ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If the equation of the parabola is y2 = 4ax, then opening of the parabola is to the right of the:	A. x-axis B. y = x C. y-axis D. x + y =0
2	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0
3	If y = sin x then dy =	A. cosy dx B. cos x C. cosx dx D. cos xdy
4	Joint equation of y + 2x = 0, y - 3x = 0 is:	A. (y+2x)(y-3x) = 0 B. (y-2x)(y-3x) = 0 C. (y+2x)(y+3x) = 0 D. (y-2x)(y+3x) = 0
5	Question Image	A. 0
6	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
7	Question Image	A. sech x tanh x B. -sech²x C. -sech x tanh x D. sech²x
8	Question Image	A. Unit Vector B. Null vector C. Position vector D. None of these
9	Question Image	A. 0 B. -1 C. 1 D. 2
10	The radius of point circle is:	A. 0 B. (0, 0) C. r D. 1
11	A quadrilateral having two parallels and two non-parallel sides is called:	A. Trapezium B. Rectangle C. Rhombus D. None of these
12	Question Image	A. 1 B. 2 C. 3 D. 4
13	The perpendicular distance of the line 3x + 4y + 10 = 0 from the origin is:	A. 0 B. 1 C. 2 D. 3
14	The function $f(x) = 3x^2$ has minimum value at :	A. x = 3 B. x = 2 C. x = 1 D. x = 0
15	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then dy = _____	A. 0.1204 B. .12 C. .02 D. 1.2
16	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
17	Area between x-axis and the curve:	A. 32 D. 16
18	Question Image	A. e^{-x} sin x + c B. -e^{-x} sin x + c C. e^{-x}cosx + c D. -e^{-x}sin x + c
19	Question Image	
20	The focus of the parabola x2=-4ay is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)