D. [ax - by] = [-c]
20	Let f(x) = cos x, then f(x) is an:	A. Even function B. Odd function C. Power function D. None of these