

## CHAPTER-5 | Arithmetic Progressions

QUIZ  
PART-09

1. The sum of the first five multiples of 3 is:

- A. 45  
B. 55  
C. 65  
D. 75 (A)

*Explanation:* The sum is  $3+6+9+12+15=45$ .

2. The sum of all odd integers between 2 and 100 divisible by 3 is:

- A. 17 B. 867  
C. 876 D. 786 (D)

*Explanation:* The sum of all odd integers divisible by 3 is 786.

3. Find the sum of the first 12 terms of the A.P. where the  $n$ th term is  $a_n=3n+4n$

- A. 262 B. 272  
C. 282 D. 292 (C)

*Explanation:* The sum of the first 12 terms is 282.

4. Find the first term of the A.P. 600,650,...where the 3rd and 7th terms are given:

- A. 500  
B. 600  
C. 700  
D. 800 (B)

*Explanation:* The first term is 600.

5. What is the 25th term of the A.P.

5,10,15,...5,10,15,...?

- A. 125  
B. 130  
C. 135  
D. 140 (B)

*Explanation:* The 25th term is

$$5+(25-1)\cdot 5=1305+(25-1)\cdot 5=130.$$

6. The sum of the first 10 terms of the A.P.

7,14,21,...is:

- A. 300  
B. 350  
C. 400  
D. 450 (B)

*Explanation:* The sum of the first 10 terms is 350.

7. How many terms are there in the A.P.

4,8,12,...up to 100?

- A. 25  
B. 26  
C. 27  
D. 28 (B)

*Explanation:* There are 26 terms in this A.P.

8. What is the 15th term of the A.P. 3,8,13,...

- A. 60  
B. 61  
C. 62  
D. 63 (B)

*Explanation:* The 15th term is 61.

9. Find the sum of the first 20 terms of the A.P.

4,7,10,...

- A. 600  
B. 620  
C. 640  
D. 660 (D)

*Explanation:* The sum is 660.

10. In the A.P. 7,14,21,...find the 20th term:

- A. 140  
B. 141  
C. 142  
D. 143 (C)

*Explanation:* The 20th term is 142.