

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	$p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree	A. 1 B. 2 C. 3 D. 4
2	Derivative of $\sin x$ w.r.t. $\sin x$ is	A. 0 B. 1 C. $\sin x$ D. $\cos x$
3	Question Image	
4	Question Image	
5	The symbol _____ shall be used both for equation and identity	A. $$\equiv$$
6	If $z_1 = 1 + 2i$, $z_2 = 3 + 4i$ then	A. $z_1 > z_2$ B. $z_1 \neq z_2$ C. $z_1 \leq z_2$ D. None of these
7	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
8	The roots of the equations will be equal if $b^2 - 4ac$ is	A. Positive B. Negative C. 1 D. Zero
9	Which of the following is a vector	A. length B. momentum C. volume D. speed
10	Question Image	
11	If $f(x) = x^2$ then $f(2)$ is	A. -2 B. 2 C. 4 D. -4
12	$(a^{-1})^{-1} =$	A. a^{-1} B. a C. -a D. None of above
13	$\tan 3x \tan 2x - \tan x$ is equal to	A. $\tan x \tan 2x \tan 3x$ B. $-\tan x \tan 2x \tan 3x$ C. $\tan x \tan 2x - \tan x \tan 3x - \tan 2x \tan 3x$ D. None of these
14	$\sin(\pi/2 + \theta) =$ _____;	A. $\sin \theta$ B. $\cos \theta$ C. $-\sin \theta$ D. $-\cos \theta$
15	Question Image	
16	What is the period of $\tan \frac{4}{3} x = ?$	A. $\pi/4$ B. $4\pi/3$ C. $7\pi/4$ D. $3\pi/4$
17	Question Image	
18	$x = 1$ is in the solution of the inequality	A. $x + 1 > 0$ B. $x - 2 > 0$

18 $x = 1$ is in the solution of the inequality

- C. $3x - 1 \leq 0$
- D. $x + 2 \leq 0$

19 If $a > b$ or $a < b$ than $a = b$ is a

- A. Additive property
- B. Transitive property
- C. Trichotomy property of inequality

20 $x = 0$ is in the solution of the inequality

- A. $x \geq 0$
- B. $3x + 4 \leq 0$
- C. $x + 3 \leq 0$
- D. $x - 2 \leq 0$