ECAT Mathematics Chapter 12 Trigonometric Functions and Identities Online Test

Sr	Questions	Answers Choice
1	Distance between A(3, 8), B(5, 6) is	
2	cos (α-β) = cosαcosβ+ sinαsin$\beta$is true for all	A. α>β> 0 B. α>β C. β>α D. None of these
3	sin (2π-θ)	A. cosθ B. sinθ C. tanθ D. -sinθ
4	Which one is a pair of allied angles	A. (180° -θ) B. (180° -θ,180° +θ) C. (180° +θ) D. None of these
5	2π+θwill have terminal side in Quad	A. I B. II C. III D. IV
6	cos 315° = _____	
7	sec (-360°) = _____	A. 0 B. 1 C. 2 D. 3
8	tan (-135°) = _____θ	A. 0 B. 1 C. 2 D. 3
9	sin 540° =	A. 0 B. 1 C. 2 D. 3
10	cos (180° -θ)=	A. sinθ B. - cosθ C. - sinθ

		D. None of above
11	Express as a sum or difference: 2 sin 5θcosθ	A. cos 4θ- cos 2θ B. sin 4θ+ sin 2θ C. cos 4θ+ cos 2θ D. sin 4θ- sin 2θ
12	Cos (α+β) - cos (α-β) =	A. -2 sinα sinβ B. 2 sinαcosβ C. -2 sinαcosα D. 4 sinα cosβ
13	cos (α+β) + cos (α-β) =	A. 4 cosαcosβ B. 2 cosαcosβ C. 2 sinαsinβ

		D. 2 sinαcosβ
14	$\cos^4\theta$- $\sin^4\theta$=	A. cos4θ B. cos2θ C. -sinθ D. sin2θ
15	$\sin^2\alpha\cos^2\alpha$=	A. -1 B. 0 C. 1 D. None of these
16	If cosα= 4/5, then cosα/2	
17	tanθ/2	
18	sin 2 α=	
19	cos 2α=	A. 1 - 2 sin²α B. sin ²α+ cos²β C. sin²α- cos²β D. None of these
20	sin (α+β) - sin (α -β) =	A. 4 cosαsinβ B. 2 cosαsinβ C. 4 cosαcosβ D. 4 sin αsinβ
		A. 2 sin<span style="font-family: "Times New Roman"; font-

21	sin (α+β) + sin (α-β)	size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);">αcosβ B. sin (2αβ) C. sinαcosα D. None of these
22	sin (α -β)=	A. sinαcosβ- cosαsinβ B. sinαcosβ+ cosαsinβ C. sinαcosα- cosβsin<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);">β D. sinαcosα- cosβsinβ
		A. sinαcosβ- cosαsin<span style="color: rgb(34,

23	sin $(\alpha+\beta)=$	sinβ B. sinαcosβ- cosαsinβ C. sinαcosα- cosβsinβ D. sinαcosα+ cosβsinβ
24	Tan $2\theta=$	
25	cos$\theta/2=$	
26	sin$\alpha=$	A. 2 sinαcosα B. 2 sinαcosβ C. 2 sinα/2 cosα/2 D. 1+ tan²α/2
		A. cos<span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color:

27	sin(180° -θ)=	rgb(255, 255, 248);">θ B. -cosθ C. Tanθ D. Sinθ
28	cos 2α=	A. sin²α + cos²α B. -cosθ C. tanθ D. None of these
29	Question Image	A. -sinθ B. cosθ C. sinθ D. -cosθ
30	Tan(α-β)=	