

CHAPTER-9 | : Circle

QUIZ
PART-16

1. In two intersecting circles, the intersection lies on:

- A) The center
- B) The third side of the triangle
- C) The diameter
- D) The radius (B)

Explanation: The intersection lies on the third side of the triangle.

2. A cyclic parallelogram is always a:

- A) Square
- B) Rectangle
- C) Rhombus
- D) Trapezium (B)

Explanation: A cyclic parallelogram is always a rectangle.

3. In two right triangles with a common hypotenuse, the angles are:

- A) Equal
- B) Supplementary
- C) Unequal
- D) Perpendicular (A)

Explanation: The angles are equal due to the common hypotenuse.

4. The sum of opposite angles in a cyclic quadrilateral is:

- A) 180°
- B) 90°
- C) 360°
- D) 270° (A)

Explanation: The sum of opposite angles is always 180° .

5. The intersection of two circles drawn with triangle sides as diameters is on:

- A) The center
- B) The third side
- C) The angle bisector
- D) The opposite vertex (B)

Explanation: The intersection point lies on the third side of the triangle.

6. If two equal chords intersect in a circle, what happens to the segments?

- A) They are unequal
- B) They are equal
- C) They are perpendicular
- D) They are parallel (B)

Explanation: Equal chords intersect to form equal segments.

7. In a cyclic quadrilateral, the sum of angles is:

- A) 90°
- B) 180°
- C) 360°
- D) 270° (C)

Explanation: The sum of all angles of a cyclic quadrilateral is 360° .

8. If a cyclic quadrilateral has one angle of 70° , its opposite angle is:

- A) 90°
- B) 110°
- C) 70°
- D) 180° (B)

Explanation: The sum of opposite angles is always 180° .

9. The line joining the centers of intersecting circles is:

- A) Parallel to the chord
- B) The perpendicular bisector of the common chord
- C) Equal to the radius
- D) Perpendicular to the tangent (B)

Explanation: The line joining the centers bisects the common chord.

10. A quadrilateral with diameters as diagonals is always a:

- A) Rhombus
- B) Square
- C) Rectangle
- D) Parallelogram (C)

Explanation: A quadrilateral with diameters as diagonals is always a rectangle.