

## Exercise 10.1

1. Fill in the blanks:

(i) The centre of a circle lies in Interiors of the circle.

(ii) A point, whose distance from the centre of a circle is greater than its radius lies in exterior of the circle.

(iii) The longest chord of a circle is a diameter of the circle.

(iv) An arc is a Semicircle when its ends are the ends of a diameter.

(v) Segment of a circle is the region between an arc and the chord of the circle.

(vi) A circle divides the plane, on which it lies, Three parts.

2. Write true or false: Give reasons for your answers.

(i) Line segment joining the centre to any point on the circle is a radius of the circle. [T]

(ii) A circle has only finite number of equal chords. [F]

110 If a circle is divided into three equal arcs each is a major arc. P

111 A chord of a circle which is twice as long as its radius is a diameter of the circle. T

112 Sector is the region between the chord and its corresponding arc. F

113 A circle is a plane figure. T

Exercise 10.2

... are congruent of