ECAT Pre Engineering MCQ's Test For Mathematics Full Book

Sr	Questions	Answers Choice
1	Question Image	
2	The set of rational numbers is subset of	A. The set of natural numbers B. The set of real numbers C. The set of integers D. The set of whole numbers
3	Find the geometric mean between 4 and 16	
4	The additive inverse of 2/3 is	A. 3/2 B. -2/3 C. -3/2 D. 0
5	Two cards are drawn at random without replacement. the probability that the first is a king and second is not a king is	A. 48 / 663 B. 24 / 663 C. 12 / 663 D. None of these
6	The area between the x-axis the curve y =4x-x2 is :	A. 32/2 B. 15 C. 18 D. 21
7	If sided of□ABC are 16,20,and 33, then the value of the greatests angle to	A. 150□ 20' B. 132□ 35' C. 101□ 25' D. 160□ 50'
8	To draw conclusions front premises believed to be true, this way of reasoning is called	A. deduction B. induction C. implication D. disjunction
9	For any integer k, w^n= _____ when n = 3k	A. 1 B. 2 C. 0 D. -4
10	O (0,0)is called:	A. Position vector B. Free vector C. Unite vector D. Null vector
11	The sum of all odd numbers between 100 and 200 is	A. 6200 B. 7500 C. 6500 D. 3750
12	Which of the following is surjective	
13	Question Image	A. Hermitian matrix B. Skew-hermitian matrix C. Symmetric matrix D. Identity matrix
14	A function which is to be maximized or minimized is called an	A. Explicit function B. Implicit function C. Objective function D. None
15	Question Image	
16	The fifth term of (a+2x3)17 is	A. 4013 x3a13 B. 2208a13 x12 C. 223x7a18 D. 38080a13 x12
17	tan h x = _____	
18	If f(x) = $-x^3$then f(-2) is	A. -2 B. -4 C. -8 D. 8

19	Let a_1, a_2, a_3, $a_4$and $a_5$be such that a_1, a_2, and $a_3$are in A.P., a_2, $a_3$and $a_4$are in G.P and a_3, $a_4$and $a_5$are in H.P. Then, a_1, $a_3$and $a_5$are in	A. G.P. B. A.P. C. H.P. D. None of these
20	154^{o} 20' =	A. 2550/34401π B. 27721/22400 π C. 2521/32400π D. 4125/32400π