

Class 10 – Maths

Chapter - 5 Arithmetic Progression

Quiz -5 (1- Mark Questions)

1. For what value of k will the consecutive terms $2k+1, 3k+3$ and $5k-1$ form an A.P.?
 - (a) 5
 - (b) 6
 - (c) 7
 - (d) None of these
2. If the sum of first 7 terms of an A.P. is 49 and that of its first 17 terms is 289, find the sum of first n terms of the A.P?
 - (a) n
 - (b) $n^2 - 1$
 - (c) n^2
 - (d) None of these
3. The fourth term of an A.P. is 11. The sum of the fifth and seventh terms of the A.P. is 34. Find its common difference
 - (a) -2
 - (b) 1
 - (c) 2
 - (d) 3
4. The ninth term of an A.P is -32, and the sum of eleventh and thirteenth terms is -94. find the common difference of the A.P?
 - (a) -5
 - (b) -7
 - (c) -10
 - (d) None of these

5. If the sum of first n -terms of an AP is $\frac{1(3n^2 + 7n)}{2}$, Write the sum of first 20 terms-

- (a) 600
- (b) 650
- (c) 670 (d) 700

6. If the sum of first n -terms of an AP is $\frac{1(3n^2 + 7n)}{2}$, Write its 20th term-

- (a) 55
- (b) 58
- (c) 60
- (d) 62

7. The 14th term of an AP is twice its 8th term. If its 6th term is -8, then find the sum of its first 20 terms.

- (a) -340
- (b) -350
- (c) -360
- (d) None of these

8. The 14th term of an AP is twice its 8th term. If its 6th term is -8, then find the sum of its first 20 terms.

- (a) 465
- (b) 495
- (c) 415
- (d) None of these

9. In an A.P., if the 12th term is -13 and the sum of its first four terms is 24, find the sum of its first ten terms.

- (a) 6
- (b) 7
- (c) 8
- (d) 0

10. An arithmetic progression 5,12,19,... has 50 terms. Find its last term.

- (a) 8025
- (b) 8725
- (c) 8812
- (d) 8825