ECAT Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	For three consecutive terms in A.P middle term is called	A. A.M B. nth term C. Central term D. None of these
2	An infinite sequence has no	A. nth term B. Last term C. Sum D. None of these
3	The 10th common term between the series 3+7+11+..... and 1 + 6 +11 + ... is	A. 191 B. 193 C. 211 D. None of these
4	The sixth term of the sequence 1,3,12,60....is	A. 1500 B. 72 C. 2160 D. 2520
5	The sum of an indicated number of terms in a sequence is called	A. sequence B. progression C. Series D. Mean
6	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 D. -7 and 2
7	Arithmetic mean between a and b is	
8	Question Image	
9	If $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$ $(n > 2)$, then $a_5$is	A. 1 B. 0 C. -1 D. -2
10	The third term of the sequence $a_n = (-1)^{n-1}(n-7)$ is _____	A. 8 B. 4 C. -4 D. 8
11	If a, b, c are in AP., a, b, c are in G.P. then A, m^2b, c are in	A. A.P. B. G.P. C. H.P. D. None of these
12	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
13	an -an-1, $\forall n \in N \wedge n>1$ in an A.P is called	A. Common difference B. nth term C. Common ratio D. None of these
14	99th term of the series 2 + 7 + 14 + 23 + 34 + ... is	A. 9998 B. 9999 C. 10000 D. None of these
15	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th
16	an - an-1 will be common difference in an A.P if	A. n = 1 $\forall n \in$ N B. n>1 $\wedge n \in N$ C. $n \in Z$ D. None of the above

17	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. a₁rⁿ B. a₁rⁿ⁻¹ C. a₁rⁿ⁺¹ D. a₁r
18	1,1/3,1/5,1/7,1/9..... is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
19	The sides of a right angled triangle are in A.P The ratio of sides is	A. 1:2:3 B. 3:4:5 C. 2:3:4 D. 5:8:3
20	Question Image	A. 12 B. 13 C. 14 D. 15