ECAT (Pre-Eng) Mathematics Chapter 16 Solution of Trigonometric Equations

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	The general solution of tan 3x = 1 is	
3	If sin ($\pi\cos\theta$) = cos ($\pi\sin\theta$), then which of the following is correct?	
4	Question Image	
5	Question Image	D. all
6	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
7	The general value ofθsatisfying the equation 2 $\sin^2\theta$- 3 sinθ-2 = 0 is	
8	Question Image	A. trigonometric equation B. conditional equation C. identity D. None
9	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°
10	Question Image	
11	Question Image	D. none of these
12	General solution of 1 + cos x = 0 is	
13	Question Image	A. A finite non-empty set B. Null set C. Both a and b D. None of these
14	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
15	One root of the equation cos x - x + 1/2 = 0 lies in the interval	
16	Question Image	A. 7 B. 5 C. 6 D. None of these
17	Question Image	A. No solution B. One real solution C. More than one real solution D. None of these

18	If sin 6θ+ sin 4θ+ sin 2θ, thenθ=	
19	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
20	Question Image	