

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
3	For a square matrix A, if $A = A^t$, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
4	Question Image	D. none of these
5	If a > b or a < b than a = b is a	A. Additive property B. Transitive property C. Trichotomy property of inequality
6	If A is such that a,A,B are in A.P then A is called	A. A.M B. Common ratio C. Common difference D. None of these
7	Find the geometric mean between 4 and 16	
8	A function in which the second elements of the order pairs are distinct is called	A. Onto function B. One-one function C. Identity function D. Inverse function
9	Question Image	A. A is proper subset of B B. A is an improper subset of B C. A is equivalent to B D. B is subset of A
10	The range of the principle cot function is	
11	Question Image	A. 0.9 B. 0.74 C. 0.2016 D. None of these
12	The interval in which $f(x)=x3-6x2+9x$ is increasing	A. 1 <x<3 and="" b.="" x="" x<1="">3 C. X≥1 and x≤3 D∞ < x < ∞</x<3>
13	The general value of θ satisfying the equation $2 \sin^2 \theta - 3 \sin \theta - 2 = 0$ is	
14	Question Image	A. A prime number B. An integer C. A whole number D. An irrational number
15	An equation which holds good for all values of variables is called	A. Equation B. Conditional equation C. Constant D. None
16	In R the right cancellation property w.r.t. addition is	
17	If A and B are two matrices such that AB = B and BA =A, then A^2 + B^2 =	A. 2 AB B. 2 BA C. A + B D. AB
18	Question Image	D. none of these
19	Sin 50°-sin 70°+sin 10° is equal to	A. 1 B. 0 C. 1/2 D. 2
		A Outstand Outstand

A. zx³-3x²+9 B. 2x³-5x-8 C. 48x²⁻46x-9 D. x⁹-1