Mathematics ECAT Pre Engineering Chapter 16 Solution of Trigonometric Equations Online Test

Sr	Questions	Answers Choice
1	The number of points of intersection of two curves y = 2 sin x and $y = 5x^2 + 2x + 3$ is	A. 0 B. 1 C. 2 D. None of these
2	Question Image	A. 1 B. 2 C. 3 D. None of these
3	Question Image	
4	The general value of θ satisfying the equation $2\sin^2\theta - 3\sin\theta - 2 = 0$ is	
5	Question Image	A. From an empty set B. 1 C. 2 D. >2
6	Question Image	A. 7 B. 5 C. 6 D. None of these
7	If $\sin(\pi\cos\theta) = \cos(\pi\sin\theta)$, then which of the following is correct?	
8	The solution of the equation $\cos^2\theta + \sin\theta + 1 = 0$ lies in the interval	
9	One root of the equation cos x - x + 1/2 = 0 lies in the interval	
10	General solution of $\tan 5\theta = \cot 2\theta$ is	
11	The smallest positive root of the equation tan x - x = 0 lies on	
12	Question Image	A. A finite non-empty set B. Null set C. Both a and b D. None of these
13	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
14	If $\sin 6\theta + \sin 4\theta + \sin 2\theta$, then $\theta =$	
15	The number of values of x in the interval $[0, 5\pi]$ satisfying the equation $3\sin^2 x - 7\sin x + 2 = 0$ is	A. 0 B. 5 C. 6 D. 10
16	Question Image	
17	Question Image	
18	$\cot\theta = \sin 2\theta$ if $\theta =$	
19	$\cot\theta = \sin 2\theta$ if $\theta =$	
20	Question Image	
21	Question Image	
22	Question Image	A. No solution B. One real solution C. More than one real solution D. None of these

		D. None of these
23	If 4 $\sin^2\theta$=1, then values of$\underline{\theta}$are	
24	Question Image	A. 30° B. 45° C. 60° D. 75°
25	The general solution of tan 3x = 1 is	
26	If Sin A = sin B, cos A = cos B, then the value of A in terms of B is	
27	Question Image	
28	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
29	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
30	Sine rule for a triangle states that	A. a/sin A = b/sin B = c/sin C B. sin A/a = sin B/b = sin C/c C. a/sin A + b/sin B + c/sin C D. 2a/sin A = 2b/sin B = 2c/sin C