

## FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Circle B. Parabola C. Hyperbola D. Ellipse
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sec x \tan x$ B. $-\sec^2 x$ C. $-\sec x \tan x$ D. $\sec^2 x$
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $f(x)$ B. $\ln  f(x) $ C. $f'(x)$ D. $\ln  f'(x) $
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. 2
5	The distance between the points (1, 2), (2, 1).	A. 1 D. 2
6	A function, in which the variable appears as exponent (power), is called a / an ----- function.	A. Constant B. Explicit C. Exponential D. Inverse
7	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. $3x + 2y + 8 = 0$
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	The directrix of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
10	The center of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. $(-g, -f)$ B. $(-f, -g)$ C. $(0, 0)$ D. $(g, f)$
11	Parametric equations $x = a \cos t$ , $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
12	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
13	The feasible solution, which maximizes or minimizes the objective function, is called the _____:	A. Maximum solution B. Optimal solution C. Minimum solutions D. None of these
14	A function $P(x) = 6x^4 + 7x^3 + 5x + 1$ is called a polynomial function of degree ----- with leading coefficient -----.	A. 4, 6 B. 2, 7 C. 2, 3 D. 2, 5
15	$f(x) = \sin x + \cos x$ is ----- function:	A. Even B. Odd C. Composite D. Neither even nor odd function
16	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

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17	If any two vectors of scalar triple product are equal, then its value is equal to:	A. 0 B. 1 C. -1 D. 2
18	Question Image <input type="text"/>	A. Lagrange B. Newtown C. Leibniz D. Cauchy
19	The term $dy$ (or $df$ ) = $f'(x) dx$ is called the _____ of the dependent variable $y$ .	A. Differentiation B. Integration C. Differential D. None of these
20	$-4 < y < 4$ is the solution of the following:	A. $y = 5$ B. $y = 3$ C. $y = -4$ D. $y = 4$

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