

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	The velocity of a particle moving along a straight line is given by $v = 3t + t^2$. The acceleration of the particle after 4 seconds from the start is	A. 4 B. 11 C. 26 D. None
2	A conditional "if p then q" is denoted by	
3	For any set B, $B \cup B'$ is	A. Is set B B. Set B' C. Universal set
4	Question Image	
5	The sum of the squares of three distinct real numbers, which are in G.P., is S^2 . if their sum is $\frac{1}{S}$ then	
6	Question Image	A. 0 B. -1 C. 1
7	The sum of indicated terms of a sequence is called	A. Arithmetic series B. Series C. Harmonic series D. None of these
8	$\sin 3a =$ _____;	A. $3\sin a - 4\sin^3 a$ B. $4\sin a - 3\sin^3 a$ C. $3\cos^3 a - \cos a$ D. $4\cos^3 a - 3\cos a$
9	If p and q are two statements then their biconditional 'p if q' is denoted by	
10	Question Image	D. none of these
11	If the trace of matrix A is 5, then the trace of the matrix 3A is	A. 3/5 B. 5/3 C. 8 D. 15
12	Union of the sets of rational and irrational numbers is called 6th set of	A. Natural numbers B. Real numbers C. Whole numbers D. Prime numbers
13	$n!/(n-1)! =$	A. n B. n! C. (n-1)! D. 0!
14	One minute is denoted by	A. $1 ⁰$ B. 1' C. 1" D. None of these
15	Number of selections of n different things out of n	A. 1 B. nPr C. n! D. nPr
16	Question Image	A. -2 B. -1 C. 1 D. 2
17	Question Image	
18	Write down the power set of {9, 11}	
19	A circle which touches one side of a triangle externally and the other two sides produced is called _____	A. In-circle B. Circum circle C. Escribed circle D. None of these

- A. Series
 - B. Function
 - C. progressions
 - D. Elements
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