ECAT Mathematics Chapter 16 Solution of Trigonometric Equations

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. I andII quadrants B. II andIII quadrants C. III andIVquadrants D. none of these
3	Question Image	
4	Question Image	
		A. 0

5	The number of values of x in the interval [0, 5π] satisfying the equation 3 $\sin^2 x$ - 7 sinx + 2 = 0 is	B. 5 C. 6 D. 10
6	Question Image	A. I andII quadrants B. II andIII quadrants C. II andIVquadrants D. none of these
7	Question Image	
8	Question Image	
9	The solution set of sin x + cos x = 0 is	
10	The number of solution of the equation tan x + sec x = 2 cos x lying in the interval [0, 2π] is	A. 0 B. 1 C. 2 D. 3
11	Question Image	A. From an empty set B. 1 C. 2 D. >2
12	Question Image	
13	cotθ= sin 2θifθ=	
		A. one element

14	The solution set of trigonometric equation contains	B. two elements C. three elements D. Infinite elements
15	Question Image	A. A finite non-empty set B. Null set C. Both a and b D. None of these
16	General solution of tan 5θ = cot 2θ is	
17	The smallest positive root of the equation tan x - x = 0 lies on	
18	One root of the equation cos x - x + 1/2 = 0 lies in the interval	
19	Question Image	D. none of these
20	By expressing cos 113° in terms of trigonometrical ratios, answer will be	A. −cos 76° = -0.7093 B. −cos 65° = -0.4258 C. −cos 67° = -0.3907 D. −cos 62° = -0.8520