ECAT Mathematics Chapter 15 Inverse Trigonometric Functions

Sr	Questions	Answers Choice
1	Question Image	
2	Sin -1 x=	A. sin(π/2-x) B. Sin-1 (π/2-x) C. π/2-cos-1x D. π/2 + cos-1x
3	The number of triplets (x, y, z) satisfying $\sin^{-1}x + \cos^{-1}y + \sin^{-1}z = 2\pi$ is	A. 0 B. 2 C. 1 D. Infinite
4	The value of sin-1 24/25 is equal to	A. csc-1 25/24 B. sec-1 24/25 C. 2 tan-1 4/5 D. 2cos-1 24/25
5	The domain of the principle cos function is	
6	sin ($\sin^{-1}$(1/2))=	A. 0 B. 2 C. ∞ D. 1/2
7	Question Image	
8	Question Image	
9	Cos-1(x)=	A. cos x B. x C. tan-1(-x) D. Sec-1 (1/x)
10	The exact value of $\cos^{-1}(-1) + \cos^{-1}(1) =$	A. π B. -π C. π/2 D. π/3
11	$\sin^{-1}[-1/2]$ = _____	
12	sn (2sin-10.8)	A. 0.56 B. 0.69 C. -0.16 D. 0.96
13	Question Image	A. π / 2 B. π / 3 C. π / 4 D. π
14	Question Image	A. π B. π / 2 C. π /

		3 D. π / 4
15	Question Image	A. π / 3 B. π / 4 C. π / 6 D. 0
16	Question Image	
17	Question Image	
18	Question Image	A. 1 B. -1 C. 0 D. None of these
19	$\tan^{-1}x > \cot^{-1}x$ holds for	A. x > 1 B. x < 1 C. x = 1 D. All values of x
20	What is the value of cos-1(1/2)?	A. π/3 B. π/4 C. 3π/2 D. π/6