ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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
2	Question Image	A. Integration by parts B. Definite integral C. Differentiation D. None of these
3	Question Image	A. Constant B. Implicit C. Identity D. Inverse
4	Point of intersection of x + y = 5 & x - y = 3 is:	A. (5, 5) B. (4, 2) C. (4, 1) D. (1, 4)
5	If s is the distance traveled by a body at time t, the velocity is given by the expression:	
6	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
7	The symbol | | is used for:	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
8	If the graph of f is entirely below the x-axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative
9	Question Image	A. 0 B. 1 C. 2 D. 4
10	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
11	Question Image	A. 0 B. 2 C. 3 D. 1
12	Equation of axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = a C. y = 0 D. y = a
13	If the cutting plane is slightly tillted and cuts only one nappe of the cone, then the section is a / an:	A. Ellipse B. Circular cone C. Circle D. Point circle
14	Question Image	A. e^{ax} B. f(x) C. e^{ax}f(x) D. e^{ax + f(x)}
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	X-coordinate of any point on Y-axis:	A. 0 B. x C. y

		D. 1
17	The order (or sense) of an inequality is changed by _____, it each side by a negative constant.	A. Adding B. Subtracting C. Dividing D. None of these
18	The cross product or vector product of two vectors is defined:	A. Only in plane B. Only in space C. Both a and b D. None of these
19	The axis of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
20	Question Image	A. $\ln \lvert \sec x + \tan x \rvert + c$ B. $\ln \lvert \text{cosec } x - \cot x \rvert + c$ C. $\ln \lvert \sec x - \tan x \rvert + c$ D. $\ln \lvert \text{cosec } x + \cot x \rvert + c$