ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If the roots of $ax^2 + bx + c = 0$ $(a > 0)$ be greater than unity, then	A. a + b + c = 0 B. a + b + c > 0 C. a + b + c < 0 D. None of these
2	If $y = 1/x^2$ then dy/dx equals:	A. -2x B. x⁻³ C. -2/x³ D. -2x³
3	A function in which the variable appears as exponent is called:	A. An identity function B. A logarithmic function C. an exponential function D. A rational function
4	Question Image	
5	Question Image	A. z is purely imaginary B. a is any complex number C. z is real D. None of these
6	Question Image	A. 36 B. 360 C. 24 D. 6
7	Question Image	
8	Domain of y = cot x = _____	
9	The domain of the principal tan function is	
10	All men are mortal, We are men, there fore, we are also mortal. This is a useful example of	A. Deduction B. Induction C. Conjuction D. disjunction
11	If the sum of even coefficients in the expansion of (1+x)n is 128 then	A. n=7 B. n=9 C. n=8 D. None
12	Question Image	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplication identity
13	The range of the principle cos function is	
14	For f(x) = x2, what is the value of f(a) +f (-a) in terms of a?	A. 3a2 B. 2a2 C. 2a D. -7a
15	The sum of even coefficient in the binomial expansion is	A. 2ⁿ⁺¹ B. 2ⁿ C. 2ⁿ⁻¹ D. 2n
16	The solution set of the equation $\tan^{-1}x - \cot^{-1}x = \cos^{-1}(2 - x)$ is	A. [0, 1] B. [-1, 1] C. [1, 3] D. None of these
17	For trival solution |A| is	A. A B. |A| = 0 C. A = 0 D. |A|≠ 0
18	Question Image	
19	The transport of a null matrix is	A. Row matrix B. Column matrix

19	The transport of a null matrix is	C. Square matrix D. Null matrix
20	Question Image	