ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
2	Notation Df(x) for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
3	If (x, y) are the coordinates of a point, then the first component of the ordered pair is called:	A. Abscissa B. Ordinate C. Coordinate axes D. None of these
4	ax + by + c = 0 has matrix from as:	B. $|ax + by| = |-c|$ C. $[ax + by] = [c]$ D. $[ax - by] = [-c]$
5	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
6	The operation _____ by a positive constant to each side of inequality will affect the order (or sense) of inequality:	A. Adding B. Subtracting C. Multiplying D. None of these
7	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. $|CP| < r$ B. $|CP| = r$ C. $|CP| > r$ D. None of these
8	Area between x-axis and the curve:	A. 32 D. 16
9	The horizontal line x' ox is called:	A. x-axis B. y-axis C. abscissa D. ordinate
10	Question Image	A. 36 B. 42 C. 48 D. 12
11	$i.(j.k) =$	A. Meaningless B. -1 C. 1 D. 2
12	The ordered pair _____ is a solution of the inequality x + 2y < 6.	A. (3, 3) B. (1, 1) C. (4, 4) D. (5, 5)
13	Let f(x) = cos x, then f(x) is an:	A. Even function B. Odd function C. Power function D. None of these
14	Question Image	A. 2cosh x B. 2sinh x C. 2sinh (2x) D. -2sinh (2x)
15	If equation of circle is $(x - h)^2 + (y - k)^2 = r^2$, then center of a circle:	A. (-h, -k) B. (h, k) C. (-h, k) D. (h, -k)

16	Which one is an exponential function ?	
17	Question Image	A. sech x tanh x B. $-\text{sech}^2 x$ C. -sech x tanh x D. $\text{sech}^2 x$
18	For any point (x, y) on x-axis:	A. y = 1 B. y = 0 C. y = -1 D. y = 2
19	y-coordinate of any point on X-axis:	A. 0 B. x C. y D. 1
20	A region, which is restricted to the _____ quadrant, is referred to as a feasible region for the set of given contraints.	A. First B. Third C. Second D. Fourth