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]
   Ans – (b) $\frac{n}{2}$[2a + (n-1)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
   Ans – (c) 592

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
   Ans – (a) -210

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

Ans – (b) 140

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

Ans – (c)

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

(a) -3

(b) 2

(c) 3

(d) -2

Ans – (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

Ans – (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

Ans – (c) 4,10,16

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

Ans – (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

Ans – (a) 0