

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

Sr	Questions	Answers Choice
1	Write the first four terms of the arithmetic sequence 5, 2, -1, is	A. 3 B4 C. 7 D. 1
2	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
3	Question Image	A. an A.P. B. a G.P. C. a H.P. D. None of these
4	Question Image	A. 2 B3/2 C. 1 D. 0
5	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
6	A number A is said to be the A.M between the two numbers a and b if a, A, b are in	A. A.M B. A.P C. G.P D. G.M
7	If A, G, H are the arithmetic, geometric and harmonic means between a and b respectively then A, G, H are in	A. A. P. B. G. P. C. H. P. D. None of these
8	The sum of first 60 natural numbers is	A. 1830 B. 3660 C. 1640 D. 1770
9	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 D7 and 2
10	The sum of an indicated number of terms in a sequence is called	A. sequence B. progression C. Series D. Mean
11	If a, b, c are in A.P., then 3 ^a , 3 ^b , 3 ^c are in	A. A.P. B. G.P. C. H.P. D. None of these
12	Question Image	
13	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
14	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2 , q^2 , b^2 are in	A. A.P. B. G.P. C. H.P. D. None of these
15	The sum of indicated terms of a sequence is called	A. Arithmetic series B. Series C. Harmonic series D. None of these
16	The general term of a sequence is denoted by	A. a ₁ B. a _n C. n D. s _n

7	pth term of an H.P. is qr and qth term is pr then the rth term of the H.P. is	A. pqr B. 1 C. pq D. pqr ²
8	No term of a geometric sequence can be	A. 0 B. 1 C. 2 D. 3
9	The next term of the sequence 1, 2, 4, 7, 11, is.	A. 15 B. 16 C. 17 D. 18
0	The sixth term of the sequence 1,3,12,60is	A. 1500 B. 72 C. 2160 D. 2520