ECAT Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	In an A.P,a +(n-a)d is	A. 1st term B. General term C. Last term D. None of these
2	The sum of n terms of a series is denoted by	A. d B. n C. S_n D. a_n
3	The nth term of a G.P. is	A. a₁rⁿ B. a₁rⁿ⁺¹ C. a₁rⁿ⁻¹ D. a₁r⁻ⁿ
4	Write the first four terms of the sequence if $a_n = (-1)^n n^2$	A. -1, 4, -9, 16 B. 1, -4, 9, 16 C. 1, 4, 9, 16 D. None of these
5	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2 D. 3
6	An infinite arithmetic series is always	A. Convergent B. Oscillatory C. Divergent D. None of these
7	1,1/3,1/5,1/7,1/9..... is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
8	The 6th term of the sequence 7,9,12,16.....is	A. 27 B. 32 C. 20 D. 19
9	Question Image	A. 15/23 B. 7/15 C. 7/8 D. 15/7
10	Which one represents a sequence	A. an B. Sn C. a(n) D. {an}
11	Let S_n denote the sum of the first n terms of an A.P. If $S_{2n} = 3\ S_n$: S_n is equal to	A. 4 B. 6 C. 8 D. 10
12	A sequence of number whose reciprocals form an arithmetic sequence is called	A. Geometric sequence B. Arithmetic series C. Harmonic sequence D. Harmonic series
13	Arithmetic mean between x - 3 and x + 5 is	A. x + 1 B. x + 2 C. x + 3 D. x + 4
14	If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is	
15	An infinite sequence has no	A. nth term B. Last term C. Sum D. None of these
16	Question Image	
17	Question Image	

18	The n numbers $A_1,A_2,A_3,.....A_n$ are called an arithmetic means between a and b if $a.A_1,A_2,A_3.....A_n$, b is _____	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence
19	If a_1, r are first term and the common ratio respectively then the sum of an infinite geometric series is	
20	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th