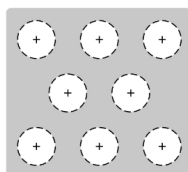


Metallic bonding

Q1. (2018)

0 5 . 3 Figure 7 shows the structure of sodium.

Figure 7



Describe how sodium conducts thermal energy.

[3 marks]

Q2. (2021)

Steel is an alloy of iron and carbon.

0 4 . 3 Explain why steel is harder than iron.

[3 marks]

Q3. (2022)

0 5 . 3 An alloy of aluminium contains small amounts of other metals.

Explain why other metals are added to aluminium.

[4 marks]

Q4. (2022)

Sodium metal and sodium chloride are both able to conduct electricity.

0 7 . 5 Describe how sodium metal conducts electricity.

[2 marks]

Q5. (2023)

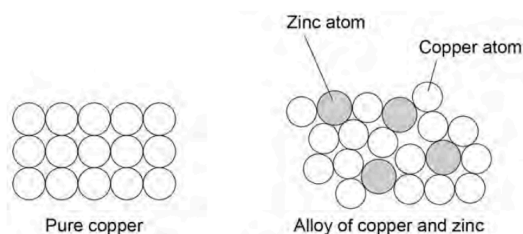
0 7 . 2 Explain why the structure of copper allows the conduction of thermal energy.

[3 marks]

Q6. (2024)

0 1 . 2 Figure 2 represents the structures of pure copper and of an alloy of copper and zinc.

Figure 2



Explain why the alloy of copper and zinc is harder than pure copper.

Use Figure 2.

[3 marks]