

**23** A filament lamp is described as being 120 V, 40 W.

The lamp is connected into a circuit so that it lights normally.

Which statement is correct?

- A** The charge passing through the filament in one second is 3.0 C.
- B** The lamp transfers 40 J for each coulomb passing through the filament.
- C** The lamp transfers 120 J in 3.0 s.
- D** The supply provides 40 J to the lamp when the current is 3 A.

**24** Four different components of identical resistances are connected to the same constant voltage source.