

3. Chemical bonding

3.3 Metallic bonding

Paper 1

Question Paper

- 1** Which statement about the properties associated with the different types of bonding involved is correct?
- A** Any covalent compound that contains both oxygen and hydrogen in its molecule forms hydrogen bonds.
 - B** Ionic bonds and covalent bonds cannot both occur in the same compound.
 - C** Ionic compounds differ from metals in that ionic compounds do not conduct electricity in the solid state.
 - D** The only covalent compounds with high melting points are those in which hydrogen bonds occur.

- 2** Copper has a high melting point.

What is the reason for the high melting point of copper?

- A** strong attractive forces between copper atoms only
- B** strong attractive forces between copper ions and delocalised electrons
- C** strong attractive forces between copper ions only
- D** strong attractive forces between copper atoms and delocalised electrons