પુ.ના International School

Shree Swaminarayan Gurukul, Zundal

SUBJECT: MATHS Total Marks: 10

CHAPTER - 10

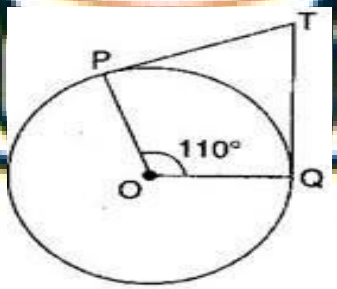
Std : 10th Weekly Test [1 x 4 = 4]

*** Fill in the blanks:**

1. A tangent to a circle intersects it in _____ point(s).
2. A line intersecting a circle in two points is called a _____.
3. A circle can have _____ parallel tangents at the most.
4. The common point of a tangent to a circle and the circle is called _____.

SOLVE (Any two) [2 X 3 = 6]

5. A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that OQ = 12 cm. Then find length PQ.
6. .Draw a circle and two lines parallel to a given line such that one is a tangent and the other, a secant to the circle.
7. In figure, if TP and TQ are the two tangents to a circle with centre O so that ∠POQ = 180° then ∠PTQ is equal to:



8. If tangents PA and PB from a point P to a circle with centre O are inclined to each other at angle of 80°, then find value ∠POA .
9. Prove that the tangents drawn at the ends of a diameter of a circle are parallel.