

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
2	The set of all positive even integers is	A. Not a group B. A group w.r.t subtraction C. A group w.r.t division D. A group w.r.t multiplication
3	Question Image	
4	Question Image	D. none of these
5	Question Image	
6	The curve $f(x,y) = 0$ has a central symmetry if	A. $f(-x,-y)=f(x,y)$ B. $f(x,-y)=f(x,y)$ C. $f(-x,y)=f(x,y)$ D. $f(-x,-y)\neq f(x,y)$
7	$\tan h x =$ _____	
8	For any equilateral $\triangle R : \triangle r_1 : \triangle r_2 : \triangle r_3 =$	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1 :2 :2 :2
9	If the intersection of two sets is non-empty, but either is a subset of other are called	A. Disjoint sets B. Over lapping C. Equal sets D. None of these
10	The slope of y-axis is	A. 0 B. undefined C. 1
11	Which of the following sets is infinite	A. The set of students of your class B. The set of all schools in Pakistan C. The set of natural numbers between 3 and 10 D. The set of rational numbers between 3 and 10
12	Question Image	A. $\cos 2x = \sin 4y$ B. $\cos 4y = \cos 2x$ C. $\cos 3y = \sin 4x$ D. None of these
13	By expressing $\cos 113^\circ$ in terms of trigonometrical ratios, answer will be	A. $\cos 76^\circ = -0.7093$ B. $\cos 65^\circ = -0.4258$ C. $\cos 67^\circ = -0.3907$ D. $\cos 62^\circ = -0.8520$
14	The point of concurrency of the angle bisectors of a triangle is called	A. incentre B. circumcentre C. e-centre D. centroid
15	1 is not	A. Real number B. Natural number C. Prime Number D. Whole Number
16	Question Image	
17	The equation of the normal to the circle $x^2 + y^2 = 25$ at (4, 3) is	A. $3x - 4y = 0$ B. $3x - 4y = 5$ C. $4x + 3y = 5$ D. $4x + 3y = 25$

18 Question Image

19 Question Image

- A. $P(A) + P(B)$
- B. $P(A) - P(B)$
- C. $P(A) \cdot P(B)$
- D. $P(A) / P(B)$

20 Question Image

- A. $-2x^{>3}$
- B. $2x^{>-3}$
- C. $-2x^{>-3}$
- D. $2x^{>3}$