

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	
2	A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a:	A. Secant B. Diameter C. Chord D. Tangent
3	The graph of linear equation of the form $ax + by = c$ is a line, which divides the plane into _____ disjoint regions, where a, b and c are constants and a, b are not both zero.	A. One B. Two C. Three D. None of these
4	The axis of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
5	A function, in which the variable appears as exponent (power), is called a / an ----- function.	A. Constant B. Explicit C. Exponential D. Inverse
6	$y = b$ is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis 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 on the circle only if:	A. $ CP \leq r$ B. $ CP \geq r$ C. $ CP = r$ D. None of these
8	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
9	Which one is a constant function ?	A. $f(x) = x^2$ B. $f(x) = x$ C. $f(x) = x + 1$ D. $f(x) = 14$
10	Question Image	A. 0 B. 2 C. 1 D. 3
11	The vertex of the parabola $x^2 = -4ay$ is:	A. (a, 0) B. (0, 0) C. (0, -a) D. (0, a)
12	Length of tangent from (a, 0) to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	B. c C. $2g + 2f - c$ D. None
13	Question Image	A. domain B. range C. lower limit D. upper limit
14	General form of equation of line is:	A. $ax - by + c = 0$ B. $ax + by - c = 0$ C. $ax + by + c = 0$ D. $ax - by - c = 0$
15	$\text{Cosh}^2 x + \text{Sinh}^2 x =$	A. $\text{Cosh } x^2$ B. $\text{Cosh } 2x$ C. $\text{Sinh } 2x$ D. $\text{Tanh } 2x$
16	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
17	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
18	The region of the graph $ax + by > c$ is called _____ half plane:	A. Open B. Boundary of C. Closed D. None of these
19	A chord passing through the focus of a parabola is called a _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
20	$y^2 = 4ax$, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these