

ECAT Mathematics Chapter 8 Sequences and Series


Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 12 B. 13 C. 14 D. 15
2	Sum of first n terms of an arithmetic series is	
3	If $a^x = b^y = c^z$ and a, b, c are in G.P. then x, y, z are in	A. A.P. B. G.P. C. H.P. D. None of these
4	If S_r denotes the sum of the first r terms of a G.P., then $S_n, S_{2n} - S_n, S_{3n} - S_{2n}$ are in	A. A.P. B. G.P. C. H.P. D. None of these
5	If the pth, qth, and rth terms of an A.P. are in G.P., then the common ratio of the G.P. is	
6	An indicated sum of terms of a sequence is represented by	A. S_n B. a_n C. $S(n)$ D. $\{S_n\}$
7	For an A.P common difference d	A. Can be zero B. May or may not zero C. Cannot be zero D. None of these
8	A sequence whose reciprocal is an A.P is called	A. Oscillator B. H.P. C. G.P. D. None of these
9	The sum of first twenty odd integers in A.P is	A. 400 B. 397 C. 404 D. 408
10	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
11	The general term of a sequence is denoted by	A. $a_{<n>1}</sub>$ B. $a_{<n>n}</sub>$ C. n D. $s_{<n>n}</sub>$
12	How many numbers are there between 103 and 750 which are divisible by 6	A. 125 B. 107 C. 108 D. 113
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	Which one represents a sequence	A. an B. S_n C. $a(n)$ D. $\{a_n\}$
15	If 5,7 and 9 are A.Ms between a and b, then a and b is equal to	A. 2 and 12 B. 1 and 10 C. 3 and 11 D. -7 and 2
16	The harmonic mean between a and b is	
17	For three consecutive terms in A.P middle term is called	A. A.M B. nth term C. Central term D. None of these
		A. 43

18 The third term of a G.P. is 4, The product of first five terms is

- B. 45
- C. 46
- D. None of these

19 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

20 

- A. 15/23
- B. 7/15
- C. 7/8
- D. 15/7