M.M.25 **Ch. Circles 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 $\angle P = 60°$.