

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

Sr	Questions	Answers Choice
1	No term of a harmonic sequence can be	A. 0 B. 1 C. 2 D. 3
2	For an A.P common difference d	A. Can be zero B. May or may not zero C. Cannot be zero D. None of these
3	Question Image	A. 2 ² - n - 1 B. 1 - 2 ⁻ⁿ C. n + 2 ⁻ⁿ -1 D. 2 ⁿ -1
4	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
5	H.M. between 3 and 7 is	
6	If $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$ (n > 2), then a_5 is	A. 1 B. 0 C1 D2
7	Find the geometric mean between 4 and 16	
8	The nth term of an A.P., is 12-4n. Its common difference is	A. 8 B. 4 C. 4 D. 16
9	Sum of n terms of a geometric series if r < 1 is	
10	1 + 2 + 3 + + n =	
11	A Geometric Series is divergent only if	A. r >1 B. r ≥1 C. r =1 D. None of these
12	Question Image	
13	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
14	A function whose domain is a subset of natural numbers is called	A. Identity function B. Sequence C. Onto function D. Series
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 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
17	Question Image	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3 D. 1, 2, 0
18	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

9	If all members of a sequence are real numbers then it is called a	A. Series B. Function C. Real sequence D. Range
20	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