

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	The area under the curve $y = 1/x^2$ between $x = 1$ and $x = 4$ is:	A. -25 B. 0.75 C. -0.35 D. -10
2	Fundamental law is	
3	Which of the following has the same value as i^{113} ?	A. i B. -1 C. -i D. 1
4	$f(x) = ax + b$ will be a constant function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
5	$w^4 =$ _____	A. 0 B. 1 C. w D. w^{2^2}
6	Question Image	
7	Question Image	A. $2x \cos x^2$ B. $2\sin x \cos x$ C. $-\sin x^2$ D. $2x \sin x^2$
8	Question Image	
9	Question Image	A. Closure law of addition B. Associative law of addition C. Additive inverse D. Additive identity
10	The set of positive integers, 0 and negative integers is known as the set of	A. Natural numbers B. Rational numbers C. All integers D. Irrational numbers
11	If $\cos 20^\circ = K$ and $\cos x = 2K^2 - 1$, then the possible values of x between 0° and 360° are	A. 140° B. 50° and 140° C. 50° and 130° D. 40° and 320°
12	The set $\{-1, 1\}$ is	A. Group under the multiplication B. Group under addition C. Does not form a group D. Contains no identity element
13	Question Image	A. xy B. y C. 0 D. x
14	Question Image	
15	Question Image	A. image B. pre-image C. constant D. none of these
16	A function from A to B is denoted by	A. $f: A \rightarrow B$ B. $f: B \rightarrow A$ C. $f: \rightarrow A : B$ D. $f \rightarrow A \rightarrow B$
17	If $f(x) = x^2 - x$ then $f(0)$ is	A. 0 B. 1 C. 2 D. 3
18	Which conjunction is not true ?	
19	Question Image	

