

1. Sequence is same as progression.

- a) True
- b) False

2. Complete 2,3,5,7, _____

- a) 8
- b) 9
- c) 10
- d) 11

3. Complete 2, 4, 6, 8, _____

- a) 10
- b) 9
- c) 13
- d) 11

4. Which of the following is finite sequence?

- a) 48,24,12,
- b) 1,2,3,
- c) 2,4,6,8,10
- d) 2,3,5,7,11,13,

5. Which of the following relation gives Fibonacci sequence?

- a) $a_n = a_{n-1} + a_{n-2}$
- b) $a_{n-1} = a_n + a_{n-2}$
- c) $a_{n-2} = a_n + a_{n-1}$
- d) $a_n = a_{n+1} + a_{n-2}$

6. 1,1,2,3,5, is a Fibonacci Sequence.

- a) True
- b) False

7. What is the first term of Fibonacci sequence?

- a) 0
- b) 1
- c) 2
- d) 3

8. What is the third term of Fibonacci sequence?

- a) 0
- b) 1
- c) 2
- d) 3

9. If $a_n = 4n+6$, find 15th term of the sequence.

- a) 6
- b) 10
- c) 60
- d) 66

10. $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$, $n > 2$. Find a_5 .

- a) 2

- b) -1
- c) 1
- d) 0

11. A sequence is called _____ if $a_{n+1} = a_n + d$.

- a) arithmetic progression
- b) geometric Progression
- c) harmonic Progression
- d) special Progression

12. What is n^{th} term of an A.P.?

- a) $a_n = a + (n-1) d$
- b) $a_n = a + (n) d$
- c) $a_n = a * r^{n-1}$
- d) $a_n = a * r^n$

13. If an A.P. is 3,5,7,9..... Find the 12th term of the A.P.

- a) 12
- b) 21
- c) 22
- d) 25

14. If a constant is added or subtracted from each term of an A.P. then resulting sequence is also an A.P.

- a) True
- b) False

5. If a constant is multiplied to A.P. then resulting sequence is also an A.P.

- a) True
- b) False

16. If 3rd term of an A.P. is 6 and 5th term of that A.P. is 12. Then find the 21st term of that A.P.

- a) 40
- b) 42
- c) 60
- d) 63

17. If sum of n terms of an A.P. is n^2+5n then find general term.

- a) $n+1$
- b) $2n+4$
- c) $3n$
- d) n^2+3n

18. If an A.P. is 1,7,13, 19, Find the sum of 22 terms.

- a) 127
- b) 1204
- c) 1408
- d) 1604

19. If in an A.P., first term is 20 and 12th term is 120. Find the sum up to 12th term.

- a) 420
- b) 840

c) 140

d) 1680

20. If in an A.P., first term is 20, common difference is 2 and n^{th} term is 42, then find n.

a) 10

b) 11

c) 12

d) 14

ANSWERS-1.(B) 2.(D) 3.(A) 4.(C) 5.(A) 6.(A) 7.(B) 8.(C) 9.(D) 10.(B)

11.(A) 12.(A) 13.(D) 14.(A) 15.(A) 16.(C) 17.(B) 18.(C) 19.(B) 20.(C)