

**18** A car battery of e.m.f. 12 V and internal resistance  $0.20\ \Omega$  is connected to a load of  $4.0\ \Omega$ . If the potential difference across the load is 10 V, what is the power lost in the connecting wires?

**A** 3.0 W

**B** 3.8 W

**C** 4.2 W

**D** 6.0 W