10

CIRCLES

EXERCISE 10.1

Q.1.	Fill in the blanks:
	(i) The centre of a circle lies in of the circle. (exterior/interior)
	(ii) A point, whose distance from the centre of a circle is greater than its radius lies in of the circle. (exterior/interior)
	(iii) The longest chord of a circle is a of the circle.
	(iv) An arc is a when its ends are the ends of a diameter.
	(v) Segment of a circle is the region between an arc and of the circle.
	(vi) A circle divides the plane, on which it lies in parts.
Sol.	(i) interior (ii) exterior (iii) diameter (iv) semicircle (v) the chord (vi)
	three
Q.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.
	(ii) A circle has only finite number of equal chords.
	(iii) If a circle is divided into three equal arcs, each is a major arc.
	(iv) A chord of a circle, which is twice as long as its radius, is a diameter of the circle.
	(v) Sector is the region between the chord and its corresponding arc.
	(vi) A circle is a plane figure.
Sol.	(i) True (ii) False (iii) False (iv) True (v) False (vi) True