ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. Polynomial B. Equation C. Proper fraction D. Improper fraction
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	Question Image	
4	Corner point of the system $x - y \leq 2, x + y \leq 4, 2x - y \geq 6, x \geq 0, y \geq 0$	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
5	Question Image	
6	A quadratic equation in x is an equation that can be witten in the form	A. $ax^2 + b = 0$ B. $ax^3 + b^2 + c = 0$ C. $ax^2 + bx + c = 0$ D. $ax^3 + bx^3 + cx = 0$
7	Question Image	A. Natural numbers B. Whole numbers C. Integers D. Rational numbers
8	n different objects can be arranged taken all at a time in _____	A. $(n + 1)!$ ways B. $(n - 1)!$ ways C. $n!$ ways D. n ways
9	The number of words that can be formed out of the letters of the word ASSASSINATION is	
10	Multiplicative inverse of "1" is	A. 0 B. ±1 C. 1 D. {0,1}
11	The sum of n terms of a series is denoted by	A. d B. n C. S_n D. a_n
12	An unbiased die is thrown. Then the probability of getting a prime is	A. 1/2 B. 2/3 C. 3/4 D. None of these
13	Shifting origin to (-3,2), the new coordinates of (-6,9) are:	A. (-9,7) B. (3,7) C. (-3,7) D. (3,-7)
14	If $Z_1 = 1 + i$, $Z_2 = 2 + 3i$, then $|Z_1 - Z_2| = ?$	A. $\sqrt{5}$ B. $\sqrt{7}$ C. -1-2i D. $\sqrt{3}$
15	Question Image	
16	The domain of the function $x/x^2 - 4$ is given by	A. R B. R + 2 C. [R - (+2) D. R-4
17	A and B be two square matrices and if their inverse exist, the $(AB)^{-1} =$	A. $A^{-1}B^{-1}$ B. AB^{-1} C. $A^{-1}B$ D. $B^{-1}A^{-1}$

18	If a,b,c are three non-coplanar vector then [a +b,b +c,c +a] = _____	A. [a.b.c] B. 2[a,b,c] C. [abc]-2 D. 2[abc]2
19	An observer on the top of a cliff 200 m above the sea level, observes the angles of depression of two ships on opposite sides of the cliff to be 45° and 30°, respectively. The distance between the ships if the line joining them points to the base of cliff is	
20	If all members of a sequence are real numbers then it is called a	A. Series B. Function C. Real sequence D. Range

A. [a.b.c]
B. 2[a,b,c]
C. [abc]-2
D. 2[abc]2

A. Series
B. Function
C. Real sequence
D. Range