ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Deductive logic in which every statement is regarded as true or false and there is no other possibility is called	A. deductive logic B. inductive logic C. Aristolian logic D. non-Aristolian logic
2	By expressing sin 125° in terms of trigonometrical ratios, answer will be	A. sin 65° = 0.9128 B. sin 55° = 0.8192 C. sin 70° = 0.5384 D. sin 72° = 0.1982
3	2.333....is a	A. Irrational no B. Complex no C. Rational no D. None of these
4	Question Image	
5	If a = {2m/2m < 9 ,m€ p} , the (n A) =	A. {2,3,4,5,6,7,8} B. {2,4,6,8............16} C. { 4, 6} D. {2,3,5,7}
6	If the expansion of $(1 + x)^{20}$, then co-efficient of rth ad (r + 4)th term are equal, then r is	A. 7 B. 8 C. 9 D. 10
7	Question Image	
8	if Z1 = 1+i, Z2= 2+3i, then |Z2 -Z1| =	A. $\sqrt{3}\,i$ B. $\sqrt{7}$ C. -2-i D. $\sqrt{5}$
9	A committee consists of 9 experts taken from three institutions A, B, and C, of which 2 are from, A, 3 form B and 4 from C. If three experts resign, then the probability that they belong to different institutions is	A. 1 / 729 B. 1 / 24 C. 1 / 21 D. 2 / 7
10	A matrix with a single column is called	A. Column matrix B. Row matrix C. Identity matrix D. Null matrix
11	If n is a negative integer n! is	A. 1 B. 0 C. Unique D. Not defined
12	Multiplicative inverse of "1" is	A. 0 B. -1 C. 1 D. {0, 1}
13	Question Image	
14	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
15	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is	A. an ellipse B. a circle C. a hyperbola D. a parabola
16	In order of A is m x n and order of B is n x p then order of AB is	A. m x m B. n x n C. m x p D. p x m

17	Domain of tangent function is
18	Question Image
19	Question Image	B. $\ln(x^2 - x + 1)^4 + c$
20	Question Image