

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Two arcs of two different circles are congruent if:	A. The circles are congruent B. The corresponding central angles are congruent C. Both a and b D. None of the above
2	$y = b$ is a horizontal line parallel to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
3	Question Image	A. $\tan x$ B. $\cot x$ C. $-\tan x$ D. $-\cot x$
4	Question Image	A. 0 B. 1 C. -1 D. 2
5	Question Image	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $\cot x + c$ D. $-\cot x + c$
6	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
7	The directrix of the parabola $x^2 = 4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
8	The symbol $\parallel$ is used for:	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
9	Question Image	A. Ellipse B. Parabola C. Hyperbola D. Circle
10	Question Image	A. 0 B. 1 C. -1 D. 2
11	If the equation of the parabola is $x^2 = 4ay$ , then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
12	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
13	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
14	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a / an:	A. Parabola B. Circular cone C. Ellipse D. Circle
15	Two imaginary tangents can be drawn to a circle from any point $P(x_1, y_1)$ _____ the circle:	A. Inside B. On C. Outside

		D. None of these
16	Question Image <input type="text"/>	A. Position vector of O B. Position vector of P C. Unit vector D. Null vector
17	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. $a - b < 0$
18	The focus of the parabola $y^2=4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
19	The ratio in which the line segments joining $(2, 3)$ and $(4, 1)$ is divided by the line joining $(1, 3)$ and $(4, 3)$ is:	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 1
20	The vertex of parabola $(x - 1)^2 = 8 (y + 2)$ is:	A. $(1, -2)$ B. $(0, 1)$ C. $(-1, -2)$ D. $(1, 2)$