

- 7 The circuit of Fig. 7.1 includes an ammeter, a  $6.0\ \Omega$  resistor, a length of metal resistance wire and three  $1.5\text{ V}$  cells connected in parallel.

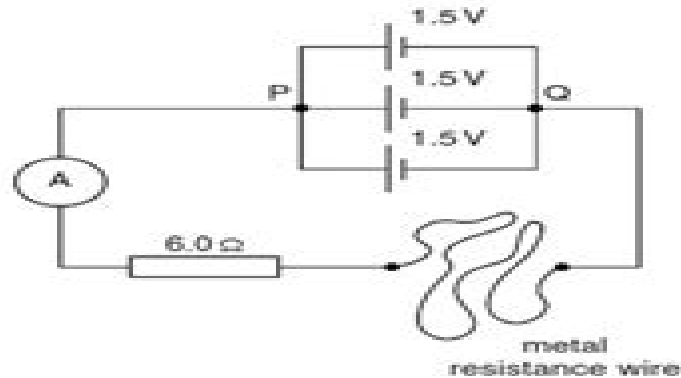


Fig. 7.1

(a) State

- (i) one advantage of using cells in parallel rather than using a single cell,

.....[1]

- (ii) the potential difference (p.d.) between points P and Q in the circuit of Fig. 7.1.

p.d. = .....[1]

(b) (i) The ammeter in Fig. 7.1 reads  $0.075\text{ A}$ .

Calculate the resistance of the resistance wire.

resistance = .....[3]

- (ii) The temperature of the metal resistance wire increases.

State and explain the effect of this temperature increase on the ammeter reading.

.....[2]

# 14 Industrial Electronics Past Question Papers

**Arturo Cuomo**



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