

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If in the case of translation of axes, O (-3, 2), $(x, y) = (-6, 9)$ then $(X, Y) =$	A. (-3, 9) B. (-3, 7) C. (-9, 11) D. (3, 7)
2	$\cosh^2 x + \sinh^2 x =$	A. Cosh x <sup>2</sup> B. Cosh 2x C. Sinh 2x D. Tanh 2x
3	Question Image	
4	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
5	The coordinate axes divide the plane into equal parts:	A. 1 B. 2 C. 3 D. 4
6	Infinite number of lines can pass through:	A. One point B. Two points C. Three points D. Four points
7	Question Image	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
8	ax + b > c is an inequality of:	A. One variable B. Three variable C. Two variable D. Four variable
9	Question Image	A. In  sec x + tan x   + c  B. In  cosec x - cot x   + c  C. In  sec x - tan x   + c  D. In  cosec x + cot x   + c
10	If a function f is from a set X to a set Y, then set X is called the of f:	A. Domain B. Range C. Co-domain D. None of these
11	If 2 and 2 are x and y-components of a vector, then its angle with x-axis is:	A. 30° B. 45° C. 60° D. 90°
12	Question Image	A. 0 B. 2 C. 1 D1
13	The directrix of the parabola $x^2 = -4$ ay is:	A. x = a B. x = -a C. y = a D. y = -a
14	Question Image	A. 4a B. 2a C. 4b D. 2b
15	A parallelogram is a rhombus if and only if its diagonals are:	A. Parallel B. Perpendicular C. Equal D. None of these
16	Question Image	
		A. Centroid

17	The point of intersection of the perpendicular bisectors of a triangle is called:	B. Ortho-center C. Circums-center D. In-center
18	Notation Df(x) for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
19	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
20	For any point (x, y) and y - axis:	A. y = 0 B. y = -1 C. y = 1 D. x = 0