

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	$\forall z \in C$, multipliucative is	A. (1,1) B. (1,0) C. (0,1) D. None of these
2	The A.M. of two numbers is 34 and G.M. is 16, the numbers are	A. 2 and 64 B. 64 and 3 C. 64 and 4 D. None of these
3	Question Image	
4	If the st. line $3x + 4y = K$ touches the circle $x^2 + y^2 - 10x = 0$ then the value of K is	A1 or 20 B10 or 40 C2 or 20 D. 2 or 20
5	A person standing on the bank of a river observes that the angle subtended by a tree of the opposite bank is 60° , when he retreats 40 m from the bank, he finds the angle to be 30° . The height of the tree and the breadth of the river are	
6	Question Image	A. P(A) + P(B) B. P(A) - P(B) C. P(A) . P(B) D. P(A) / P(B)
7	Tan ⁻¹ 1/x =	A. sin x B. sec ⁻¹ X C. cot ⁻¹ X D. None of these
8	Question Image	A. 3/4 B. r C. v D. None of these
9	Question Image	A. (1, 3) B. (-1, -3) C. (1, -3) D. (-1, 3)
10	(2.02)4 s equal to	A. 16 B. 16.6496 C. 17 D. 18
11	Question Image	
12	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0] D. [0, 0, 1]
13	Question Image	
14	A circle is a limiting case of an ellipse whose eccentricity	A. Tends to a B. Tends to b C. Tends to 0 D. Tends to a + b
15	Question Image	
16	Question Image	
17	A relation in which the equality is true for all values of the unknown is called	A. An identity B. An equation C. A polynomial D. None of these
18	The proposition S(n) is true \forall n \in N,S(k+1) true when is true	A. S(1) B. Both a & D; c C. S(k) D. None

19	Question Image	
20	The number of subsets of B = $\{1,2,3,4,5\}$	A. 10 B. 32 C. 16 D. 5