

ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Two sets A and B are said to be disjoint if	
2	The third term of a G.P. is the square of first term. If the second term is 8, then the 6th term is	A. 120 B. 124 C. 128 D. 132
3	An infinite sequence has no	A. nth term B. Last term C. Sum D. None of these
4	Question Image	A. Identity matrix B. Diagonal matrix C. Null matrix D. Hermitian matrix
5	The 10th common term between the series 3+7+11+ and 1 + 6 +11 + is	A. 191 B. 193 C. 211 D. None of these
6	Question Image	
7	If $f(x) = c$ then $f^{1}(x^{0})$ equals:	A. 1 B. 0 C. cx D. c
8	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	
9	Question Image	A. Linear equation B. Quadratic equation C. Cubic equation D. None of these
10	Question Image	
11	$f(x) = 3x^4 - 2x^2 + 7$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
12	Question Image	
13	If points (5 , 5), (10 , x) and (-5 , 1) are collinear, x =	A. 5 B. 3 C. 9 D. 7
14	A non-homogeneous linear system AX = B has no solution if	A. A = 0 B. A ≠ 0 C. Rank (a) = no of variables D. Rank > no of variables
15	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
16	Question Image	A. A ² - 5A + 7I = 1 B. 2A ² - 3A + 7I = 0 C. A ² - 5A + I = 0 D. A ² - 5A + 7I = 0
17	Question Image	
18	If $n(A) = n$ then $n(P(A))$ is	A. 2n B. n ² C. n/2 D. 2 ⁿ
		A. deduction

A. deduction

19	To draw conclusions from some expreiments or few contacts only is called	B. implication C. conjunction D. induction
20	The period of tan [x/3] is	A. 2 <i>¬π</i>> B. <div style="text-align: start;">4<i style="text-align: center; background-color: rgb(255, 255, 255);">π</i>></div>