ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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
2	Question Image	A. [0] B. [0, 0] C. [0, 0, 0] D. None of these
3	The opening of the parabola y^2 = -4ax is to the left of the:	A. x-axis B. x = 1 C. y-axis D. x = 0
4	Question Image	A. 0 B. 1 C. -1 D. 2
5	The line y = a is below the x-axis, if:	A. a > 0 B. a < 0 C. a = 0
6	If the line segment obtained by joining any two points of a region lies entirely within the region, then the region is called _____ :	A. Maximum B. Vertex C. Minimum D. Convex
7	The symbol | | is used for:	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
8	x = c is a line:	A. Perpendicular to x-axis B. Parallel to x-axis C. Perpendicular to y-axis D. None of these
9	If r is the radius of the circle and its center is at origin, then equation of circle is:	A. $x^2 + y^2 = a^2$ B. $x^2 + y^2 = r^2$ C. $x^2 - y^2 = a^2$ D. $x^2 - y^2 = r^2$
10	Question Image	A. 0 B. 1 C. -1 D. 2
11	Non-vertical lines divide the plane into_____half plane:	A. Upper and lower B. Many C. Left and Right D. None of these
12	X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:	A. -1 B. 1 C. 3 D. -3
13	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
14	Question Image	A. cos x + c B. - cos x + c C. sin x + c D. -sin x + c
		A. Centroid

15	The point of intersection of the altitudes of a triangle is called:	B. Ortho-center C. Circums-center D. In-center
16	Gottfried Whilhelm Leibniz was a (an) ----- mathematician:	A. German B. English C. Swiss D. French
17	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
18	Two imaginary 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
19	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
20	The equation of a straight line which parallel to the line $3x - 2y + 5 = 0$ and passes through $(2, -1)$ is:	A. $3x + 2y - 8 = 0$ B. $3x - 2y + 8 = 0$ C. $3x - 2y - 8 = 0$ D. $3x + 2y + 8 = 0$