

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The directrix of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
2	The directrix of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
3	<a href="#">Question Image</a>	A. Position vector B. Null vector C. Unit vector D. None of these
4	<a href="#">Question Image</a>	A. Constant B. Implicit C. Explicit D. Inverse
5	<a href="#">Question Image</a>	
6	If $r$ is the radius of any circle and $C$ its center, then any point $P(x_1, y_1)$ lies outside the circle only if:	A. $ CP  \leq r$ B. $ CP  = r$ C. $ CP  > r$ D. None of these
7	A line segment having both the end-points on a circle and not passing through the center is called a:	A. A chord B. A secant C. A diameter D. None of these
8	$ax + b < c$ is a inequality of:	A. One variable B. Two variable C. Three variable D. Four variable
9	<a href="#">Question Image</a>	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
10	The centroid of a triangle is a point that divides each median in the ratio:	A. 2 : 1 B. 2 : 3 C. 1 : 3 D. 4 : 3
11	<a href="#">Question Image</a>	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \operatorname{cosec} x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \operatorname{cosec} x + \cot x  + c$
12	If 2 and 2 are $x$ and $y$ -components of a vector, then its angle with $x$ -axis is:	A. $30^\circ$ B. $45^\circ$ C. $60^\circ$ D. $90^\circ$
13	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
14	<a href="#">Question Image</a>	A. 1 B. 2 C. 3 D. 0
15	Point $p(-5, 6)$ lies ..... the circle $x^2 + y^2 + 4x - 6y - 12 = 0$	A. Outside B. Inside C. On D. None of these
16	$x = c$ is a vertical line parallel to _____.	A. $x$ -axis B. $y$ -axis may be C. $y$ -axis D. None of these

17	Question Image	
18	$ax + by + c = 0$ has matrix form as:	B. $ ax + by  =  -c $ C. $[ax + by] = [c]$ D. $[ax - by] = [-c]$
19	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
20	Question Image	B. 0