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Paper prepared by

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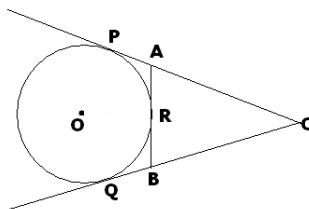
**Any suggestions please E mail: [devanoop@devanoop.com](mailto:devanoop@devanoop.com)**

**Section A MCQ – 1 Mark Each**

- Q.1 A line segment, having its end points on a circle, is known as  
 (a) Chord (b) Secant (c) Tangent (d) none of these
- Q.2 number of tangents that can be drawn through a point which is inside the circle is  
 (a) 3 (b) 2 (c) 1 (d) 0
- Q.3 A line through point of contact and passing through centre of circle is known as  
 (a) tangent (b) Chord (c) normal (d) segment
- Q.4 A circle is inscribed in a triangle with sides 3, 4 and 5 cm. The radius of the circle is  
 (a) 6 cm (b) 5 cm (c) 1 cm (d) none of these
- Q.5 Distance between two parallel lines is 10 cm. The radius of circle which will touch both two lines is  
 (a) 5 cm (b) 7 cm  
 (c) 12 cm (d) None of these

**Section B – 2 Mark Each**

- Q.6 In figure, CP and CQ are tangents to a circle with centre O. ARB is another tangent touching the circle at R. If CP = 12 cm, and BC = 8cm, then find the length of BR.



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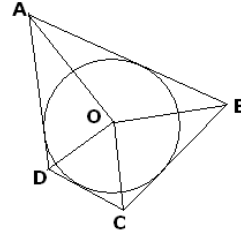
**Mathematics, Science, Math, English, Hindi**



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Q.7 In figure  $\angle AOB = 125^\circ$ . Find  $\angle COD$

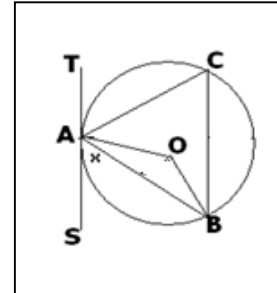


Q.8 Two tangents PA and PB are drawn to the circle with centre O, such that  $\angle APB = 120^\circ$ . Prove that  $OP = 2 AP$ .

### Section B – 3 Mark Each

Q.9 Two concentric circles are of radii 5 cm and 3 cm. find out the length of the chord of larger circle which touches the smaller circle.

Q.10 In the given figure, TAS is a tangent to the circle, with centre O, at the point A. If  $\angle OBA = 32^\circ$ , find x.



### Section B – 4 Mark Each

Q.11 The tangent at a point C of a circle and a diameter AB when extended intersect at P. If  $\angle PCA = 110^\circ$ , find  $\angle CBA$ .

Q.12 In the figure.  $X'Y'$  are two parallel tangents to a circle with Centre O and another tangent AB with point of contact C intersecting XY at A and  $X'Y'$  at B. Prove that  $\angle AOB = 90^\circ$ .

