

## ECAT Pre General Science Mathematics Chapter 13 Trigonometric Functions & Their Graphs Online Test

Sr	Questions	Answers Choice
1	The period of $\cot 8x$ is	A. $\pi/10$ B. $9\pi/7$ C. $\pi/9$ D. $\pi/8$
2	The period of $\sin x/2 = \cos x/3$ is	A. $2p$ B. $12p$ C. $13p$ D. $7p$
3	What is the period of $\sin 2x/3 \cos 4x=?$	A. $\pi$ B. $2\pi$ C. $\pi/2$ D. $\pi/3$
4	What is the period of $\tan 4/3 x=?$	A. $\pi/4$ B. $4\pi/3$ C. $7\pi/4$ D. $3\pi/4$
5	What is the period of $\cos 6x=?$	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. $\pi$
6	What is the period of $6 \sin x=?$	A. $\pi$ B. $-\pi$ C. $\pi/2$ D. $2\pi$
7	What is the period of $5 \cot x=?$	A. $\pi$ B. $-\pi$ C. $\pi/2$ D. $2\pi$
8	The period of the function $\csc x/4$ is	A. $4x$ B. $\pi/4$ C. $8\pi$ D. $\pi/8$
9	The range of the tangent function is	A. all real numbers B. $-1 \leq x \geq 1$ C. natural number D. $z^{<\sup>}+</sup>$
10	$2\pi$ is the period of	A. $\sin \square$ B. $\tan \square$ C. $\cot \square$ D. all circular function
11	Tangent is .....function	A. Inverse B. one-one C. in-to D. Periodic
12	The period of $3 \sin x$ is	A. $2\pi$ B. $9\pi$ C. $3\pi$ D. $5\pi$
13	The period of $\cos(7x-5)$ is	A. $\pi/7$ B. $7\pi/2$ C. $\pi/2$ D. $2\pi/7$
14	The period of $ \sin 2x $ is	A. $\pi/2$ B. $-\pi/2$ C. $\pi$ D. $\pi/3$
15	The period of $ \sin 2x $ is	A. $\pi/2$ B. $-\pi/2$ C. $\pi$ D. $\pi/3$

- 16 The period of  $2 \cos x$  is  
 A.  $3\pi$   
 B.  $7\pi$   
 C.  $5\pi$   
 D.  $2\pi$
- 
- 17 The period of  $\tan x/7$  is  
 A.  $3\pi$   
 B.  $7\pi$   
 C.  $15\pi$   
 D.  $5\pi$
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- 18 Sine is a periodic function and its period is \_\_\_\_\_  
 A. 2  
 B. s  
 C. 2  
 D. 

4*π*
- 
- 19 Tangent is a periodic function and its period is \_\_\_\_\_  
 A. 2  
 B. 3  
 C. 4  
 D. 2
- 
- 20 The period of  $\tan [x/3]$  is \_\_\_\_\_  
 A. 2  
 B. 

4*π*

  
 C. 

3*π*

  
 D. 5
- 
- 21 The period of cosec  $10x$  is \_\_\_\_\_  
 A. - sin  
 B. - tan

22  $\tan(\pi - \theta) = \underline{\hspace{2cm}}$

- C.  $-\cos\theta$   
D.  $-\cot\theta$

23 The Domain of  $y = \sin x$  is  $\underline{\hspace{2cm}}$

- A. Set of real numbers  
B. Rational  
C. Irrational no.  
D. None of above

24 The range of  $y = \sin x$  is  $\underline{\hspace{2cm}}$

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

25 Domain of  $y = \cot x = \underline{\hspace{2cm}}$

- A.  $(-\infty, \infty)$   
B.  $(-\infty, \infty)$   
C.  $(-\infty, \infty)$   
D.  $(-\infty, \infty)$

26 The range of  $y = \cot x = \underline{\hspace{2cm}}$

- D. None of above

27 Domain of tangent function is  $\underline{\hspace{2cm}}$

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

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

- A.  $\pi$   
B.  $-\pi$   
C. 0  
D.  $-2\pi$

29 Period of Cotangent function is  $\underline{\hspace{2cm}}$

- A.  $0^\circ$   
B.  $360^\circ$

- 34); font-family: &quot;Times New Roman&quot;; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);">*><i>π</i>*
- C. *><i>π</i>*
- D. 2*><i>π</i>*