ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	x = secθ,y = tanθ are the parametric equations of	A. Circle B. Hyperbola C. Ellipse D. parabola
2	If $3x^{2-6} - 9^{x+1} = 0$ then the valid values of are.	A. (4,2) B. (2,1) C. (0,1) D. (3,-3)
3	Question Image	A. 1/x B. -x C. 2x D. 0.5 x
4	Question Image	
5	If A ⊆ B then A ∪ B is	A. A B. B C. A' D. A ∩B
6	1st four terms of the expansion $(1-x)^{-2}$are	A. 1 + 2x + 3x²+ 4x³ B. 3x²+ 2x + 1 C. 1 + 3x + 4x²+ 5x³ D. None of these
7	Associative law of multiplication	A. ab - ba B. a(bc) = (ab) c C. a(b + c) = ab +ac D. (a +b)c = ac + bc
8	A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45°. The height of the chimney is	
9	If the number of elements in set A is n, and in set B is m, then the number of elements in AxB will	A. n^m B. mⁿ C. m x n D. m + n
10	Question Image	
11	Axes remain parallel to the old axes, in:	A. Translating of axes B. rotation of axes C. Translation and rotation of axes D. None of these
12	Domain of tangent function is	
13	The value of 2π/3 in degree is	A. 120^o B. 160^o C. 150^o D. 60^o
14	If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is	A. 12 B. 6 C. 3 D. 0
15	n different objects can be arranged taken all at a time in _____	A. (n + 1)! ways B. (n - 1)! ways C. n! ways D. n ways
16	Question Image	A. 2 x 2 B. 2 x 3 C. 3 x 2 D. 3 x 3
17	Question Image	
18	Question Image	A. 0

18	Question image	B. -1-w²
19	For graphing a linear inequality, solid line is drawn if the inequality involves the symbols:	A. > or < B. <u>></u> or <u><</u> C. = or≠ D. = or >
20	√11 is	A. an irrational number B. Rational number C. odd number D. Negative number