ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	For the equation $\|x^2\| + \|x\| -6 =0$, the roots are	A. One and only one real number B. Real with sum one C. Real with sum zero D. Real with product zero
2	Question Image	A. Evert element of A is in B B. Every element of B is in A C. Every element of A is in B' D. Every element of A is in A
3	Question Image	A. 1 B. 2 C. 3/2 D. 5/2
4	Period of sin 3x is _____	
5	Question Image	
6	Question Image	A. (2x4) B. (2x7) C. (2x3) D. (7x2)
7	Fifteen girls compete in a race. The first three places can be taken by them in	A. 3! ways B. 12! ways C. 15 x 14 x 13 ways D. 42 ways
8	The greatest integer which divides the number 101^{100}- 1 is	A. 100 B. 1000 C. 10000 D. 100000
9	Question Image	C. x²+ 2x + c D. (x²+ 2x -1) ⁴+ c
10	Question Image	
11	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
12	Cofactor of an element aij denoted by Aij is	A. (-2)i+j B. Mij C. (-1)i+j Mij D. None of above
13	Question Image	A. 0 B. -1 C. 1/2 D. 1
14	Question Image	
15	Question Image	
16	Question Image	
17	If $b_1, b_2, b_3, ...$ are in G.P. with first term unity and common ratio r, then the minimum value of $b_1 - b_3 + b_5$ is equal to	A. 3/4 B. 1/4 C. 1 D. None of these
18	If a,βare the roots of the equation x2 - 8x + p = 0 and a2 + β2= 40,then value of p is	A. 8 B. 12 C. 10 D. 14
19	If $Z_1 = 1 + i$, $Z_2 = 2+3i$, then $\|Z_2 - Z_1\| = ?$	
		A. one element

20	The solution set of trigonometric equation contains	A. one element B. two elements C. three elements D. Infinite elements