

ECAT Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	The next term of the sequence 1, 2, 4, 7, 11, is.	A. 15 B. 16 C. 17 D. 18
2	Arithmetic mean between a and b is	
3	The sum of the squares of three distinct real numbers, which are in G.P., is S^2 . if their sum is αS then	
4	A function whose domain is a subset of natural numbers is called _____	A. Identity function B. Sequence C. Onto function D. Series
5	Question Image <input style="width: 400px; height: 20px;" type="text"/>	A. 1/2 B. 2 C. 1/4 D. 4
6	If A is such that a,A,B are in A.P then A is called	A. A.M B. Common ratio C. Common difference D. None of these
7	Let a_1, a_2, a_3, a_4 and a_5 be such that $a_1, a_2,$ and a_3 are in A.P., a_2, a_3 and a_4 are in G.P and a_3, a_4 and a_5 are in H.P. Then, a_1, a_3 and a_5 are in	A. G.P. B. A.P. C. H.P. D. None of these
8	If G is a G.M between a and b then a,G,b are in	A. A.P B. H.P C. G.P D. None of these
9	If a_1, r and a_n are the first term, common ratio and the nth term respectively of a G. P. then $a_n =$	A. $a ₁ r ⁿ$ B. $a ₁ r ⁿ⁻¹$ C. $a ₁ r ⁿ⁺¹$ D. $a ₁ r$
10	No term of a geometric sequence can be	A. 0 B. 1 C. 2 D. 3
11	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
12	If all members of a sequence are real numbers then it is called a	A. Series B. Function C. Real sequence D. Range
13	The element range of sequence are called	A. Series B. progression C. Members D. Terms
14	The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is	A. 18 B. 6 C. 3 D. 0
15	-2, 1, 4, 7,..... is _____	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
16	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3

17	An infinite arithmetic series is always	A. Convergent B. Oscillatory C. Divergent D. None of these
18	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
19	A sequence having no last term is called	A. arithmetic sequence B. Geometric sequence C. Finite sequence D. Infinite sequence
20	H.M. between 3 and 7 is	