

Mathematics ECAT Pre Engineering Chapter 8 Sequences and Series Online Test

| Sr | Questions | Answers Choice |
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| 1 | If a _n = 2n -3, write the first four terms | A3, -1, 1, 3 B. 1, 3, 5, 7 C1, 1, 3, 5 D. None of these |
| 2 | The numbers of G_1 , G_2 , G_3 G_n are called n geometric means between a and b is a, G_1 , G_2 , G_3 , G_n , b are in | A. H.P. B. A.P. C. G.P. D. None of these |
| 3 | 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 |
| 4 | The three consecutive numbers a,√ab,b are in | A. G.P B. H.P C. G.M D. None of these |
| 5 | If #n = (n-5)2 + 5, then find #3 x #4. | A. 54 B. 12 C. 4 D. 9 |
| 6 | The n numbers A_1,A_2,A_3,A_n are called an arithmetic means between a and b if a.A ₁ ,A ₂ ,A ₃ A _n , b is | A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence |
| 7 | If a, b, c, d, e, f are in A.P.,then e-c is equal to | A. 2(c - a) B. 2(f - d) C. 2(d - c) D. d - c |
| 8 | The sum of n terms of a series is denoted by | A. d B. n C. S _n D. a _n |
| 9 | Question Image | |
| 10 | An A.P. consists of n(odd terms) and its middle term is m. then the sum of the A.P. is | A. 2 mn B. 1/2 mn C. mn D. mn ² |
| 11 | Sequence also called | A. Series B. Function C. progressions D. Elements |
| 12 | Let the sequence 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8, 8, 8, 8, where n consecutive terms have the value n, then 1025th term is | A. 2 ⁹ B. 2 ¹⁰ C. 2 ¹¹ D. 2 ⁸ |
| 13 | If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2 , q^2 , b^2 are in | A. A.P. B. G.P. C. H.P. D. None of these |
| 14 | The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is | A. 18 B. 6 C. 3 D. 0 |
| 15 | Question Image | |
| 16 | Which term of the A.P 5,8,11,24is 320 | A. 104th B. 106th C. 105th D. 64th |
| | | AAP |

| 17 | Question Image | B. G.P. C. H.P. D. None of these |
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| 18 | Given two numbers a and b. Let A denote the single A.M. between these and S denote the sum of n A.M.'s between them. Then S/A depends upon | A. n, a, b B. n, a C. n, b D. n |
| 19 | Arithmetic mean between x - 3 and x + 5 is | A. x+1 B. x+2 C. x+3 D. x+4 |
| 20 | If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is | |