

**32** What is meant by the electromotive force (e.m.f.) of a cell?

- A** The e.m.f. of a cell is the energy converted into electrical energy when unit charge passes through the cell.
- B** The e.m.f. of a cell is the energy transferred by the cell in driving unit charge through the external resistance.
- C** The e.m.f. of a cell is the energy transferred by the cell in driving unit charge through the internal resistance of the cell.
- D** The e.m.f. of a cell is the amount of energy needed to bring a unit positive charge from infinity to its positive pole.

**33** Two cells of e.m.f.  $2.0\text{ V}$  and  $1.2\text{ V}$  and negligible internal resistance are connected to resistors of