ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
2	Question Image	A. Lagrange B. Newtown C. Leibniz D. Cauchy
3	An integral of $3x^2$ is:	A. x³+c B. 3 C. 6x D. x^{2+c}
4	The inequality y > b is the open half plane to the _____ of the boundary line y = b:	A. Above B. Left C. Below D. Right
5	If a variable y depends on a variable x in such a way that each value of x determines exactly one value of y, then y is a _____ of x.	A. Independent variable B. Not function C. Function D. None of these
6	Question Image	A. Unit vector B. Null vector C. Position vector D. None of these
7	Question Image	A. 1 B. 2 C. 3 D. 0
8	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
9	Question Image	A. x with respect to y B. y with respect to y C. y with respect to x D. x with respect to x
10	Question Image	A. sech x tanh x B. -sech²x C. -sech x tanh x D. sech²x
11	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
12	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
13	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
14	A quadrilateral having two parallels and two non-parallel sides is called:	A. Trapezium B. Rectangle C. Rhombus D. None of these
15	Let f(x) = cos x, then f(x) is an:	A. Even function B. Odd function C. Power function D. None of these
16	y = b is a horizontal line parallel to _____:	A. x - axis B. x - axis may be C. y - axis

		D. None of these
17	The symbol y = f(x) i.e. y is equal to f of x, invented by Swiss mathematician----------:	A. Euler B. Cauchy C. Leibniz D. Newton
18	The directrix of the parabola $x^2 = -4ay$ is:	A. x = a B. x = -a C. y = a D. y = -a
19	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. y = x C. y-axis D. None of these
20	ax + b < c is a inequality of:	A. One variable B. Two variable C. Three variable D. Four variable