

## 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

Ans – (b) 6

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

Ans – (c)  $n^2$

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

Ans – (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

Ans – (a) -5

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

Ans – (c) 670

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

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

Ans – (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

Ans – (a) -340

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

Ans – (b) 495

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

Ans – (d) 0

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

(a) 8025

(b) 8725

(c) 8812

(d) 8825

Ans – (d) 8825