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

Sr	Questions	Answers Choice
1	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th
2	No term of a geometric sequence can be	A. 0 B. 1 C. 2 D. 3
3	pth term of an H.P. is qr and qth term is pr then the rth term of the H.P. is	A. pqr B. 1 C. pq D. pqr²
4	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
5	If b_1, b_2, b_3, ... are in G.P. with first term unity and common ratio r, then the minimum value of $b_1 - b_3 + b_5$ is equal to	A. 3/4 B. 1/4 C. 1 D. None of these
6	Question Image	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3 D. 1, 2, 0
7	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
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	1,1/3,1/5,1/7,1/9..... is a	A. geometric sequence B. finite sequence C. infinite sequence D. arithmetic series
10	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these
11	If #n = (n-5)2 + 5, then find #3 x #4.	A. 54 B. 12 C. 4 D. 9
12	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
13	How many numbers are there between 103 and 750 which are divisible by 6	A. 125 B. 107 C. 108 D. 113
14	If $a^x = b^y = c^z$ and a, b, c are in G.P. then x, y, z are in	A. A.P. B. G.P. C. H.P. D. None of these
15	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers

16	The 26th term of the A.P -2,-4,10,.....is	A. 136 B. -136 C. 148 D. -148
17	Question Image	
18	The third term of a G.P. is the square of first term. If the second term is 8, then the 6th term is	A. 120 B. 124 C. 128 D. 132
19	Sum of first n terms of an arithmetic series is	
20	An indicated sum of terms of a sequence is represented by	A. Sn B. an C. S(n) D. {Sn}