ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	In a quadratic equation with leading co-efficient 1, a student reads the co-obtain the roots as - 15 and -4. The correct roots are	A. 6, 10 B. -6, -10 C. 8, 8 D. -8, -8
2	The cube roots of 8 are	
3	Question Image	A. 1760 B. -193 C. 223 D. none of these
4	$\cos^{-1}(\cos x)$ =	A. x B. cos x C. x = 1/x D. cos⁻² x
5	Question Image	A. I B. |A| C. |A| I D. None of these
6	The range of y=x2 + 1 is the set of non-negative real numbers except	A. 0≤ y < 1 B. 0 < y < 1 C. 0≤ y≤ 1 D. 0 < y≤1
7	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
8	Question Image	
9	Number of permutations of n distinct objects taken r(<n - 3) at a time which exclude 3(<n) particular objects is	A. 3! P(n, r - 3) B. P(n, 3) P(n, r - 3) C. P(r, r)P(n, r - 3) D. P(n - 3, r)
10	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
11	If f(α) = b2 and g (c) =d where c=b2 then (gof)(a) is	A. α B. c C. b D. d
12	Question Image	
13	Two matrices A and B are conformable for the product AB if	A. Both A and B are square B. Both A and B are symmetric C. Number of rows of A = number of columns of B D. Number of columns of A = number of rows of B
14	Question Image	
15	The period of tan [x/3] is _____	A. 2π B. 4π C. <span style="text-align: center; background-color: rgb(255, 255,

		255); ">3<i style= text-align: center;">π D. 5π
16	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function
17	A key ring is an example of	A. Permutation B. Circular permutation C. Combination D. None
18	x = _____ is in the solution of 2x - 3 < 0	A. 2 B. -2 C. 3 D. 4
19	$\pi$is the period of the function	A. |sin x| + |sin x| B. sin⁴x + cos x C. sin (sin x) + sin (cos x) D. None of these
20	Question Image	A. A B. A' C. U D. None of these