

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

Sr	Questions	Answers Choice
1	Question Image	
2	An indicated sum of terms of a sequence is represented by	A. S_n B. an C. $S(n)$ D. $\{S_n\}$
3	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	
4	Question Image	A. 2^{n-1} B. $1 - 2^{n-1}$ C. $n + 2^{n-1}$ D. 2^{n-1}
5	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
6	The harmonic mean between a and b is	
7	If a, b, c are in A.P., 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
8	$-2, 1, 4, 7, \dots$ is _____	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
9	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
10	Which one represents a sequence	A. an B. S_n C. $a(n)$ D. $\{an\}$
11	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
12	Find the next two terms of 7, 9, 12, 16,...	A. 18, 20 B. 19, 22 C. 20, 25 D. 21, 27
13	Question Image	
14	Question Image	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3 D. 1, 2, 0
15	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
16	Question Image	
17	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
18	If S_r denotes the sum of the first r terms of a G.P., then $S_n, S_{2n} - S_n, S_{3n} - S_{2n}$ are in	A. A.P. B. G.P. C. H.P. D. ...

D. None of these

19 The sum of all 2 digit number is

- A. 4750
- B. 3776
- C. 4895
- D. 4905

20 $1 + 2 + 3 + \dots + n = \underline{\hspace{2cm}}$