

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	The angle between lines $xy = 0$ is	A. 45° B. 60° C. 90° D. 180°
2	Question Image	
3	In a school, there are 150 students. Out of these 80 students enrolled for mathematics class, 50 enrolled for English class, and 60 enrolled for Physics class. The students enrolled for English cannot any other class, but the students of mathematics and Physics can take two courses at a time. Find the number of students who have taken both physics and mathematics	A. 40 B. 30 C. 50 D. 20
4	$w^7 = \frac{1}{w^3}$	A. 0 B. 1 C. w D. $w^{\frac{10}{3}}$
5	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!
6	For an arithmetic series to be convergent it is necessary that the series has	A. Finite terms B. $d \neq 0$ C. Infinite terms D. None of these
7	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
8	Question Image	A. A parabola B. An ellipse C. A hyperbola D. A circle
9	If (2, 3) is the mid point of (a, 3) and (5, b) then	A. a = 1 , b = -3 B. a = -1 , b = 3 C. a = 1 , b = 3 D. a = -1 , b = -3
10	The nth term of a G.P. is	A. $a \cdot r^{n-1}$ B. $a \cdot r^{n+1}$ C. $a \cdot r^{n-1}$ D. $a \cdot r^{n-1}$
11	The central angle of an arc of a circle whose length is equal to the radius of the circle is called the	A. degree B. radian C. minute D. second
12	i is equal	A. (1 , 0) B. (0 , 1) C. (1 , 1) D. (0 , 0)
13	$\forall a \in \mathbb{R} \exists o \in \mathbb{R}$ such that $a + v = 0 + a = a$ is property of	A. Commutative law of addition B. Associative law of addition C. Additive identity D. Additive inverse
14	A circle passing through the vertices of any triangle is called _____	A. In circle B. Circum circle C. Escribed circle D. None of these
15	(1, 2) is in the solution of the inequality	A. $2x + y \geq 8$ B. $2x + y \leq 6$ C. $2x - y \geq 1$ D. $2x + 3y \leq 2$

16	The number of subsets of a set having three elements is	B. 6 C. 8 D. none of these
17	An unbiased die is thrown. Then the probability of getting a prime is	A. 1/2 B. 2/3 C. 3/4 D. None of these
18	Question Image	
19	An A.P., a G.P. and a H.P. have the same first and last terms and the same odd numbers of terms, the middle terms of the three series are in	A. A.P. B. G.P. C. H.P. D. None of these
20	The distance between the points A(3,1) and B(-2,-4) is	A. 5 C. 25 D. 10