

Mathematics ECAT Pre Engineering Chapter 8 Sequences and Series Online Test

Sr	Questions	Answers Choice
1	The third term of the sequence $a_n = (-1)^{n-1}(n-7)$ is _____	A. 8 B. 4 C. -4 D. 8
2	The 5th and 13th terms of an A.P are 5 and -3 respectively The first term of the A.P is	A. 1 B. -15 C. 9 D. 2
3	A, G, H are in	A. A.P B. G.P C. H.P D. None of these
4	Which term of the A.P 5, 8, 11, 14, is 320	A. 104th B. 106th C. 105th D. 64th
5	Question Image	A. 12 B. 13 C. 14 D. 15
6	$a_n - a_{n-1}$ will be common difference in an A.P if	A. $n = 1 \forall n \in \mathbb{N}$ B. $n \geq 1 \wedge n \in \mathbb{N}$ C. $n \in \mathbb{Z}$ D. None of the above
7	Question Image	A. 1/2 B. 2 C. 1/4 D. 4
8	If the domain of sequence is finite set then the sequence is called	A. geometric sequence B. infinite sequence C. finite sequence D. arithmetic sequence
9	If a, b, c are in arithmetic progression, then $1/a, 1/b, 1/c$ are in	A. A.M B. G.M C. H.M D. G.P
10	An A.P., a G.P. and a H.P. have the same first and last terms and the same odd numbers of terms, the middle terms of the three series are in	A. A.P. B. G.P. C. H.P. D. None of these
11	A Geometric Series is divergent only if	A. $ r > 1$ B. $ r \geq 1$ C. $ r = 1$ D. None of these
12	$1 + 2 + 3 + \dots + n =$ _____	
13	Question Image	A. 15/23 B. 7/15 C. 7/8 D. 15/7
14	In following question, a number series is given with one term missing. choose the correct alternative that will same pattern and fill in the blank spaces. 1, 4, 9, 16, 25, x	A. 35 B. 36 C. 48 D. 49
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	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
17	The three consecutive numbers $a, \sqrt{ab}, b$ are in	A. G.P B. H.P C. G.M D. None of these
18	Question Image	
19	The element range of sequence are called	A. Series B. progression C. Members D. Terms
20	The sum of all 2 digit number is	A. 4750 B. 3776 C. 4895 D. 4905