

**10** As the temperature of the filament in a bulb decreases, the resistance of the filament changes.

Which of the following is the reason for this change in resistance of the filament?

- ☐ **A** Lattice vibrations decrease
- ☐ **B** Lattice vibrations increase
- ☐ **C** Number of conduction electrons decreases
- ☐ **D** Number of conduction electrons increases

**(Total for Question 10 = 1 mark)**