

## ECAT Mathematics Chapter 16 Solution of Trigonometric Equations

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. trigonometric equation B. conditional equation C. identity D. None
2	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
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. A finite non-empty set B. Null set C. Both a and b D. None of these
4	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. <span style="font-size: 0.95em;">Angle A is obtuse</span> B. <span style="font-size: 0.95em;">Angle A is acute</span> C. <span style="font-size: 0.95em;">Angle A is right-angle</span> D. <span style="font-size: 0.95em;">All of above</span>
5	One root of the equation $\cos x - x + 1/2 = 0$ lies in the interval	
6	In a triangle ABC, if angle A = $72^\circ$ , angle B = $48^\circ$ and c = 9 cm then $\hat{C}$ is	A. <span style="font-size: 0.95em;"><math>69^\circ</math></span> B. <span style="font-size: 0.95em;"><math>66^\circ</math></span> C. $60^\circ$ D. <span style="font-size: 0.95em;"><math>63^\circ</math></span>
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. No solution B. One real solution C. More than one real solution D. None of these
10	If $\sin(\pi \cos \theta) = \cos(\pi \sin \theta)$ , then which of the following is correct?	
11	The general solution of $\tan 3x = 1$ is	
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these
13	$\cot \theta = \sin 2\theta$ if $\theta =$	
14	General solution of $\tan 5\theta = \cot 2\theta$ is	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. both a & c
16	$\cot \theta = \sin 2\theta$ if $\theta =$	
17	By expressing $\cos 113^\circ$ in terms of trigonometrical ratios, answer will be	A. <span style="font-size: 0.95em;"><math>-\cos 76^\circ = -0.7093</math></span> B. <span style="font-size: 0.95em;"><math>-\cos 65^\circ = -0.4258</math></span> C. <span style="font-size: 0.95em;"><math>-\cos 67^\circ = -0.3907</math></span> D. <span style="font-size: 0.95em;"><math>-\cos 62^\circ = -0.8520</math></span>
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
19	Question Image <input style="width: 500px; height: 20px;" type="text"/>	

