

Mathematics ECAT Pre Engineering Chapter 8 Sequences and Series Online Test

Sr	Questions	Answers Choice
1	An indicated sum of terms of a sequence is represented by	A. Sn B. an C. S(n) D. {Sn}
2	Question Image	
3	The third term of the sequence a _n = (-1) ⁿ⁻¹ (n-7) is	A. 8 B. 4 C4 D. 8
4	The fifth term of the sequence a _n = 2n + 3 is	A. 13 B13 C. 8 D. 3
5	Question Image	A. an A.P. B. a G.P. C. a H.P. D. None of these
6	The harmonic mean between a and b is	
7	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
8	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
9	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
10	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
11	A,G,H are in	A. A.P B. G.P C. H.P D. None of these
12	Find the sum of the infinite geometric series 2 + 1 + 0.5 +	A. 3.5 B. 3 C. 4 D. None of these
13	The 6th term of the sequence 7,9,12,16is	A. 27 B. 32 C. 20 D. 19
14	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
15	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
16	The sum of first twenty odd integers in A.P is	A. 400 B. 397 C. 404 D. 408

17	An infinite arithmetic series is always	A. Convergent B. Oscillatory C. Divergent D. None of these
18	The sum of n terms of a series is denoted by	A. d B. n C. S _n D. a _n
19	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
20	If a_1 = 3, r = 2, then the nth term of the G.P. is	A. 2.3 ⁿ⁻¹ B. 3.2 ⁿ C. 3.2 ⁿ⁺¹ D. 3.2 ⁿ⁻¹