ECAT (Pre-Eng) Mathematics Chapter 8 Sequences and Series

Sr	Questions	Answers Choice
1	An infinite arithmetic series is always	A. Convergent B. Oscillatory C. Divergent D. None of these
2	What is the 26th term of the sequence, if its general term is $a_{n} = (-1)^{n+1}$	A. 2 B. 26 C. 27 D. 1
3	The sum of an infinite geometric series exist if	A. | r | < 1 B. | r | > 1 C. r = 1 D. r = -1
4	The 6th term of the sequence 7,9,12,16.....is	A. 27 B. 32 C. 20 D. 19
5	The sum of all 2 digit number is	A. 4750 B. 3776 C. 4895 D. 4905
6	The element range of sequence are called	A. Series B. progression C. Members D. Terms
7	If all members of a sequence are real numbers then it is called a	A. Series B. Function C. Real sequence D. Range
8	The next term of the sequence 1, 2, 4, 7, 11, ... is.	A. 15 B. 16 C. 17 D. 18
9	A series consisting of an unlimited number of terms is termed as an	A. Finite sequence B. Infinite sequence C. ^{Infinite series} D. geometric sequence
10	If x,y are two -ve distinct numbers then	A. A>G>H B. A<G<H C. A=G=H D. None of these
11	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th
12	Every term of a G.P. is positive and also every term is the sum of two preceding terms. Then the common ratio of the G.P. is	
13	In an A.P,a +(n-a)d is	A. 1st term B. General term C. Last term D. None of these
14	If a, b, c are in A.P., then 3^{a}, 3^{b}, $3^{c}$are in	A. A.P. B. G.P. C. H.P. D. None of these
15	If a_{1}, r are first term and the common ratio respectively then the sum of an infinite geometric series is	
16	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
17	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
18	Question Image	A. 1 B. 2 C. 3/2 D. 5/2
19	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
20	If G is a G.M between a and b then a,G,b are in	A. A.P B. H.P C. G.P D. None of these