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ONLINE TEST-08, (30-04-2020)  **MATHEMATICS TOPIC**:  **SEQUENCE AND SERIES**

1. If the  term of an A.P. be  and term be *p*, then its  term will be

(a)  (b) 

(c)  (d) 

1.  term of the series  will be

(a)  (b) 

(c)  (d) 

1. The sum of 24 terms of the following series  is

(a) 300 (b) 

(c)  (d) None of these

1. The sums of  terms of two arithmatic series are in the ratio , then the ratio of their  terms is

(a) 53 : 155 (b) 27 : 77

(c) 29 : 83 (d) 31 : 89

1. If  are in A.P., then 

(a) 1 (b) 2

(c) 3 (d) 4

1. The sum of first  natural numbers is

(a)  (b) 

(c)  (d) 

1. The sum of all natural numbers between 1 and 100 which are multiples of 3 is

(a) 1680 (b) 1683

(c) 1681 (d) 1682

1. If the sum of  terms of an A.P. is , then the  term will be

(a)  (b) 

(c)  (d) 

1. The solution of the equation  is

(a) 1 (b) 2

(c) 3 (d) 4

1.  term of an A.P. is 40, then the sum of first 13 terms is

(a) 53 (b) 520

(c) 1040 (d) 2080

1. If  be the A.M. of  and , then 

(a) 1 (b) 

(c) 0 (d) None of these

1. The sum of  arithmetic means between  and , is

(a)  (b) 

(c)  (d) 

1. If the sum of three numbers of a arithmetic sequence is 15 and the sum of their squares is 83, then the numbers are

(a) 4, 5, 6 (b) 3, 5, 7

(c) 1, 5, 9 (d) 2, 5, 8

1. If twice the 11th term of an A.P. is equal to 7 times of its 21st term, then its 25th term is equal to

(a) 24 (b) 120

(c) 0 (d) None of these

1. If the  and  terms of a G.P. be  respectively, then the relation between  is

(a)  (b) 

(c)  (d) 

1. If the third term of a G.P. is 4 then the product of its first 5 terms is

(a)  (b) 

(c)  (d) None of these

1. If the  term of a geometric progression is 9 and  term is 4, then its  term is

(a) 6 (b) 36

(c)  (d) 

1. If the sum of an infinite G.P. be 9 and the sum of first two terms be 5, then the common ratio is

(a) 1/3 (b) 3/2

(c) 3/4 (d) 2/3

1. If the sum of three terms of G.P. is 19 and product is 216, then the common ratio of the series is

(a)  (b) 

(c) 2 (d) 3

1. If the geometric mean between  and  is , then the value of *n* is

(a) 1 (b) –1/2

(c) 1/2 (d) 2

1. If three geometric means be inserted between 2 and 32, then the third geometric mean will be

(a) 8 (b) 4

(c) 16 (d) 12

1. If , then the value of  will be

(a) 15/23 (b) 7/15

(c) 7/8 (d) 15/7

1. If , then value of *x* will be

(a)  (b) 

(c)  (d) 

1. The value of  is

(a) 2 (b) 3

(c) 4 (d) 9

1. If the  term of a H.P. be  and  be , then the  term will be

(a)  (b) 

(c)  (d) 

1. If  be the harmonic mean between  and , then the value of  is

(a) 1 (b) 

(c) 0 (d) 2

1. If the A.M. and H.M. of two numbers is 27 and 12 respectively, then G.M. of the two numbers will be

(a) 9 (b) 18

(c) 24 (d) 36

1. equals

(a)  (b) 

(c)  (d) 

1. The sum of the series  to *n* terms is

(a)  (b) 

(c)  (d) 

1. The sum of ,is

(a) 22000 (b) 10,000

(c) 14,400 (d) 15,000