ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If 2 $\tan^{1}(\cos x) = \tan^{-1}(\operatorname{cosec}^{2}x)$, then x is equal to	A. π/ 3 B. π/ 2 C. π/ 6 D. π
2	Question Image	
3	A point where two of its boundary lines intersect is called	A. Corner point B. Feasible point C. Vertex D. Feasible solution
4	Question Image	
5	Z is the set of integers, (z, *) is a group with a * b = a + b + 1, a, b $\in$ G. then inverse of a is	A. -a B. a + 1 C. -2 -a D. None of these
6	Question Image	A. x³- x²+ x + c B. 6x - 2 + c C. x³- 2x + c
7	The sum of all positive integral multiple of 5 less than 100 is	A. 950 B. 760 C. 1230 D. 875
8	The solution set of the equation 4 $\cos^{2}x$ - 3 + 0 is	D. none of these
9	If $a^{x} = b^{y} = c^{z}$ and a, b, c are in G.P. then x, y, z are in	A. A.P. B. G.P. C. H.P. D. None of these
10	Let A and B be two non-empty sets, then any subset of the cartesian product A x B called a	A. Function B. Domain C. Range D. Binary relation
11	The number of combinations of 10 different objects taken 8 objects at a time is	A. 90 B. 45 C. 55 D. 50
		A. π/ 2 B. <span style="font-family: "Times New Roman"; font-

12	Question Image	size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);">π / 3 C. π / 4 D. π
13	Question Image	
14	pth term of an H.P. is qr and qth term is pr then the rth term of the H.P. is	A. pqr B. 1 C. pq D. pqr²
15	w^{73}= _____	A. 0 B. 1 C. w D. w²
16	The function f : x→ y defined as f (x) =α∀x∈ X,α∈ y is called	A. Constant function B. Polynomial function C. Identity function D. Linear function
17	The distance from the point P(6,-1) to the line 6x - 4x + 9 = 0 is:	A. 5/7 B. √52/7 C. 2/48 D. 49 /√52
18	Question Image	
19	Question Image	A. a constant function B. linear function C. quadratic funtion D. none of these
20	If x^4- $10x^2$- 2x + 4 is divided by x + 3, then the reminder is	A. 1 B. 0 C. 4 D. None of these