

ECAT Mathematics Chapter 13 Trigonometric Functions & Their Graphs

| 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 | Period of $3 \sin x$ is _____ | |
| 3 | Period of $\cos 2x$ is _____ | |
| 4 | The period of $\cot 8x$ is | A. $\pi/10$ B. $9\pi/7$ C. $\pi/9$ D. $\pi/8$ |
| 5 | Domain of tangent function is | |
| 6 | Range of $\tan x$ is _____ | A. [-1, -] B. R C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$ |
| 7 | Tangent isfunction | A. Inverse B. one-one C. in-to D. Periodic |
| 8 | Range of $3 \cot x$ is _____ | A. [-1, 1] B. [-3, 3] C. R D. None of these |
| 9 | Range of $\cot \theta$ is | A. (+∞ to $-\infty$) B. (-1 to +1) C. (-5 to +5) D. Set of even numbers only |
| 10 | The number of x-intercepts of $y = \sin x$ in his period | A. 0 B. 1 C. 2 D. 3 |
| 11 | The period of $\cos(7x-5)$ is | A. $\pi/7$ B. $7\pi/2$ C. $\pi/2$ D. $2\pi/7$ |
| 12 | The period of $\tan x/7$ is | A. 3π B. 7π C. 15π D. 5π |
| 13 | Range of $3 \sin x$ is _____ | A. [-3, 3] B. [-1, 1] C. R D. None of these |
| 14 | Question Image <input style="width: 100%;" type="text"/> | |
| 15 | Question Image <input style="width: 100%;" type="text"/> | |
| 16 | Period of $\tan x$ is _____ | |
| 17 | Question Image <input style="width: 100%;" type="text"/> | |

18 The range of $y = \cot x =$ _____

A. $-\infty < y < \infty$
B. $y > x$

C. $y < x$
D. None of above

19 Period of Tangent function is

A. 0°
B. π
C. π
D. 2π

20 Domain of $\sin x$ is _____