# TesT paper

CLASS 10TH

# JSUNIL TUTORIAL

### PUNJABI COLONY GALI 01

### Circle

#### Section A. 1 Mark Each

Q.1 if a line segment, having its end point 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) 4 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
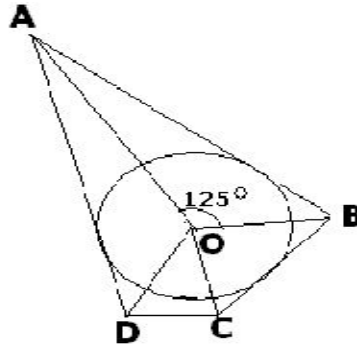
(a) 5cm (b) 7 cm(c ) 12 cm (d) None of these

#### Section B. 2 Mark Each

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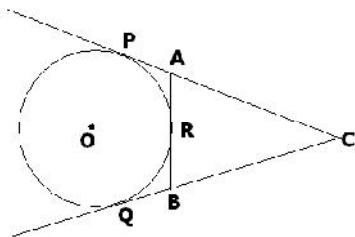


Q.7 In figure AB is a chord of the circle and AOC is its diameter such that

$\angle ABC = 50^0$. If AT is the tangent to the circle at the point A, find $\angle BAT$

Q.8 Two tangents PA and PB are drawn to the circle with centre, such that $\angle APB = 1200$ . Prove that OP = 2 AP.

### Section c 3 Mark Each

Q.11 The tangent at a point C of a circle and a diameter AB when extended intersect at P. If $\angle PCA = 110^0$ , 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 $\angle AOB = 90^0$.