

Metallic bonding

Q1. (2018)

0 1 . 7 Complete the sentence.

Choose the answer from the box.

[1 mark]

atoms	electrons	ions	molecules
-------	-----------	------	-----------

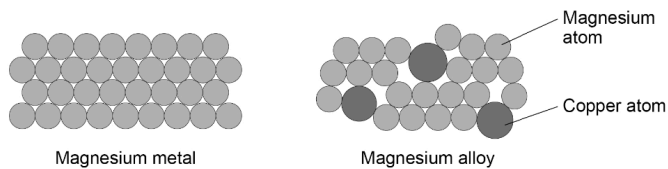
Copper conducts electricity because of the movement of delocalised _____.

Q2. (2022)

Figure 9 represents part of the structures of:

- magnesium metal
- a magnesium alloy.

Figure 9



0 3 . 9 Explain why the magnesium alloy is harder than magnesium metal.

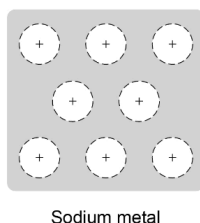
Use Figure 9.

[3 marks]

Q3. (2022)

0 4 . 7 Figure 12 represents the structure of sodium metal.

Figure 12



Sodium metal

Explain why sodium metal conducts electricity when solid.

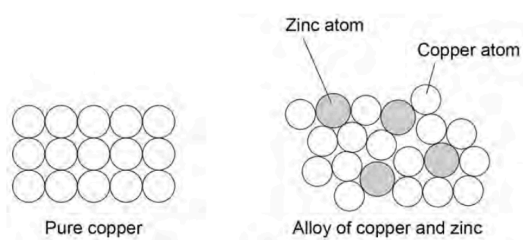
[2 marks]

Q4. (2024)

06.2

Figure 12 represents the structures of pure copper and of an alloy of copper and zinc.

Figure 12



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

Use Figure 12.

[3 marks]