

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	The 60th part of one minute is called	A. Degree B. Second C. Radiam D. None of these
2	$f(x) = \sin x + \cos^2 x \text{ is}$	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
3	Question Image	
4	No term of a geometric sequence can be	A. 0 B. 1 C. 2 D. 3
5	If one root of the equation x^2 - $3x + a = 0$ is 2 then $a =$	A. 0 B. 1 C. 2 D. 3
6	(ABC)' =	A. CBA' B. CBA C. C'B'A D. C'B'A'
7	The set {1,-1, i, -i} form a group under	A. Addition B. Multiplication C. Subtraction D. None
8	Which of the following statement is true?	A. A set is a collection of non-empty object B. A set is a collection of only numbers C. a set is any collection of things D. a set is well-defined collection of objects
9	Period of cos 2x is	
10	How many different 5-digit even numbers are possible form digit 1,2,4,6,8	A. 4:4! B. 4! C. 5! D. 4!+4!
11	If five triangles are constructed having sides of the lengths indicated below, the triangle that will NOT be a right triangle is	A. 8, 15, 17 B. 3, 4, 5 C. 12, 15, 18 D. 5, 12, 13
12	If a,b,c are three non-coplanar vector then [a +b,b +c,c +a] =	A. [a.b.c] B. 2[a,b,c] C. [abc]-2 D. 2[abc]2
13	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circleB. P is inside the circleC. P is outside the circleD. none of these
14	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
15	If S is a sample space and event set $E = \Phi$ then $P(E)$ is	A. >0 B. 1 C. <1 D. 0
16	Question Image	A. Associative property of addition B. Commutative property of addition C. Distributive property

D. Additive identity
A. One B. Two C. Three D. Four
A. 1/2 B. 1/6 C. 1/3 D. 2
A. Proper fraction B. Polynomial C. mixed form