Green Valley National School and PU College, Shiroor

Class:10

Subject:maths,

Arithmetic Progression

Multiple Choice Questions

Choose the correct answer from the given four options

1. The list of numbers $-10, -6, -2, 2, \ldots$ is

    (a) an A.P. with $d = -16$ (b) an A.P. with $d = 4$

    (c) an A.P. with $d = -4$ (d) not an A.P.

2. The 10th term of the A.P. $5, 8, 11, 14, \ldots$ is

    (a) 32   (b) 35   (c) 38   (d) 185

3. The 30th term of the A.P. 10, 7, 4, ... is
   - (a) 87
   - (b) 77
   - (c) −77
   - (d) −87
4. The 11th term of the A.P. $-3, -\frac{1}{2}, 2, \ldots$ is
   - (a) 28
   - (b) 22
   - (c) −38
   - (d) $-48\frac{1}{2}$
5. The 4th term from the end of the A.P. −11, −8, −5, ..., 49 is
   - (a) 37
   - (b) 40
   - (c) 43
   - (d) 58
6. The 15th term from the last of the A.P. 7, 10, 13, ..., 130 is
   - (a) 49
   - (b) 85
   - (c) 88
   - (d) 110
7. If the common difference of an A.P. is 5, then $a_{18} - a_{13}$ is
   - (a) 5
   - (b) 20
   - (c) 25
   - (d) 30
8. In an A.P., if $a_{18} - a_{14} = 32$ then the common difference is
   - (a) 8
   - (b) −8
   - (c) −4
   - (d) 4
9. In an A.P., if $d = -4, n = 7, a_n = 4$, then a is
   - (a) 6
   - (b) 7
   - (c) 20
   - (d) 28
10. In an A.P., if $a = 3.5, d = 0, n = 101$, then a_n will be
    - (a) 0
    - (b) 3.5
    - (c) 103.5
    - (d) 104.5
11. In an A.P., if $a = -7.2, d = 3.6, a_n = 7.2$, then n is
    - (a) 1
    - (b) 3
    - (c) 4
    - (d) 5
12. Which term of the A.P. 21, 42, 63, 84, ... is 210?
    - (a) 9th
    - (b) 10th
    - (c) 11th
    - (d) 12th
13. If the last term of the A.P. 5, 3, 1, −1, ... is −41, then the A.P. consists of
    - (a) 46 terms
    - (b) 25 terms
    - (c) 24 terms
    - (d) 23 terms
14. If $k - 1, k + 1$ and $2k + 3$ are in A.P., then the value of k is
    - (a) −2
    - (b) 0
    - (c) 2
    - (d) 4
15. The 21st term of an A.P. whose first two terms are −3 and 4 is
    - (a) 17
    - (b) 137
    - (c) 143
    - (d) −143
16. If the 2nd term of an A.P. is 13 and the 5th term is 25, then its 7th term is
    - (a) 30
    - (b) 33
    - (c) 37
    - (d) 38
17. If the first term of an A.P. is −5 and the common difference is 2, then the sum of its first 6 terms is
    - (a) 0
    - (b) 5
    - (c) 6
    - (d) 15
18. The sum of 25 terms of the A.P. $-\frac{2}{3}, -\frac{2}{3}, -\frac{2}{3}, \ldots$ is
    - (a) 0
    - (b) $-\frac{2}{3}$
    - (c) $-\frac{50}{3}$
    - (d) −50
19. In an A.P., if $a = 1, a_n = 20$ and $S_n = 399$, then n is
    - (a) 19
    - (b) 21
    - (c) 38
    - (d) 42
20. In an A.P., if $a = -5, l = 21$ and $S = 200$, then n is equal to
    - (a) 50
    - (b) 40
    - (c) 32
    - (d) 25
21. In an A.P., if $a = 3$ and $S_8 = 192$, then d is
    - (a) 8
    - (b) 7
    - (c) 6
    - (d) 4
22. The sum of first five multiples of 3 is
    - (a) 45
    - (b) 55
    - (c) 65
    - (d) 75
23. The number of two digit numbers which are divisible by 3 is
    - (a) 33
    - (b) 31
    - (c) 30
    - (d) 29