

6 When the temperature of a metal wire increases, the resistance of the wire increases.

Which of the following explains this increase in resistance?

- ☐ A the amplitude of the lattice vibrations decreases
- ☐ B the amplitude of the lattice vibrations increases
- ☐ C the number of conduction electrons decreases
- ☐ D the number of conduction electrons increases

(Total for Question 6 = 1 mark)