ECAT Mathematics Chapter 16 Solution of Trigonometric Equations

Sr	Questions	Answers Choice
1	The general value of θ satisfying the equation $2\sin^2\theta - 3\sin\theta - 2 = 0$ is	
2	If $4\sin^2\theta = 1$, then values of θ are	
3	The number of solution of the equation $\tan x + \sec x = 2\cos x$ lying in the interval $[0, 2\pi]$ is	A. 0 B. 1 C. 2 D. 3
4	For Cosine Rule of any triangle ABC, b^2 is equal to	A. a² - c² + 2ab cos A B. a³ + c³ - 3ab cos A C. a² + c² - 2ac cos B D. a² - c² 4bc cos A
5	Question Image	
6	If $\sin(\pi\cos\theta) = \cos(\pi\sin\theta)$, then which of the following is correct?	
7	Question Image	
		A. I andII quadrants B. II and

8	Question Image	<span style= color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 18px; background-color: rgb(255, 255, 248);">III quadrants C. II and IVquadrants D. none of these
9	Question Image	A. trigonometric equation B. conditional equation C. identity D. None
10	Question Image	
11	In a triangle ABC, if angle A = 72° , angle B = 48° and c = 9 cm then Ĉ is	A. 69° B. 66° C. 60° D. 63°
12	cotθ= sin 2θifθ=	
13	Question Image	D. none of these
14	Question Image	
15	Question Image	D. none of these
16	By expressing sin 125° in terms of trigonometrical ratios, answer will be	A. sin 65° = 0.9128 B. sin 55° = 0.8192 C. sin 70° = 0.5384 D. sin 72° = 0.1982
17	Question Image	
18	Question Image	D. none of these
19	Question Image	A. 1 B. 2 C. 3 D. None of these
20	If sin 6θ+ sin 4θ+ sin 2θ, thenθ=	