Mathematics ECAT Pre Engineering Chapter 15 Inverse Trigonometric Functions Online Test

Sr	Questions	Answers Choice
1	The exact value of $\cos^{-1}(-1) + \cos^{-1}(1) =$	A. π B. -π C. π/2 D. π/3
2	The exact value of cos-1 (0) is	A. π/2 B. -π/2 C. 3π D. π-π/6
3	Cos^{-1} 12/13 =	A. tan⁻¹ 3/5 B. cot⁻¹ 13/12 C. Sec⁻¹ 13/12 D. sin⁻¹ 5/13
4	$\cos^{-1}(\cos x) =$	A. x B. cos x C. x = 1/x D. cos⁻² x
5	Cos-1(x)=	A. cos x B. x C. tan-1(-x) D. Sec-1 (1/x)
6	Cos-1 (-x) =	A. -x B. 1/x C. tan-1 x D. π-cos-1 x
7	If$\pi \leq x \leq 2\pi$, then cos-1 (cos x)=	A. cos x B. -x C. 1/x D. -x
8	If cos (2 sin-1 x) = 1/9 , then what is the value of x?	A. 1/3 B. -2/3 C. 2/3 D. 2/3 , -2/3
9	Cos (cos4π/3)=	A. π/2 B. π/3 C. 2π/3 D. -π/3
10	The exact degree value of the function sin-1(-√3/2) is	A. 70^o B. 50^o C. 90^o D. 60^o
11	What is the value of cos (cos-1 2) ?	A. √2 B. 1/2 C. undefine D. 0
12	The value of cos(cos-1 1/2) is	A. 1/2 B. √3/2 C. -1/2 D. 1/√2
13	What is the value of cos-1(1/2)?	A. π/3 B. π/4 C. 3π/2 D. π/6
14	$\sin^{-1} x =$	A. tan⁻¹ x B. Cosec⁻¹ x C. Cosec x D. cosec⁻¹(1/x)
15	Sin-1(-x)=	A. x B. -x C. -sin-1 x D. cos-1 x

16	sin -1(sin2π/3) =	A. π/2 B. 2π/3 C. -3π/2 D. π/3
17	sn (2sin-10.8)	A. 0.56 B. 0.69 C. -0.16 D. 0.96
18	Sin -1 x=	A. sin(π/2-x) B. Sin-1 (π/2-x) C. π/2-cos-1x D. π/2 + cos-1x
19	sin (sin^{-1}(1/2))=	A. 0 B. 2 C. ∞ D. 1/2
20	The principal value of sin^{-1}[-√(√3) /2] is	A. 5π/3 B. -2π/3 C. - D. π/3
21	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
22	The value of sin^{-1} 5/13 is equal to	A. Cos 5/13 B. Tan⁻¹ 5/12 C. cos⁻¹5/12 D. 2 cos⁻¹4/5
23	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>
24	In the interval 0≤ x ≤ π, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
25	x = sin^{-1} 3, then the value of sin x is	A. √(3/2) B. 3 C. Not possible D. -1
26	The domain of the function y = sin x , is	A. -π/2≤ x≤ π/2 B. π/ ≤ x≤ π C. -2π ≤ x≤ 2π D. -1 ≤ x≤ 1
27	The principal value of sin^{-1} (-1/2)	A. π/3 B. π/4 C. π/6 D. -π/6
28	The principal value of sin-1√(3/2) is	A. -π/3 B. π/3 C. 2π/3 D. π/2
29	Sec^{-1}x =	A. Cos⁻¹1/x B. cosec⁻¹1/x C. Cos⁻¹(-x) D. Tan⁻¹x
30	Sin^{-1}(-x)=	A. Cos⁻¹1/x B. - Sin⁻¹X C. Cot⁻¹X D. None of these