

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. -1 D. 2
2	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
3	Distance of the point (-2, 3) from y-axis is:	A. -2 B. 2 C. 3 D. 1
4	Question Image	A. Parallel lines B. Non-parallel lines C. Perpendicular lines D. Coplanar lines
5	The equation to the straight line which passes through the point (2, 9) and makes an angle of $45^\circ$ with x-axis is:	A. $x + y + 7 = 0$ B. $x - y + 7 = 0$ C. $y - x + 7 = 0$ D. None of these
6	$\cosh^{-1}x =$	
7	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
8	An angle in a semi-circle is:	A. $0^\circ$ B. $90^\circ$ C. $180^\circ$ D. $60^\circ$
9	The ratio between the measure of the radial segment and the diameter of a circle is:	A. 2 : 1 B. 4 : 3 C. 1 : 2
10	Question Image	A. At B. Not on C. On D. None of these
11	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
12	Parametric equations $x = a \cos t$ , $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
13	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
14	$y = b$ is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis D. None of these
15	The ordered pair _____ is a solution of the inequality $x + 2y < 6$ .	A. (3, 3) B. (1, 1) C. (4, 4) D. (5, 5)
16	Question Image	A. Unit Vector B. Null vector C. Position vector D. None of these

- 17 y-coordinate of any point on X-axis: B. x  
C. y  
D. 1
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- 18 Joint equation of  $y + 2x = 0$ ,  $y - 3x = 0$  is: A.  $(y+2x)(y-3x) = 0$   
B.  $(y-2x)(y-3x) = 0$   
C.  $(y+2x)(y+3x) = 0$   
D.  $(y-2x)(y+3x) = 0$
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- 19 For a square of side  $x$  units, the rate of change of area with respect to the side is given by: A.  $x$   
B.  $x^2$   
C.  $2x$   
D. 2
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- 20 Inclination of X-axis or of any line parallel to X-axis is: A. Zero  
D. Undefined
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