Mathematics ECAT Pre Engineering Chapter 15 Inverse Trigonometric Functions Online Test

Sr	Questions	Answers Choice
1	$Tan^{-1}1/x =$ _____	A. sin x B. sec⁻¹X C. cot⁻¹X D. None of these
2	$\sin^{-1}[-1/2] =$ _____	
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	If $\tan^{-1}3 + \tan^{-1}x = \tan^{-1}8$, then x=	A. 5 B. 1/5 C. 5/14 D. 14/5
5	Question Image	
6	Question Image	
7	Question Image	A. π / 3 B. π / 4 C. π / 6 D. 0
8	Question Image	A. π B. π / 2 C. π / 3 D. π / 4
9	$\sin[\cot^{-1}\{\cos(\tan^{-1}x)\}]=$	
10	$\tan(\cot^{-1}x)$ is equal to	A. cot(tan⁻¹x) B. tan x C. secon x D. None of these
11	Question Image	A. π / 4 B. π / 6 C. π / 3 D. 0
12	Question Image	A. π / 3 B. π / 4 C. π / 2 D. π
13	Question Image	A. 16 / 7 B. 6 / 17 C. 7 / 16 D. None of these
14	The solution set of the equation $\tan^{-1}x - \cot^{-1}x = \cos^{-1}(2 - x)$ is	A. [0, 1] B. [-1, 1] C. [1, 3] D. None of these

15	Question Image	A. 2 B. 5 C. 7 D. None of these
16	Question Image	A. 20 B. 10 C. 0 D. None of these
17	Question Image	A. 1 B. 0 C. 3 D. -3
18	Question Image	
19	$\tan^{-1}x > \cot^{-1}x$ holds for	A. x > 1 B. x < 1 C. x = 1 D. All values of x
20	Question Image	A. 1/3 B. 1 C. 3 D. None of these
21	Question Image	A. Cos 2x = sin 4y B. Cos 4y = cos 2x C. Cos 3y = sin 4x D. None of these
22	Question Image	
23	Question Image	A. 0 B. 1 C. -1 D. None of these
24	Question Image	A. 1 B. -1 C. 0 D. None of these
25	Question Image	A. x = 3 B. x = 1/5 C. x = 0 D. None of these
26	Question Image	
27	If $\cos^{-1}p + \cos^{-1}q + \cos^{-1}r = \pi$then $p^2+ q^2+ r^2+ 2pqr$ is equal to	A. 3 B. 1 C. 2 D. -1
28	Question Image	A. 1 B. 7 C. 4 D. None of these
29	Question Image	A. π/ 4 B. π/ 6 C. π/ 3 D. 2π/ 3
		A. <span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34);

30	Question Image	text-align: center; background-color: rgb(255, 255, 248);">π / 2 B. π / 3 C. π / 4 D. π