ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. a sin(ax + b) + c B. - a sin(ax + b) + c
3	The point _____ is in the solution of the inequality 4x - 3y < 2	A. (0,1) B. (2,1) C. (2,2) D. (3,3)
4	√2 is a number	A. Rational B. Irrational C. Even D. Odd
5	Another name of quadratic equation is	A. Polynomial B. 2nd degree polynomial C. Linear equation D. simaltaneous equations
6	The nth term of an A.P., is 12-4n. Its common difference is	A. 8 B. 4 C. 4 D. 16
7	Question Image	
8	A square matrix A for which A^t= A is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
9	The angle between the vectors u =2i - i + k and v = -i + i is:	A. 3π/2 B. 2π/3 C. 5π/6 D. π/3
10	If a variable y dependents on a variable x in such a way that each value of x determines exactly one value of y, then we say that	A. x is function of y B. y is a function of x C. y is independent variable D. x is real valued function
11	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th
12	w^{-1}= _____	A. 0 B. 1 C. w D. w²
13	If B-A≠φ , then n(B-A) is equal to	A. n(a)+n(c) B. n(c)-n(a) C. n(a)-n(c) D. None of these
14	i^9 =	A. i² B. -1 C. 1 D. i
15	w^{73}= _____	A. 0 B. 1 C. w D. w²
16	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
17	Question Image	A. a cot(ax + b) + c B. - a cot(ax + b) + c

18	The horizontal distance between the two towers is 60 m. the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30°. If the height of the taller tower is 150 m, the height of the shorter one is	A. 116 m B. 200 m C. 216 m D. None of these
19	There may be _____ feasible solution in the feasible region	A. Infinite B. Finite C. Defined D. None of above
20	Question Image	B. a f(x) + c C. f(x) + a