

## CHAPTER-5 | Arithmetic Progressions

QUIZ  
PART-02

1. Which is an A.P.?

- A. Taxi fare ₹15 for the first km, ₹8 for each additional km  
B. Compound interest  
C. Vacuum pump air removal  
D. None (A)

*Explanation:* The fare increases by ₹8, making it an A.P.

2. First four terms when  $a = 10$ ,  $d = 10$ ?

- A. 10, 20, 30, 40  
B. 10, 12, 14, 16  
C. 10, 15, 20, 25  
D. 10, 8, 6, 4 (A)

*Explanation:* The terms are 10, 20, 30, 40.

3. First four terms when  $a = -2$ ,  $d = 0$ ?

- A. -2, -2, -2, -2  
B. -2, 0, 2, 4  
C. -2, -4, -6, -8  
D. -2, 0, 2, 4 (A)

*Explanation:* The common difference is 0, so all terms are -2.

4. Common difference in 3, 1, -1, -3?

- A. 2  
B. -2  
C. 3  
D. -3 (B)

*Explanation:* The common difference is -2.

5. First term and common difference in -5, -1, 3, 7?

- A. First term: -5, Common difference: 4  
B. First term: 5, Common difference: -2  
C. First term: -5, Common difference: 2  
D. First term: 5, Common difference: 4 (A)

*Explanation:* First term is -5, common difference is 4.

6. First four terms when  $a = 4$ ,  $d = -3$ ?

- A. 4, 1, -2, -5  
B. 4, 7, 10, 13  
C. 4, 6, 8, 10  
D. 4, 3, 2, 1 (A)

*Explanation:* The terms are 4, 1, -2, -5.

7. Common difference for  $1/5, 1/3, 7/15, 3/5$ ?

- A.  $1/5$   
B.  $2/5$   
C.  $1/3$   
D.  $1/4$  (B)

*Explanation:* The common difference is  $2/5$ .

8. Which A.P. has a common difference of 3?

- A. 1, 4, 7, 10  
B. 2, 4, 8, 12  
C. 1, 2, 3, 4  
D. 5, 6, 7, 8 (A)

*Explanation:* The common difference is 3.

9. First four terms when  $a = -1.25$ ,  $d = -0.25$ ?

- A. -1.25, -1.50, -1.75, -2  
B. -1.25, -1.00, -0.75, -0.50  
C. -1.25, -0.75, -0.25, 0.25  
D. -1.25, -1.75, -2.25, -2.75 (A)

*Explanation:* The terms are -1.25, -1.50, -1.75, -2.

10. A.P. with first term 0.6 and common difference 1.1?

- A. 0.6, 1.7, 2.8, 3.9  
B. 0.6, 1.5, 2.4, 3.3  
C. 0.6, 1.0, 1.4, 1.8  
D. 0.6, 0.9, 1.2, 1.5 (A)

*Explanation:* The common difference is 1.1, and the terms are 0.6, 1.7, 2.8, 3.9.