

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	The number of points of intersection of two curves $y = 2 \sin x$ and $y = 5x^2 + 2x + 3$ is	A. 0 B. 1 C. 2 D. None of these
2	Question Image	A. An expression B. Rational fraction C. Equation D. Identity
3	A right angle is the angle of measure	A. 90' B. 60° C. 60" D. 90°
4	Question Image	
5	Question Image	D. None of these
6	The vertex of the parabola $(x \sin a - y \cos a)^2 = 4a(x \cos a + y \sin a)$ lies at	A. $(\cos a, \sin a)$ B. $(a, 0)$ C. $(\cos a, \sin a)$ D. $(0, 0)$
7	Question Image	
8	In an A.P, $a + (n-a)d$ is	A. 1st term B. General term C. Last term D. None of these
9	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
10	Question Image	A. -1 B. 0 C. 2 D. 1
11	Number of lines passing through three non-collinear points is	A. 2 B. 3 C. 1 D. 0 E. ∞
12	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these
13	If C is the mid point of AB and P is any point outside AB, then	
14	In-radius is denoted by	A. r B. η C. r2 D. R
15	$5x^3 + 3x -$ is a _____	A. Polynomial of degree 3 B. Polynomial of degree 2 C. Polynomial of degree 1 D. Polynomial of degree 0
16	Question Image	
17	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
18	The identity element of a set X with respect to intersection in $P(X)$ is	A. X B. Does not exist C. ∅ D. None of these

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Question Image

- A. Only one real solution
- B. Exactly three real solution
- C. Exactly one rational solution
- D. Non-real roots

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Question Image