Class 10 – Maths

Chapter - 5 Arithmetic Progression

Quiz -4 (1- Mark Questions)

1. What will be the sum of nth term – a, a + d, a + 2d, a + 3d?
   (a) n[2a + (n-1)d]
   (b) $\frac{n}{2}$[2a + (n-1)d]
   (c) $\frac{n}{2}$[2a + (n-2)d]
   (d) $\frac{n}{2}$[a + d]

2. What is sum of first 16 terms , if the A.P. is 7,11,15,19,23……?
   (a) 582
   (b) 562
   (c) 592
   (d) 602

3. What will be the sum of first 15 terms of this A.P. 14, 10, 6, 2, -2……..
   (a) -210
   (b) -220
   (c) -200
   (d) -250

4. If a=7, d = 3, n = 8 What will be S_n ?
   (a) 149
   (b) 140
   (c) 145
   (d) None of these

5. Find the 25th term of the A.P. – 5, -5/2, 0, 5/2……
   (a) 58

(b) 56

(c) 55 (d) No, it is not the term of AP

6. If a,(a-2) and 3a are in AP, then value of a is -
   (a) -3
   (b) 2
   (c) 3
   (d) -2

7. For what value of n are the nth term of the following two AP's are same 13,19,25,…..and 69,68,67…
   (a) 10
   (b) 11
   (c) 12
   (d) 9

8. Determine the AP whose third term is 16 and the 7^{th} term exceeds the 5^{th} term by 12.
   (a) 4,7,10
   (b) 4,8,12
   (c) 4,10,16
   (d) None of these

9. 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) 7
   (c) 8
   (d) 3

10. 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) 0
   (b) 3
   (c) 7

(d) None of these