ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	General form of equation of line is:	A. ax - by + c = 0 B. ax + by - c = 0 C. ax + by + c = 0 D. ax - by - c = 0
2	Question Image	
3	Equation of axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = a C. y = 0 D. y = a
4	The vertex of the parabola $x^2 = -4ay$ is:	A. (a, 0) B. (0, 0) C. (0, -a) D. (0, a)
5	The point of intersection of internal bisectors of the angles of a triangle is called:	A. Centroid B. Ortho-centers C. Circums-center D. In-center
6	If the inclination of a line lies between]90°, 180°[, then the slope of line is :	A. Positive B. Negative C. Zero D. undefined
7	Question Image	A. Circle B. Parabola C. Hyperbola D. Ellipse
8	Question Image	B. 0
9	Question Image	D. 2
10	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
11	Length of tangent from (0,1) to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
12	Question Image	A. 4 B. Does not exist
13	Question Image	A. Above B. Left C. Below D. Right
14	The axis of the parabola $y^2 = 4ax$ is:	A. x = 0 B. x = a C. y = 0 D. y = a
15	If (2, 1) is the mid point of the line segment joining the points (2, x) & (2, -5) then x =	A. 1 B. 2 C. 7 D. -7
16	The vertex of parabola $(x - 1)^2 = 8 (y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
17	Two real and distinct 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

18	There are _____ feasible solutions in the feasible region:	A. Finitely B. Two C. Infinitely many D. Three
19	Question Image	A. Undefined B. 3a² C. a² D. 0
20	Question Image	