

Mathematics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	Arithmetic mean between $x - 3$ and $x + 5$ is	A. $x + 1$ B. $x + 2$ C. $x + 3$ D. $x + 4$
2	Question Image	
3	Question Image	
4	Question Image	
5	Question Image	
6	Sum of first n terms of an arithmetic series is	
7	The n numbers $A_1, A_2, A_3, \dots, A_n$ are called an arithmetic means between a and b if $a, A_1, A_2, A_3, \dots, A_n, b$ is _____	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence
8	Question Image	
9	Question Image	
10	Question Image	A. $2x \cos x^2$ B. $2 \sin x \cos x$ C. $-\sin x^2$ D. $2x \sin x^2$
11	Arithmetic mean between a and b is	
12	Question Image	A. $2x \cos x^2$ B. $-2x \cos x \sin x$ C. $2x \sin x^2$ D. $-\sin x^2$
13	Question Image	A. $3/4$ B. $-3/4$ C. $4/3$ D. $-4/3$
14	$-2, 1, 4, 7, \dots$ is _____	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
15	The difference of two consecutive terms of an A.P. is called _____	A. General term B. Common ratio C. Common difference D. None of these
16	Question Image	
17	The general term of the A.P. is	A. $a + (n - 1)d$ B. $n + (a - 1)d$ C. $d + (n - 1)a$ D. None of these
18	Question Image	
19	The general term of a sequence is denoted by	A. a_n B. s_n C. n D. s_n
20	Question Image	
21	Find the next two terms of $7, 9, 12, 16, \dots$	A. 18, 20 B. 19, 22 C. 20, 25 D. 21, 27
22	Question Image	

23	Question Image	
24	Question Image	
25	Question Image	
26	If $a_n = 2n - 3$, write the first four terms	A. -3, -1, 1, 3 B. 1, 3, 5, 7 C. -1, 1, 3, 5 D. None of these
27	A function whose domain is a subset of natural numbers is called _____	A. Identity function B. Sequence C. Onto function D. Series
28	Question Image	
29	An equation which holds good for all values of variables is called	A. Equation B. Conditional equation C. Constant D. None
30	How many types of an equation	A. 1 B. 3 C. 2 D. None