ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The point of intersection of the medians of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
2	The perpendicular distance of the line 3x + 4y + 10 = 0 from the origin is:	A. 0 B. 1 C. 2 D. 3
3	Question Image	
4	Question Image	A. Common logarithmic B. Natural logarthmic C. Exponential D. None of these
5	The equation to the straight line which passes through the point (2, 9) and makes an angle of 45° with x-axis is:	A. x + y + 7 = 0 B. x - y + 7 = 0 C. y - x + 7 = 0 D. None of these
6	The focus of the parabola $y^2=-4ax$ is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
7	Question Image	A. cot x B. - cot x C. cosec x cot x D. -cosec x cot x
8	Question Image	A. Scalar quantity D. Reciprocal vector
9	f (x) = x secx, then f(0)=	A. -1 B. 0 C. 1
10	The directrix of the parabola $x^2 = 4ay$ is:	A. x = a B. x = -a C. y = a D. y = -a
11	Question Image	A. f(x² + 1) B. f(x) D. f(x²)
12	Angle between the lines x + y + 1 = 0 & x - y + 4 = 0 is:	A. 30° B. 45° C. 60° D. 90°
13	The point of a parabola which is closest to the focus in the:	A. Directrix B. Vertex C. Focus D. Chord
14	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)
15	For different values of k, the equation 4x + 5y = k represents lines _____ to the line 4x + 5y = 0.	A. Perpendicular B. Parallel C. Equal D. None of these
16	Let $f(x) = x^2 + 3$, then domain of f is:	A. Set of all integers B. Set of natural numbers C. Set of real numbers D. Set of rational numbers
		A. Directrix

17	the focal chord perpendicular to the axis of the parabola is called _____ of the parabola:	B. Latus rectum C. Focus D. Focal chord
18	If the inclination of a line lies between]90°, 180°[, then the slope of line is :	A. Positive B. Negative C. Zero D. undefined
19	Question Image	A. Line parallel to x - axis B. Line parallel to y - axis C. Inclined D. Both (a) and (b)
20	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. a B. 4a C. 2a D. None of these