ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
2	The multiplicative inverse of 2/3 is	A. 3/2 B. -2/3 C. -3/2 D. 1
3	If A is a subset of B and B contains at least one element which is not an element of A, then A is said to be	A. Improper subset of B B. Super set of B C. Proper subset of B D. None of these
4	Question Image	A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z
5	(0,0) is in the solution of the inequality	A. x + y > 3 B. x - y > 2 C. 3x + 2y > 5 D. 3x - 2y < 2
6	Question Image	
7	The identity function is	A. surjective B. injuctive C. bijective D. into
8	The set of months in a year beginning with S.	A. {September, October, November} B. Singleton set C. Null set D. Empty set
9	Question Image	
10	The set of real numbers is a subset of	A. The set of natural numbers B. The set of rational numbers C. The set of integers D. The set of complex numbers
11	The graph of a constant line is	A. vertical line B. parabola C. circle D. horizontal line
12	The additive inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
13	Question Image	A. 2 B. 1 C. 5 D. 0
14	Roots of the equation $9x^2 - 12x + 4 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
15	Question Image	
16	The square matrix A is skew-symmetric when At =	A. -B B. -C C. -A D. -D
17	The graph of y> 0 is the upper - half of:	A. y-axis B. x-axis C. 1st and 4th quandrant

		D. 2nd and 3rd quadrant
18	Out of 10, 000 families with 4 children each, the number of families all of whose children are daughters is	A. 375 B. 500 C. 625 D. 150
19	The set of the first elements of the orders pairs forming a relation is called its	A. Relation in B B. Range C. Domain D. Relation In A
20	Question Image	A. An empty set B. Universal set C. A singleton set D. None of these