

ECAT Pre General Science Mathematics Chapter 8 Sequences and Series Online Test

Sr	Questions	Answers Choice
SI	QUESIIONS	A. A.P
1	If all members of a sequence are real numbers then it is called	B. Real Sequence C. G.P D. None of these
2	3, 6, 12, is	A. A.P B. G.P. C. H.P. D. None of these
3	If a _n = 2n -3, write the first four terms	A3, -1, 1, 3 B. 1, 3, 5, 7 C1, 1, 3, 5 D. None of these
4	If $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$ (n > 2), then a_5 is	A. 1 B. 0 C1 D2
_	Overtice because	A. 1, 1/2, 0 B. 1, 2, 1
5	Question Image	C. 1, 2, 3 D. 1, 2, 0
6	An indicated sum of terms of a sequence is represented by	A. Sn B. an C. S(n) D. {Sn}
7	-2, 1, 4, 7, is	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
8	A number H is said to be the H.M. between a and b if a, H, b are in	A. A.P. B. G. P. C. H. P. D. None of these
9	The5thand 13th terms of an A.P are 5 and-3 respectively The first term of the A.P is	A. 1 B15 C. 9 D. 2
10	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
11	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
12	If a_1 and r are the first term and the common ratio respectively then $(n + 1)$ th term of the G.P. is	A. 0 B. a ₁ r ⁿ⁻¹ C. a ₁ r ⁿ⁺¹ D. a ₁ r ⁿ⁻¹
13	If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is	
14	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
15	The fifth term of an A.P. Whose first term is 5 and common difference is 3,is	A. 20 B. 17 C. 25 D. 30
16	The consecutive terms of a progressions are 30, 24, 20. The next term of the progression is	

17	A sequence of number whose reciprocals form an arithmetic sequence is called	B. Arithmetic series C. Harmonic sequence D. Harmonic series
18	The 7th term of the A.P 7,11,15,is	A. 24 B. 31 C. 26 D. 23
19	The third term of the sequence $a_n = (-1)^{n-1}(n-7)$ is	A. 8 B. 4 C4 D. 8
20	The nth term of a G.P. is	A. a ₁ r ⁿ B. a ₁ r ⁿ⁺¹ C. a ₁ r ⁿ⁻¹ D. a ₁ r ⁻ⁿ