

## CHAPTER-2 | Lines and Angles

### QUIZ PART-06

1. Which of the following is the correct definition of an angle?
- A figure with two rays meeting at an endpoint
  - A line extending infinitely in one direction
  - A shape formed by two line segments
  - A straight path (A)

**Explanation:** An angle is formed by two rays that meet at a common endpoint, known as the vertex.

2. What is the common point where the two rays of an angle meet called?
- Vertex
  - Angle
  - Line
  - Arm (A)

**Explanation:** The common point where the two rays of an angle meet is called the vertex.

3. Which of the following represents a right angle?
- $\angle ABC = 45^\circ$
  - $\angle ABC = 90^\circ$
  - $\angle ABC = 180^\circ$
  - $\angle ABC = 120^\circ$  (B)

**Explanation:** A right angle measures  $90^\circ$ , forming an L-shape.

4. The angle formed by the hour and minute hands of a clock at 12:00 is:
- Acute
  - Right
  - Obtuse
  - Reflex (B)

**Explanation:** The angle formed at 12:00 is a right angle, equal to  $90^\circ$ .

5. An angle greater than  $90^\circ$  but less than  $180^\circ$  is called:
- Acute angle
  - Right angle
  - Obtuse angle
  - Reflex angle (C)

**Explanation:** An obtuse angle measures greater than  $90^\circ$  but less than  $180^\circ$ .

6. Which of the following is the smallest type of angle?

- Right angle
- Obtuse angle
- Acute angle
- Reflex angle (C)

**Explanation:** An acute angle measures less than  $90^\circ$  and is the smallest type of angle.

7. What is the size of a straight angle?

- $0^\circ$
- $45^\circ$
- $90^\circ$
- $180^\circ$  (D)

**Explanation:** A straight angle is exactly  $180^\circ$ , forming a straight line.

8. What is a reflex angle?

- An angle less than  $90^\circ$
- An angle greater than  $180^\circ$  but less than  $360^\circ$  (B)
- An angle equal to  $90^\circ$
- An angle equal to  $360^\circ$

**Explanation:** A reflex angle is an angle that is greater than  $180^\circ$  but less than  $360^\circ$ .

9. Which of the following angles is greater than  $180^\circ$ ?

- Acute
- Right
- Obtuse
- Reflex (D)

**Explanation:** A reflex angle is greater than  $180^\circ$  but less than  $360^\circ$ .

10. What type of angle is formed in Case III in the figure?

- Acute angle
- Right angle
- Obtuse angle
- Reflex angle (C)

**Explanation:** Case III in the figure shows an obtuse angle, where the angle is greater than  $90^\circ$  but less than  $180^\circ$ .