

Class 10 – Maths

Chapter - 5 Arithmetic Progression

Quiz -1 (1- Mark Questions)

1. What will be the next term – 3, -1, -5, -9?

- (a) 13
- (b) -13
- (c) 12
- (d) -12

Ans (b) -13

2. What will be the common difference of this A.P : $\frac{5}{2}, 3, \frac{7}{2}, 4, \frac{9}{2}, \dots$

- (a) $-\frac{1}{2}$
- (b) $+\frac{1}{2}$
- (c) $-\frac{3}{2}$
- (d) None of These

Ans – (b) $\frac{1}{2}$

3. What is the common difference for this A.P. a, 3a, 5a, 7a,....

- (a) - 2a
- (b) - a
- (c) + 2a
- (d) + a

Ans – (c) +2a

4. Which series is an A.P. ?

- (a) 25, 21, 17, 12,.....
- (b) 1,-1,1,-2,...

(c) 7, 4, 1, -2, -5,.....

(d) $1, \frac{1}{2}, 0, -\frac{1}{2}, -\frac{3}{2}, \dots$

Ans – (c) 7, 4, 1, -2, -5,.....

5. What is the common difference of this A.P. $\sqrt{2}, 2\sqrt{2}, 3\sqrt{2}, 4\sqrt{2}, \dots$

(a) $\sqrt{3}$

(b) 1

(c) $-\sqrt{2}$ (d) $\sqrt{2}$

Ans – (d) $\sqrt{2}$

6. If initial term = 7 and common difference = 6 , what will be the first three terms of this A.P. ?

(a) 7, 1,-5

(b) 7, 13, 19

(c) 7, 12,17

(d) None of these

Ans – (b) 7,13,19

7. What is the common difference of this A.P. - $\sqrt{2}, \sqrt{8}, \sqrt{18}, \sqrt{32}, \dots$

(a) It is not an A.P.

(b) $\sqrt{2}$

(c) $2\sqrt{2}$

(d) $\sqrt{8}$

Ans (b) $\sqrt{2}$

8. For an A.P. what is necessary?

(a) There should be an initial term

(b) The difference between terms should be equal.

(c) A.P. should have atleast 2 terms

(d) All of these

Ans (d) All of these

9. Which is not an A.P. ?

- (a) 1, 7, 13, 19....
- (b) $1^2, 2^2, 3^2, 4^2 \dots \dots$
- (c) $\frac{1}{2}, \frac{1}{2}, \frac{1}{2}, \dots \dots$
- (d) All of these are A.P.
- (e) Ans (b) $1^2, 2^2, 3^2, 4^2 \dots \dots$ is not an A.P.

10. if $a = 7$ and $d = -3$, What will be the three terms of an A.P. ?

- (a) 7, 4, 1,
- (b) 7, 4, -1
- (c) 7, -4, -1
- (d) None of these

Ans – (a) 7, 4, 1,