

## ECAT Mathematics Chapter 13 Trigonometric Functions and their Graphs

Sr	Questions	Answers Choice
1	Period of $\tan x$ is _____	
2	Domain of $3 \sin x$ is _____	A. [-3, 3] B. R C. Positive real numbers D. None of these
3	Question Image <input style="width: 100%;" type="text"/>	
4	Range of $\tan x$ is _____	A. [-1, -] B. R C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$
5	What is the period of $\sin 2x/3 \cos 4x$ ?	A. $\pi$ B. $2\pi$ C. $\pi/2$ D. $\pi/3$
6	Period of $\operatorname{cosec} x$ is _____	
7	Period of $\sec x$ is _____	
8	Range of $\sin \theta$ is _____	
9	Question Image <input style="width: 100%;" type="text"/>	
10	Range of $\cot x$ is _____	A. [-1, 1] B. R C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$
11	The range of the tangent function is _____	A. all real numbers B. $-1 \leq x \leq 1$ C. natural number D. $z \leq \pi$
12	Domain of tangent function is _____	
13	$\tan(\pi - \theta) =$ _____	A. $-\sin \theta$ B. $-\tan \theta$ C. $-\cos \theta$ D. $-\cot \theta$

14 Tangent is a periodic function and its period is \_\_\_\_\_

text-align: center; background-color: rgb(255, 255, 224);"><i> $\pi$ </i></span>

C. <span style="font-family: &quot;Times New Roman&quot;; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);"><i> $\pi$ </i></span>

D. 4<span style="font-family: &quot;Times New Roman&quot;; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);"><i> $\pi$ </i></span>

15 Question Image

16 Period of Cotangent function is

- A.  $\pi$
- B.  $-\pi$
- C. 0
- D.  $-\pi$

17 Period of  $\cot x$  is \_\_\_\_\_

18 Range of  $\sec \theta$  is

- A.  $Z - \{x \mid -1 \leq x \leq 1\}$
- B.  $W - \{x \mid -1 \leq x \leq 1\}$
- C.  $R - \{x \mid -1 \leq x \leq 1\}$
- D.  $R$

19 Period of  $\cos x$  is \_\_\_\_\_

20 The function sine and Cosine have the closed interval as their range

- A.  $[1, 0]$
- B.  $[-1, 1]$
- C.  $[0, 1]$
- D.  $[-1, 2]$