

Mathematics ECAT Pre Engineering Chapter 8 Sequences and Series Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	The nth term of an A.P., is $12-4n$. Its common difference is	A. 8 B. 4 C. 4 D. 16
3	If $a_n = 2n - 3$, write the first four terms	A. -3, -1, 1, 3 B. 1, 3, 5, 7 C. -1, 1, 3, 5 D. None of these
4	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
5	The three consecutive numbers a, $\sqrt{ab}$, b are in	A. G.P B. H.P C. G.M D. None of these
6	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
7	The difference of two consecutive terms of an A.P is called the	A. Common difference B. Common ratio C. Geometric series D. Geometric mean
8	If $\#n = (n-5)2 + 5$, then find $\#3 \times \#4$.	A. 54 B. 12 C. 4 D. 9
9	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
10	The formula $a_n = ar^{n-1}$ represents	A. nth term of G.P B. Sum of the first n terms C. G.M between a and b D. None of these
11	if $a_1 = 3$, $d=7$ and $a_n = 59$, then the number of terms in A.P is	A. 7 B. 9 C. 11 D. 13
12	The element range of sequence are called	A. Series B. progression C. Members D. Terms
13	Arithmetic mean between $x - 3$ and $x + 5$ is	A. $x + 1$ B. $x + 2$ C. $x + 3$ D. $x + 4$
14	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
15	Question Image	A. 12 B. 13 C. 14 D. 15
16	The common ration of a geometric sequence cannot be	A. 0 B. 1 C. 2

D. 3

17	A Geometric Series is divergent only if	A. $ r > 1$ B. $ r \geq 1$ C. $ r = 1$ D. None of these
18	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
19	A number A is said to be the A.M between the two numbers a and b if a, A, b are in	A. A.M B. A.P C. G.P D. G.M
20	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these