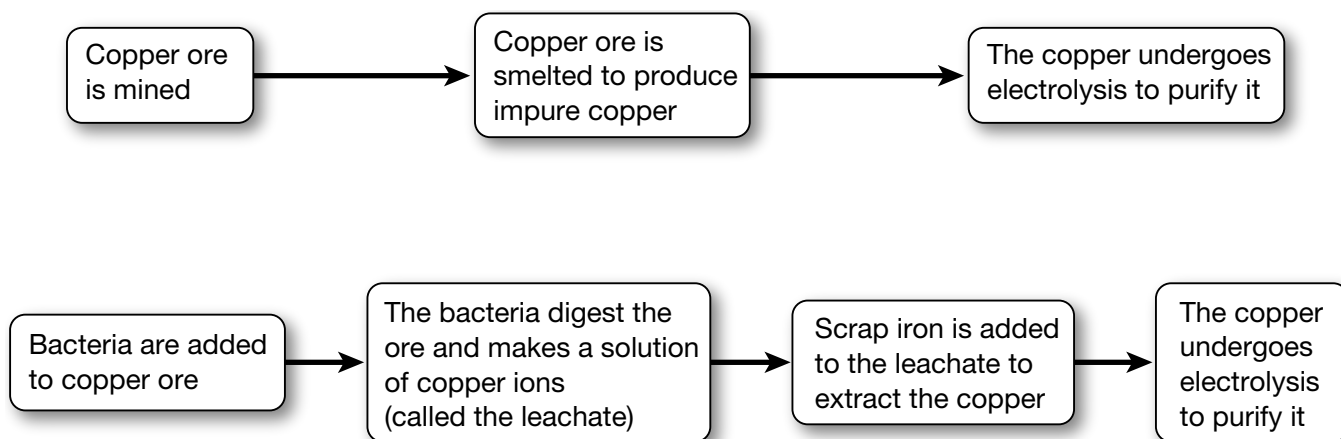


10

Copper is an important metal for use in electrical wires. In the past, most copper was extracted by mining. Now there are different ways to extract copper. One method is bioleaching.

**Figure 5** shows the flow diagrams for the processes of mining and bioleaching.

**Figure 5**



Use the flow diagrams and your knowledge to answer the following questions.

10.1

Give **two** reasons that bioleaching is better for the environment than mining.

**[2 marks]**

---



---



---

10.2

Scrap iron is used on the leachate to extract the copper. Scrap iron is cheap, but not every metal could be used to extract the copper from the leachate.

Explain why iron is able to extract the copper from the leachate. Do not give economic reasons for your answer.

**[2 marks]**

---



---



---