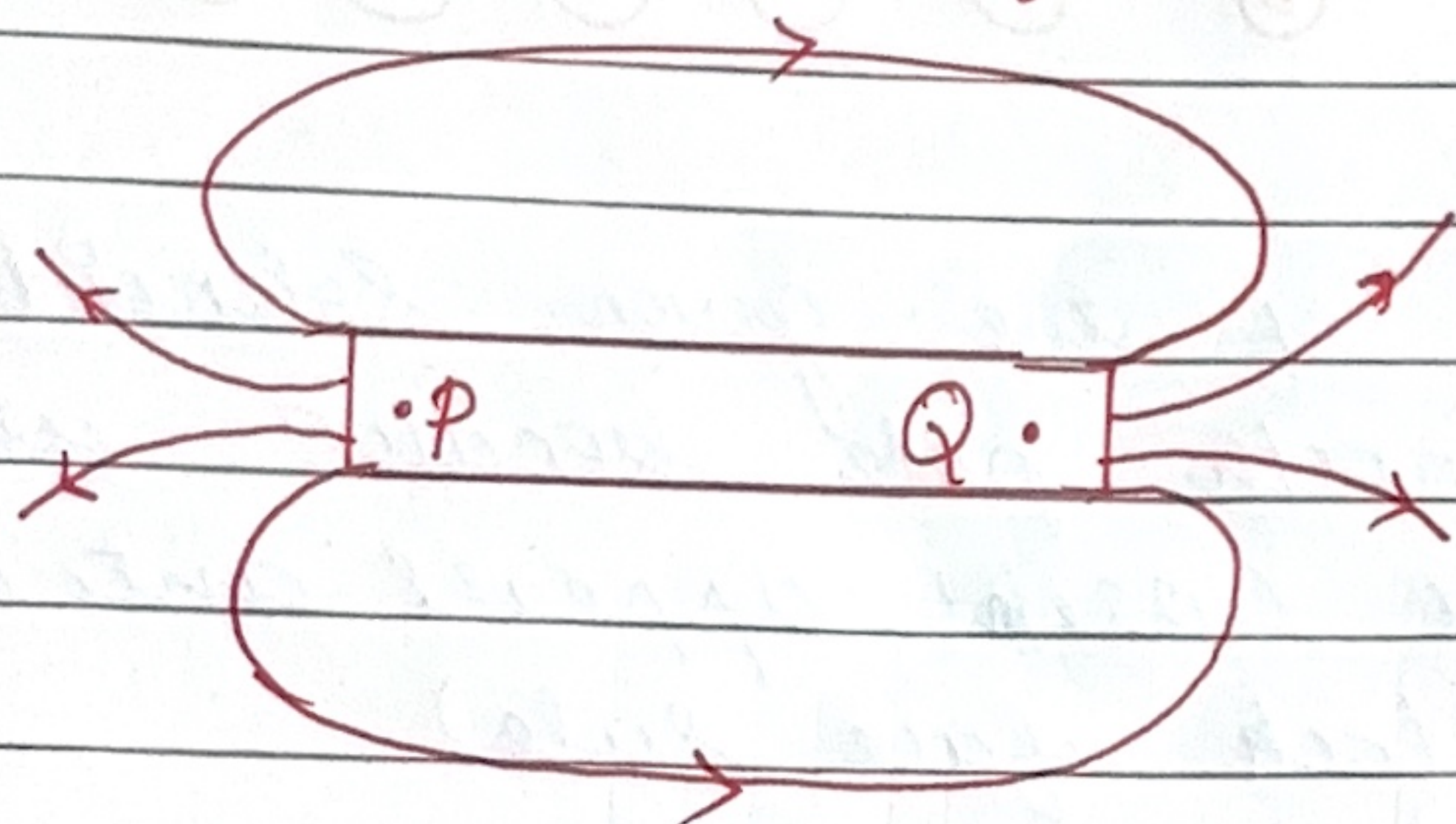


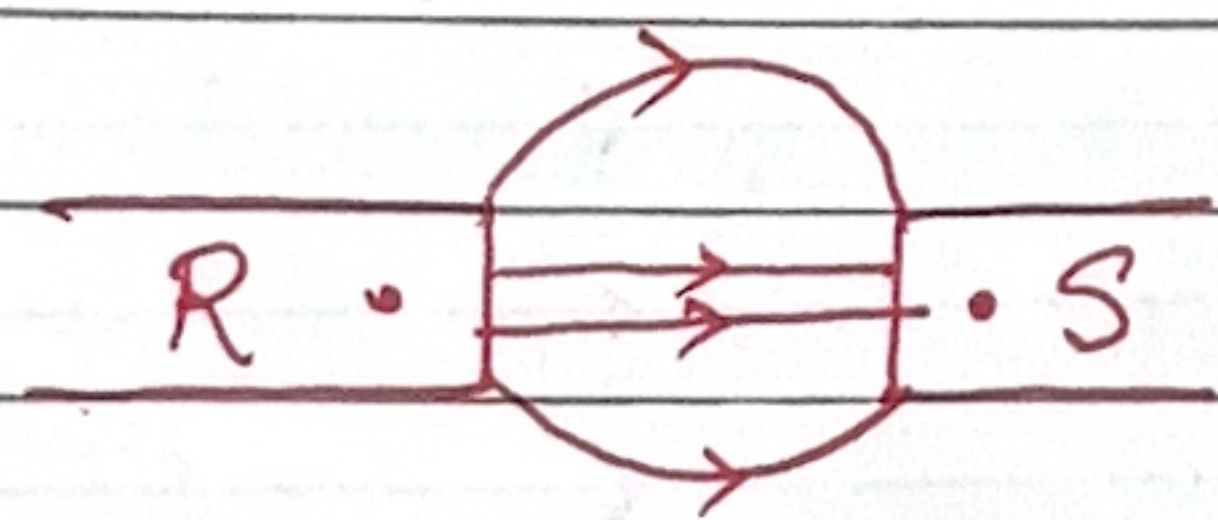
CH-12 MAGNETIC EFFECTS OF ELECTRIC CURRENT

I. VERY SHORT ANSWER

- Q1. (a) Name the pole P, Q, R and S of the magnets in the following 'a' and 'b'.



(a)

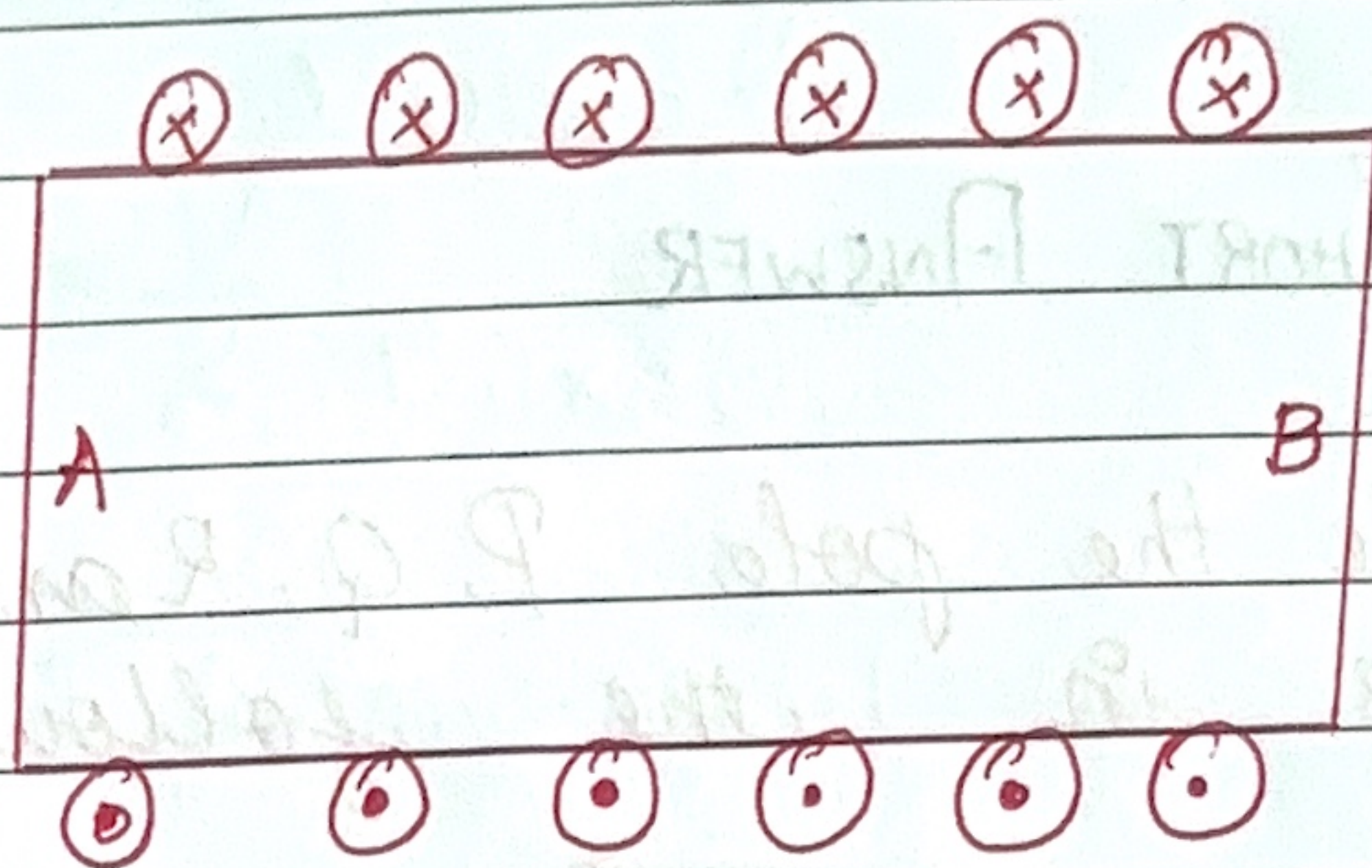


(b)

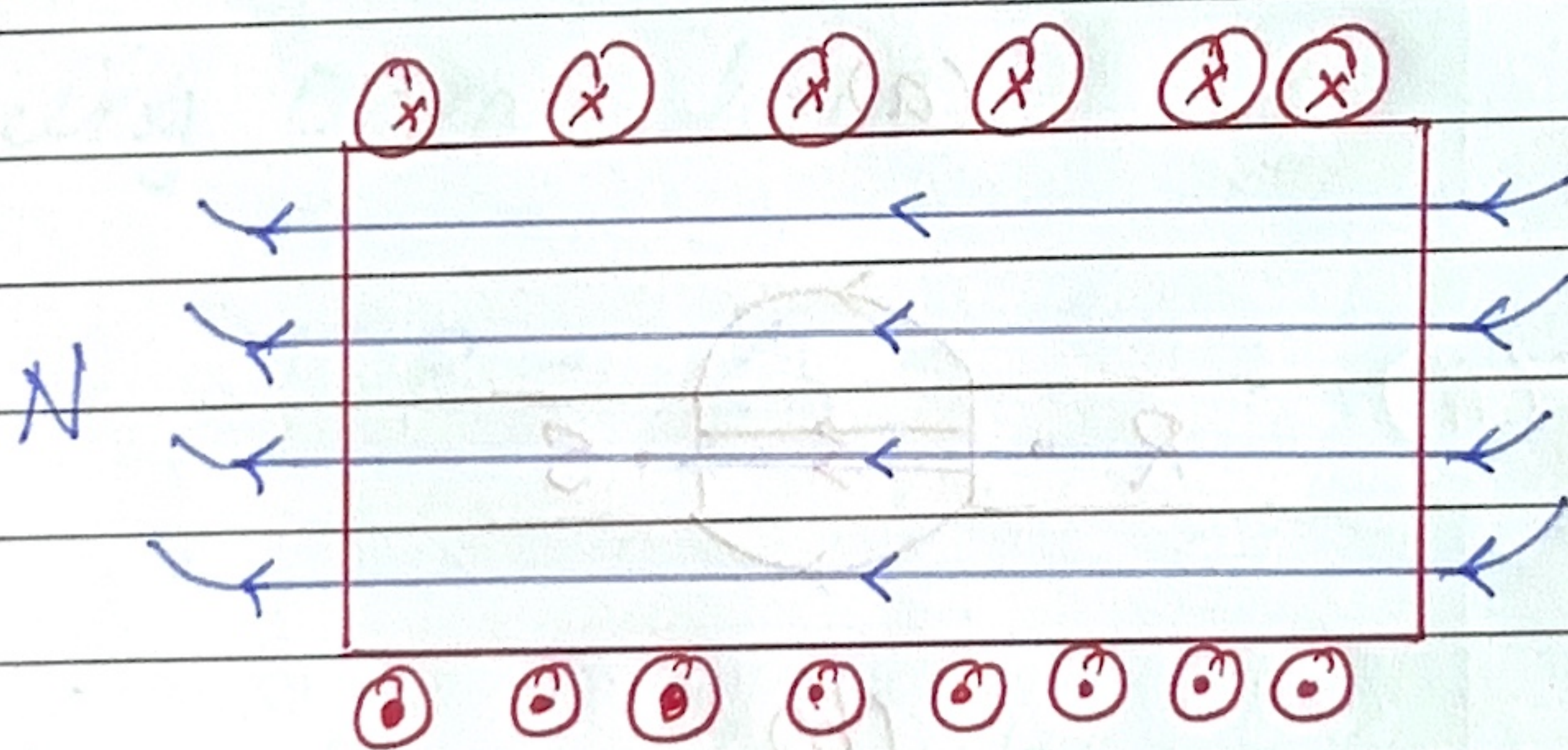
Answer: P - North pole
Q - South pole
R - South pole
S - North pole.

- Q2. Diagram shows the lengthwise section of a current carrying solenoid. $\otimes$ indicates current entering into the page. $\odot$ indicates current entering out of the page. Decide which end of the solenoid A or B will behave as north pole. Give reason for

your answer. Also draw field lines inside the solenoid.



'A' end of the given solenoid will behave as north pole because at this end direction of current appears anticlockwise (By using Clock face rule)



③ An electric fuse of rating 3A is connected to a circuit in which an electric iron of power 1.5 kW is connected which operates at 220V. What happen? Explain

$$P = VI$$

$$I = \frac{P}{V} = \frac{1.5 \text{ kW}}{220 \text{ V}}$$

$$= \frac{1500W}{220V}$$

$$= 6.8A$$

(4) Draw the magnetic field pattern

Refer Textbook

Pg. NO : 197 Field lines around
a bar magnet.
✓