

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	tan h x =	
2	Second derivative of $y = x^9 + 10x^2 + 2x - 1$ at $x = 0$ is	A. 10 B. 20 C. 12 D. 1
3	For each real number, there is a number which is its	A. Negative B. Possitive C. Opposite D. Similar
4	The sample space for tossing a coin twice is	A. {H, T} B. {HH, HT, TH, TT} C. {H, T, HH} D. {HH, HT, TT}
5	Question Image	A. Multiplication property B. Additive property C. Trichotomy property D. Transitive property of inequality
6	In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is	A. 2 / 5 B. 3 / 5 C. 4 / 5 D. None of these
7	There are types of rational fraction	A. Three B. Four C. Five D. Two
8	Question Image	
9	If $f(x)=x^3$ then $f(-2)$ is	A2 B4 C8 D. 8
10	If the roots of ax^2 + b = 0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0, b > 0
11	A point of a solution regions where two of its boundary lines intersect, is called:	A. Vertex of the solution B. Feasible point C. Point of inequality D. Null point of the solution region
12	Question Image	
13	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
14	The liner equation ax + by = c is called of the inequality ax +by > c.	A. Associated equation B. Non-associated equation C. disjoint equation D. Feasible equation
15	Question Image	A. 0 B1 C. 1 D2
16	If n is add the expansion $(a + x)^{n}$ has middle terms	A. 2 B. 3 C. 4 D. 5
17	Question Image	A. Orthogonal B. Involutary C. Idempotent D. Nilpotent

18	Sin 90° =	A1 B. 0 C. 1 D. Undefined
19	Question Image	A. 1 B. 2 C1 D. 0
20	G = {e, a, b, c} is an Abelian group with e as identity element. The order of the other elements are	A. 2, 2, 2 B. 3, 3, 3 C. 2, 2, 4 D. 2, 3, 4