

## ECAT Mathematics Chapter 13 Trigonometric Functions and their Graphs Online Test

Sr	Questions	Answers Choice
1	Domain of $\sin \theta$ is _____	A. Set of real numbers B. Set of complex numbers C. Set of natural numbers D. Set of even numbers
2	A function $f(x)$ is said to be the periodic function if for all $x$ in the domain of $f$ , there exists a smallest positive number $p$ such the $f(x + p) =$ _____	A. $f(p)$ B. $f(x)$ C. $f(o)$ D. None of these
3	Range of $3 \cot x$ is _____	A. $[-1, 1]$ B. $[-3, 3]$ C. $\mathbb{R}$ D. None of these
4	Range of $3 \sin x$ is _____	A. $[-3, 3]$ B. $[-1, 1]$ C. $\mathbb{R}$ D. None of these
5	Range of $2 \tan x$ is _____	A. $[-2, 2]$ B. $-1 \leq x \leq 1$ C. $\mathbb{R}$ D. None of these
6	Domain of $2 \cos x$ is _____	A. $[-2, 2]$ B. $\mathbb{R}$ C. Negative real numbers D. None of these
7	Domain of $3 \sin x$ is _____	A. $[-3, 3]$ B. $\mathbb{R}$ C. Positive real numbers D. None of these
8	Question Image	
9	Period of $2 \cos x$ is _____	
10	Period of $3 \sin x$ is _____	
11	Question Image	
12	Question Image	
13	Question Image	
14	Period of $\tan 4x$ is _____	
15	Period of $\cos 2x$ is _____	
16	Period of $\sin 3x$ is _____	
17	Period of $\cot x$ is _____	
18	Period of $\sec x$ is _____	
19	Period of $\operatorname{cosec} x$ is _____	
20	Period of $\tan x$ is _____	
21	Period of $\cos x$ is _____	
22	Period of $\sin x$ is _____	
23	Range of $\cot x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
24	Range of $\tan x$ is _____	A. $[-1, -]$ B. $\mathbb{R}$ C. Negative real numbers

		D. $R - \{x \mid -1 \leq x \leq 1\}$
25	Range of $\sec x$ is _____	A. $[-1, 1]$ B. $R$ C. Negative real numbers D. $R = \{x \mid -1 \leq x \leq 1\}$
26	Range of $\cos x$ is _____	A. $[-1, 1]$ B. $R$ C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$
27	Range of $\operatorname{cosec} x$ is _____	A. $\{-1, 1\}$ B. $R$ C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$
28	Range of $\sin x$ is _____	A. $[-1, 1]$ B. $R$ C. Negative real numbers D. None of these
29	Domain of $\cot x$ is _____	
30	Domain of $\tan x$ is _____	