

AQA – Bonding – A2 2023 Chemistry P3

1. No.9

Which substance has significant electron delocalisation?

[1 mark]

A graphite

☐

B iodine

☐

C sodium chloride

☐

D tetrachloromethane

☐

2. No.15

What happens when water is vaporised?

[1 mark]

A Covalent bonds break within molecules.

☐

B Intermolecular forces are overcome.

☐

C The enthalpy of the molecules decreases.

☐

D The disorder of the molecules decreases.

☐

3. No.23

Which statement about the shapes of ions is **not** correct?

[1 mark]

A $[\text{CoCl}_4]^{2-}$ is square planar.☐B NH_4^+ is tetrahedral.☐C $[\text{Co}(\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2)_3]^{2+}$ is octahedral.☐D $[\text{Co}(\text{H}_2\text{O})_6]^{2+}$ is octahedral.☐