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CHAPTER-9 | : Circle

QUIZ PART-11

Q1. In a cyclic quadrilateral, the sum of opposite angles is:
A) 90°
B) 180°
C) 360°
D) 270° **(B)**
Explanation: The sum of opposite angles in a cyclic quadrilateral is 180°.

2. The angle subtended by a diameter of a circle at the circumference is:
A) 90°
B) 45°
C) 180°
D) 60° **(A)**
Explanation: The angle subtended by a diameter at the circumference is always 90°.

3. Equal chords of a circle subtend equal angles at the center. This is known as:
A) Angle Theorem
B) Chord Theorem
C) Midpoint Theorem
D) Equal Chord Theorem **(D)**
Explanation: Equal chords subtend equal angles at the center (Equal Chord Theorem).

4. The opposite angles of a cyclic quadrilateral are always:
A) Equal
B) Supplementary
C) Perpendicular
D) Acute (B)
Explanation: The opposite angles of a cyclic quadrilateral are supplementary.

5. In a cyclic quadrilateral, the sum of all angles is:
A) 180°
B) 360°
C) 270°
D) 90° (B)
Explanation: The sum of all angles of a quadrilateral is 360°.

6. In a circle, if the two chords are equal, what can be concluded about the angles subtended at the center?
A) They are equal
B) They are unequal
C) They are right angles
D) They are complementary (A)
Explanation: Equal chords subtend equal angles at the center.

7. The angle subtended by a chord at the center is:
A) Half of the angle at the circumference
B) Equal to the angle at the circumference
C) Double of the angle at the circumference
D) None of the above (C)
Explanation: The angle at the center is twice the angle at the circumference.

8. A cyclic quadrilateral always has:
A) Equal sides
B) Opposite angles supplementary
C) Right angles
D) Parallel sides (B)
Explanation: In a cyclic quadrilateral, opposite angles are supplementary.

9. If the angle at the center is 80°, what is the angle at the circumference?
A) 40°
B) 80°
C) 160°
D) 90° (A)
Explanation: The angle at the circumference is half of the angle at the center (80° ÷ 2 = 40°).

10. If a quadrilateral is cyclic, the sum of the opposite angles is:
A) 90°
B) 180°
C) 360°
D) 270° (B)
Explanation: The sum of opposite angles in a cyclic quadrilateral is always 180°.

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