ECAT Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 2 C. 3/2 D. 5/2
2	1,1/3,1/5,1/7,1/9..... is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
3	Question Image	A. 15/23 B. 7/15 C. 7/8 D. 15/7
4	5th term of a G.P. is 2, then the product of first 9 terms is	A. 256 B. 128 C. 512 D. None of these
5	Let a_1, a_2, a_3, $a_4$and $a_5$be such that a_1, a_2, and $a_3$are in A.P., a_2, $a_3$and $a_4$are in G.P and a_3, $a_4$and $a_5$are in H.P. Then, a_1, $a_3$and $a_5$are in	A. G.P. B. A.P. C. H.P. D. None of these
6	if a_9 =19,a9=31 are the 6th and 9th term of an A.P. and d=4 is the common difference, then 18th term of the sequence is	A. 65 B. 67 C. 71 D. 75
7	The element range of sequence are called	A. Series B. progression C. Members D. Terms
8	If x,y are two positive distinct numbers then	A. A>G>H B. A<G<H C. A=G=H D. None of these
9	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
10	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
11	The sum of an infinite geometric series exist if	A. | r | < 1 B. | r | > 1 C. r = 1 D. r = -1
12	Question Image	A. 0 B. 1 C. 2 D. 3
13	Question Image	
14	The difference of two consecutive terms of an A.P. is called _____	A. General term B. Common ratio C. Common difference D. None of these
15	Question Image	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3 D. 1, 2, 0
16	The next term of the sequence 1, 2, 4, 7, 11, ... is.	A. 15 B. 16 C. 17

		D. 18
17	A number H is said to be the H.M. between a and b if a, H, b are in	A. A.P. B. G. P. C. H. P. D. None of these
18	H.M. between 3 and 7 is	
19	An indicated sum of terms of a sequence is represented by	A. Sn B. an C. S(n) D. {Sn}
20	If x, y, z are the pth, qth, rth terms of an A.P. and also of G.P., then x^{y-z}. y^{z-x}. z^{x-y}eqals	A. xyz B. 0 C. 1 D. None of these