

(Each carry 1 Mark)

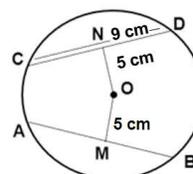
- Circle having same centre are said to be
(a) Concentric (b) circle (c) chord (d) secant
- The line which meet a circle in two points is called a
(a) chord of circle (b) diameter (c) radius (d) secant of circle
- The sum of either pair of opposite angle of cyclic quadrilateral is
(a) 360° (b) 90° (c) 180° (d) 270°
- Two circle are congruent if they have equal.
(a) diameter (b) radius (c) chord (d) secant

(Each carry 2 Marks)

- Prove that ADE is an isosceles triangle if $OD \perp AB$ and $OE \perp AC$



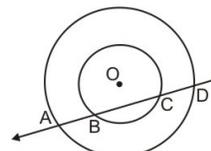
- If ON and OM are perpendiculars to CD and AB respectively, then find the length of AM in the figure given below.



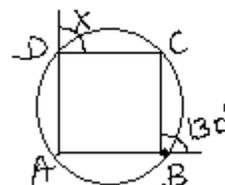
- In ABCD cyclic quadrilateral diagonal intersect at Q. $\angle DBC = 70^\circ$ and $\angle CAB = 30^\circ$ so find $\angle BCD$.
- The chord of a unit (in cm) circle subtends an angle of 120° at the centre. Find length of the chord in cm.

(Each carry 3 Marks)

- ABCD is a quadrilateral in which $AD=BC$ and $\angle ADC = \angle BCD$ show A, B, C, D lie on a circle
- If a line intersects two concentric circles (circles with the same centre) with centre O at A, B, C and D, prove that $AB = CD$.



- Two equal circles intersect in P and Q. A straight line through P meets the circles in A and B. Prove that $QA = QB$.
- Find the value of x if A, B, C, D are concyclic points



- Prove that equal chords of a circle subtend equal angles at the centre.
- Bisector AD of $\angle BAC$ of $\triangle ABC$ passes through the center O of the circumcircle of $\triangle ABC$. Prove that $AB = AC$.

