ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The general solution of tan 3x = 1 is	
2	If a statement S(n) is true for n = i where i is some natural number and the truth of S(n) for n = k > i implies the truth of S(n) for n = k +1 then S(n) is true for all positive integers	
3	A matrix in which the number of rows is equal to the number of columns is called a	A. Diagonal matrix B. Rectangular matrix C. Square matrix D. Scalar matrix
4	x = _____ is in the solution of 2x + 3 < 0	A. 0 B. 2 C. -1 D. -2
5	the function y = mx+c is, called linear function, because	A. it has only two variables B. it has one varible C. its graphs is straight line D. its graphs is circle
6	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
7	If #n = (n-5)2 + 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9
8	i^2 =	A. 1 B. 2 C. -1 D. 0
9	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
10	$(x + 2)^2$= x^2+ 4x + 4 is	A. A linear equation B. A cubic equation C. A quadratic equation D. None
11	The number of subset of {0} is	A. 1 B. 2 C. 3 D. None
12	The value of 7π /9 in terms of degrees is	A. 150^o B. 130^o C. 135^o D. 140^o
13	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
14	x-axis divides the line segment joining points (2,-3) and (5,6) in the ratio:	A. 2 : 1 B. -2 : 1 C. 1 : 2 D. -1 : 2
15	Name the property used in 100 + 0 = 100	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity
16	Question Image	
17	The general term of a sequence is denoted by	A. a₁ B. a_n

17	The general term of a sequence is denoted by	C. n D. s_n
18	f(x) = x is	A. trigonometric function B. exponential function C. quadratic function D. identify function
19	If $f(x) = x^{2/3}$ then $f^{1}(x)$ at x = 8 equals:	A. 8 B. 1/8 C. 1/3 D. 2/3
20	Question Image	