




ECAT Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	The A.M. of two numbers is 34 and G.M. is 16, the numbers are	A. 2 and 64 B. 64 and 3 C. 64 and 4 D. None of these
2	A sequence having no last term is called	A. arithmetic sequence B. Geometric sequence C. Finite sequence D. Infinite sequence
3	If a_1 , r and a_n are the first term, common ratio and the n th 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. $a ₁ r$
4	Arithmetic mean between $x - 3$ and $x + 5$ is	A. $x + 1$ B. $x + 2$ C. $x + 3$ D. $x + 4$
5	The harmonic mean between a and b is	
6	Find the geometric mean between 4 and 16	
7	an $-a_{n-1}, \forall n \in \mathbb{N} \wedge n > 1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
8	Every term of a G.P. is positive and also every term is the sum of two preceding terms. Then the common ratio of the G.P. is	
9	Find the next two terms of 7, 9, 12, 16,...	A. 18, 20 B. 19, 22 C. 20, 25 D. 21, 27
10	The sum of n terms of a series is denoted by	A. d B. n C. $S _n$ D. $a _n$
11	If a, b, c, d, e, f are in A.P., then $e - c$ is equal to	A. $2(c - a)$ B. $2(f - d)$ C. $2(d - c)$ D. $d - c$
12	Sequence also called.....	A. Series B. Function C. progressions D. Elements
13	The difference of two consecutive terms of an A.P is called the	A. Common difference B. Common ratio C. Geometric series D. Geometric mean
14		
15		A. $2 ² - n - 1$ B. $1 - 2 ⁻ⁿ$ C. $n + 2 ⁻ⁿ$ D. $2 ⁿ - 1$
16	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. $P - nq$
17	Let the sequence 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8, 8, 8, where n consecutive terms have the value n , then 1025th term is	A. $2 ⁹$ B. $2 ¹⁰$ C. $2 ¹¹$ D. $2 ⁸$

- 18 if $a_1 = 3$, $d = 7$ and $a_n = 59$, then the number of terms in A.P is
- A. 7
B. 9
C. 11
D. 13
-
- 19 
- A. 2
B. $-\frac{3}{2}$
C. 1
D. 0
-
- 20 How many numbers are there between 103 and 750 which are divisible by 6
- A. 125
B. 107
C. 108
D. 113