

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

Sr	Questions	Answers Choice
1	Period of $\tan x$ is _____	
2	Period of $\cos x$ is _____	
3	Period of $\sin x$ is _____	
4	Range of $\cot x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 < x < 1\}$
5	Range of $\tan x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 < x < 1\}$
6	Range of $\sec x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} = \{x \mid -1 < x < 1\}$
7	Range of $\cos x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 < x < 1\}$
8	Range of $\operatorname{cosec} x$ is _____	A. $\{-1, 1\}$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 < x < 1\}$
9	Range of $\sin x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. None of these
10	Domain of $\cot x$ is _____	
11	Domain of $\tan x$ is _____	
12	Domain of $\sec x$ is _____	
13	Domain of $\cos x$ is _____	
14	Domain of $\operatorname{cosec} x$ is _____	
15	Domain of $\sin x$ is _____	
16	graph of trigonometric function $y = \sec x$ does not meet	A. $x$ -axis B. $y$ -axis C. both axis D. None of these
17	graph of sine function is bounded between lines	A. $y \pm 1 = 0$ B. $x \pm 1 = 0$ C. $x \pm y = 0$ D. None of these
18	The number of $x$ -intercepts of $y = \sin x$ in his period	A. 0 B. 1 C. 2 D. 3
19	The period of the trigonometric function $y = \sin x \cos x$ is	A. $2\pi$ B. $\pi$ C. $4\pi$ D. $\pi/2$
20	The period of $\cot 8x$ is	A. $\pi/10$ B. $9\pi/7$ C. $\pi/9$ D. $\pi/8$

- 21 The period of  $\sin x/2 = \cos x/3$  is  
B. 12p  
C. 13p  
D. 7p
- 22 What is the period of  $\sin 2x/3 \cos 4x=?$   
A.  $\pi$   
B.  $2\pi$   
C.  $\pi/2$   
D.  $\pi/3$
- 23 What is the period of  $\tan 4/3 x =?$   
A.  $\pi/4$   
B.  $4\pi/3$   
C.  $7\pi/4$   
D.  $3\pi/4$
- 24 What is the period of  $\cos 6x =?$   
A.  $\pi/2$   
B.  $\pi/3$   
C.  $\pi/4$   
D.  $\pi$
- 25 What is the period of  $6 \sin x=?$   
A.  $\pi$   
B.  $-\pi$   
C.  $\pi/2$   
D.  $2\pi$
- 26 What is the period of  $5 \cot x=?$   
A.  $\pi$   
B.  $-\pi$   
C.  $\pi/2$   
D.  $2\pi$
- 27 The period of the function  $\csc x/4$  is  
A.  $4x$   
B.  $\pi/4$   
C.  $8\pi$   
D.  $\pi/8$
- 28 The range of the tangent function is  
A. all real numbers  
B.  $-1 \leq x \geq 1$   
C. natural number  
D.  $z^{<\sup>+</sup>}$
- 29  $2\pi$  is the period of  
A.  $\sin \square$   
B.  $\tan \square$   
C.  $\cot \square$   
D. all circular function
- 30 Tangent is .....function  
A. Inverse  
B. one-one  
C. in-to  
D. Periodic