ECAT (Pre-Eng) Mathematics Chapter 15 Inverse Trigonometric Functions

Sr	Questions	Answers Choice
1	The Principal value of sin-1 (-1/1/2)	A. π/2<o:p></o:p> B. -π/2<o:p></o:p> C. π<o:p></o:p> D. -π<o:p></o:p>
2	What is the value of cos-1(1/2)?	A. π/3 B. π/4 C. 3π/2 D. π/6
3	$\tan^{-1}(1/4) + \tan^{-1}(2/9)$ is equal to	A. 1/2 cos⁻¹(3/5) B. 1/2 sin⁻¹(3/5) C. 1/2 tan⁻¹(3/5) D. tan⁻¹1/2
4	Question Image	
5	Question Image	
6	Cos-1 (-x) =	A. -x B. 1/x C. tan-1 x D. π-cos-1 x
7	$\sin^{-1} x =$	A. tan⁻¹ x B. Cosec⁻¹ x C. Cosec x D. cosec⁻¹(1/x)
8	The range of the principal sine function is	
9	Question Image	
10	Question Image	
11	Question Image	
12	The domain of the principle sine function is	
13	$\sin^{-1}[-1/2] =$ _____	
14	Question Image	A. π / 3 B. π / 4 C. π / 2 D. π
15	sin -1(sin2π/3) =	A. π/2 B. 2π/3 C. -3π/2 D. π/3
16	In the interval 0≤ x ≤ π, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
		A. π/ 2

17	Question Image	B. π/ 3 C. π/ 4 D. π
18	Question Image	
19	Question Image	
20	Question Image	