



## ECAT Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	The seventh term of an A.P whose first term is P and common difference is q. is	A. $P-6q$ B. $P+6q$ C. $P-4q$ D. $P-nq$
2		A. A.P. B. G.P. C. H.P. D. None of these
3	A number A is called the arithmetic mean between a and b if a, A, b is _____	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
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5	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
6	The sum of first twenty odd integers in A.P is	A. 400 B. 397 C. 404 D. 408
7	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
8	The fifth term of the sequence $a_n = 2n + 3$ is _____	A. 13 B. -13 C. 8 D. 3
9	Given two numbers a and b. Let A denote the single A.M. between these and S denote the sum of n A.M.'s between them. Then S/A depends upon	A. n, a, b B. n, a C. n, b D. n
10	$1, 1/3, 1/5, 1/7, 1/9, \dots$ is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
11	If 6th term of a series in A.P, is -2 and 8th term is -8, the first term of the serie is	A. 13 B. -13 C. 18 D. -10
12	In an A.P, $a + (n-a)d$ is	A. 1st term B. General term C. Last term D. None of these
13	3, 6, 12,..... is	A. A.P B. G.P. C. H.P. D. None of these
14	If P, Q, R be the A.M., G.M., H.M. respectively between any two rational numbers a and b, then $P - Q$ is	
15	An indicated sum of terms of a sequence is represented by	A. $S_n$ B. an C. $S(n)$ D. $\{S_n\}$
16	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th

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17	The third term of a G.P. is the square of first term. If the second term is 8, then the 6th term is	A. 120 B. 124 C. 128 D. 132
18	Let $S_n$ denote the sum of the first $n$ terms of an A.P. If $S_{2n} = 3 S_n$ : $S_n$ is equal to	A. 4 B. 6 C. 8 D. 10
19	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
20	H.M. between 3 and 7 is	

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