

Mathematics ECAT Pre Engineering Chapter 8 Sequences and Series Online Test

Sr	Questions	Answers Choice
1	A,G,H are in	A. A.P B. G.P C. H.P D. None of these
2	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
3	1,1/3,1/5,1/7,1/9..... is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
4	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
5	The harmonic mean between a and b is	
6	If x, y, z are the pth, qth, rth terms of an A.P. and also of G.P., then $x^{y-z} \cdot y^{z-x} \cdot z^{x-y}$ equals	A. xyz B. 0 C. 1 D. None of these
7	The 26th term of the A.P -2,-4,10,.....is	A. 136 B. -136 C. 148 D. -148
8	Question Image	A. 12 B. 13 C. 14 D. 15
9	If x,y are two positive distinct numbers then	A. $A \geq G \geq H$ B. $A \leq G \leq H$ C. $A = G = H$ D. None of these
10	-2, 1, 4, 7,.... is _____	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
11	an -an-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
12	For three consecutive terms in A.P middle term is called	A. A.M B. nth term C. Central term D. None of these
13	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
14	The sixth term of the sequence 1,3,12,60....is	A. 1500 B. 72 C. 2160 D. 2520
15	Question Image	
16	A function whose domain is a subset of natural numbers is called _____	A. Identity function B. Sequence C. Onto function D. Series
17	Question Image	

18	A series consisting of an unlimited number of terms is termed as an	A. finite sequence B. Infinite sequence C. ^{Infinite series} D. geometric sequence
19	Sum of first n terms of an arithmetic series is	
20	Question Image	