EXER	CICI	2 1
H. A. H. K	U. 15 P.	
LIZELI	CIDL	•••

1. Find the radian measures corresponding to the following degree measures:

- (i) 25°
- (ii) -47°30′
- (iii) 240°
- (iv) 520°

- 2. Find the degree measures corresponding to the following radian measures (Use $\pi = \frac{22}{7}$).
 - (i) $\frac{11}{16}$ (ii) -4 (iii) $\frac{5\pi}{3}$ (iv) $\frac{7\pi}{6}$
- **3.** A wheel makes 360 revolutions in one minute. Through how many radians does it turn in one second?
- 4. Find the degree measure of the angle subtended at the centre of a circle of radius 100 cm by an arc of length 22 cm (Use $\pi = \frac{22}{7}$).
- 5. In a circle of diameter 40 cm, the length of a chord is 20 cm. Find the length of minor arc of the chord.
- 6. If in two circles, arcs of the same length subtend angles 60° and 75° at the centre, find the ratio of their radii.
- 7. Find the angle in radian through which a pendulum swings if its length is 75 cm and the tip describes an arc of length
 - (i) 10 cm
- (ii) 15 cm
- (iii) 21 cm