ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If Z = (1,2), then Z^{-1} =?	A. (0.2, 0.4) B. (-0.2 ,0.4) C. (0.2,-0.4) D. (-0.2,-0.4)
2	A complex number "1 + i" can also be expressed as"	A. 2(Cos60^o + i sin 30^o) B. Cos 60^o + i sin 60^o C. (Cos 60^o + i sin 60^o) D. Cos 30^o + i sin 30^o
3	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'
4	Question Image	
5	The number of permutations of n objects of which there are $n_1$like of one kind, $n_2$like of the second kind and $n_3$like objects of third kind are	
6	The period of the trigonometric function y = sin x cos x is	A. 2π B. π C. 4π D. π / 2
7	Rank of matrix [1 3 5 0] is	A. 1 B. 3 C. 2 D. 4
8	Two quadratic equation in which xy term is missing and the coefficients of $x^2$and $y^2$are equal, give a linear equation by _____	A. Addition B. Subtraction C. Multiplication D. Division
9	f(x) = 1 is	A. identity function B. constant function C. linear function D. quadratic function
10	Question Image	A. x²+ 2 B. 3x + 2 C. 3x²+ 5 D. 3x²+ 2
11	Question Image	
12	a _____quantity is one that possesses both magnitude and direction.	A. Scalar B. Vector C. Segment D. None of these
13	Question Image	B. 6x + 2 + c C. 6x + x²+ c D. 6x³+ x²+ x
14	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
15	The points (a ,0),(0,b) and (3a , -2b) are:	A. Collinear B. Vertices of isosceles triangle C. corner of a right-angled triangle D. None of these
16	The value of cos(cos-1 1/2) is	A. 1/2 B. √3/2 C. -1/2 D. 1/√2

		D. 1/√2
17	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19 D. √(2&7)
18	The multiplicative inverse of 1 - 2i is	
19	The positive integer just greater than $(1+0.0001)^{10000}$is	A. 4 B. 5 C. 2 D. 3
20	Question Image	