ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If a = 0, then the line ax + by + c = 0 is parallel to:	A. y - axis B. x - axis C. along y - axis D. None of these
2	Question Image	A. [0] B. [0, 0] C. [0, 0, 0] D. None of these
3	The term dy (or df) = f '(x) dx is called the _____ of the dependent variable y.	A. Differentiation B. Integration C. Differential D. None of these
4	X-coordinate of any point on Y-axis:	A. 0 B. x C. y D. 1
5	Question Image	A. Integration B. Integration w.r.t.x. C. Differentiation D. Differentiation w.r.t.x
6	A function $P(x) = 6x^4 + 7x^3 + 5x + 1$ is called a polynomial function of degree -------- with leading coefficient -------.	A. 4, 6 B. 2, 7 C. 2, 3 D. 2, 5
7	Question Image	A. sin x B. -cos x C. -sin x D. cos x
8	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
9	The inequality x < a is the open half plane to the _____ of the boundary line x = a:	A. Above B. Left C. Below D. Right
10	Question Image	A. 0 B. 2 C. 3 D. 1
11	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| < r B. |CP| > r C. |CP| = r D. None of these
12	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined
13	If the lien l is parallel to y-axis, then the slope of l is ----------------.	A. 0 B. 1 C. -1 D. undefined
14	If s is the distance traveled by a body at time t, the velocity is given by the expression:	
15	The general solution of differential equation of order n contains n arbitrary constants, which can be determined by ------------ initial value conditions.	A. 1 B. 0 C. 2 D. n
16	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

17	Question Image	
18	Sir Isaac Newton was a(an) --------- mathematician.	A. German B. French C. Swiss D. English
19	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. Integration C. Differential D. None of these
20	A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is:	A. 4 cm B. 3cm C. 2.5cm D. 3.4cm