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M.M.25 Ch. <u>Circles</u> class IX Time 1hour

Section A 1 mark each

- 1. Diameter of a circle is 0.9 cm. Find its radius.
- 2. Define chord.
- 3. Concyclic points are ______.

Section B 2 marks each

- 4. Equal chords of a circle subtend equal angles at the centre
- 5. If two circles intersect at two points, prove that their centres lie on the perpendicular bisector of the common chord.

Section C 3 marks each

- 6. Two chords of a circle intersect in the interior of the circle and make equal angles with the diameter passing through their point of intersection. prove that the chords are equal.
- 7. Prove that the quadrilateral formed (if possible) by the internal angle bisectors of any quadrilateral is cyclic

Section D 6 marks each

- 8. Prove The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.
- 9. Chords AB and CD intersect at P when produced. Chord BD is equal to radius . Prove $\angle P = 60^{\circ}$.

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