

### Multiple Choice Questions

Choose the correct option:

1. The  $m$ th term of the AP 5, 11, 17, 23, ... is :  
(a)  $6m - 1$  (b)  $6m + 1$  (c)  $5m - 1$  (d)  $6n - 1$
2. If the  $n$ th term of an AP is  $2n - 1$ , then its 20th term is :  
(a) 33 (b) 34 (c) 36 (d) 39
3. The number of terms in the AP 7, 16, 25, ..... 349 is :  
(a) 40 (b) 39 (c) 38 (d) 35
4. The sum of first 8 multiples of 3 is :  
(a) 108 (b) 100 (c) 96 (d) 95
5. If the  $n$ th term of an AP is  $T_n = 5 - 3n$ , then its common difference is :  
(a)  $-2$  (b)  $-3$  (c) 3 (d) 4

6. The first term of the AP whose  $p$ th term is  $3p - 1$  is :  
(a) 2 (b) 3 (c) 4 (d) 5
7. The 10th term of the AP 120, 116, 112 ... is :  
(a) 80 (b) 82 (c) 84 (d) 90
8. The common difference of the AP  $-15, -12, -9, \dots$  is :  
(a) 3 (b)  $-3$  (c) 2 (d)  $-2$
9. If the sum of first  $n$  terms of an AP is given by  $S_n = 8n^2 - n$ , then the first term of the AP is :  
(a)  $-8$  (b) 8 (c) 7 (d)  $-1$
10. The  $n$ th term of an AP is given by  $T_n = -5n + 1$ . The common difference of the AP is :  
(a)  $-5$  (b)  $-4$  (c) 4 (d)  $-2$
11. For an AP, if  $a = 5$ ,  $d = 3$  and  $t_n = 50$ , then the value of  $n$  is :  
(a) 10 (b) 16 (c) 20 (d) 21
12. The sum of first 8 multiples of 3 is :  
(a) 100 (b) 104 (c) 107 (d) 108
13. Which term of the AP 4, 9, 14, 19, ... is 124?  
(a) 20th (b) 22nd (c) 24th (d) 25th
14. The 10th term from the end of the AP  $-2, -6, -10, \dots -110$  is :  
(a)  $-72$  (b) 74 (c)  $-74$  (d)  $-70$
15. If  $(5m + 2)$ ,  $(4m - 1)$  and  $(m + 2)$  are in AP, then the value of  $m$  is :  
(a) 1 (b) 2 (c)  $-1$  (d) 3
16. The 11th term of the AP  $-3, -\frac{1}{2}, 2, \dots$  is :  
(a) 22 (b) 21 (c) 20 (d) 16
17. The common difference of the AP whose  $p$ th term is  $8p + 1$ , is :  
(a) 1 (b) 4 (c)  $-7$  (d) 8
18. The  $n$ th term of the AP 2, 5, 8, ... is :  
(a)  $3n + 1$  (b)  $2n - 1$  (c)  $2n + 3$  (d)  $3n - 1$
19. The 100th term of the AP  $x, x + 1, x + 2, \dots$  is :  
(a) 99 (b)  $x$  (c)  $x + 99$  (d)  $x - 99$
20. The 6th term from the end of the AP 17, 14, 11, ...,  $-40$  is :  
(a) 25 (b)  $-25$  (c)  $-20$  (d) 40