ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. sech x tanh x B. -sech x tanhx C. sech² x D. -sech²x
2	The focus of the parabola $x^2 = 4ay$:	A. (0, a) B. (-a , 0) C. (0, -a) D. (a, 0)
3	Question Image	
4	The axis of the parabola $x^2 = -4ay$ is:	A. x = a B. x = 0 C. y = a D. y = 0
5	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
6	An angle in a semi-circle is:	A. 0° B. 90° C. 180° D. 60°
7	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
8	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0
9	$Cosh^2 x + Sinh^2 x =$	A. Cosh x² B. Cosh 2x C. Sinh 2x D. Tanh 2x
10	X-coordinate of any point on Y-axis:	A. 0 B. x C. y D. 1
11	A function, in which the variable appears as exponent (power), is called a / an -------- function.	A. Constant B. Explicit C. Exponential D. Inverse
12	Question Image	A. x = a B. x = 2 C. x = 0 D. None
13	The range of the function f(x) = |x|	
14	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
15	x = 2 is a vertical line perpendicular to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
16	Distance of the point (-2, 3) from y-axis is:	A. -2 B. 2 C. 3 D. 1

17	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
18	If a straight line is perpendicular to y-axis, then its slope is:	A. 1 B. -1 C. 0 D. undefined
19	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then dy = _____	A. 0.1204 B. .12 C. .02 D. 1.2
20	If the inclination of a line lies between]90°, 180°[, then the slope of line is :	A. Positive B. Negative C. Zero D. undefined