Extraction of metals

Question Paper

Level	O Level		
Subject	Chemistry		
Exam Board	Cambridge International Examinations		
Topic	Metals		
Sub-Topic	Extraction of metals		
Booklet	Question Paper		

Time Allowed: 8 minutes

Score: /7

Percentage: /100

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1 In the extraction of aluminium by electrolysis, its oxide is dissolved in molten cryolite. Cryolite is a sodium salt.

Aluminium is deposited at the1..... and it can be deduced that aluminium is2..... sodium in the reactivity series.

Which words correctly complete gaps 1 and 2?

	1	2		
Α	+ve electrod	above		
В	+ve electrod	below		
С	-ve electrod	above		
D	-ve electrod	below		

2 Metals usually occur in their ore combined with another element.

Which metal is least likely to occur combined with another element?

- **A** aluminium
- **B** calcium
- C magnesium
- **D** silver
- 3 Which element can only be extracted from its ore using electrolysis?
 - **A** calcium
 - **B** copper
 - C lead
 - **D** silver
- 4 Scrap iron is often recycled.

Which reason for recycling is **not** correct?

- **A** It reduces the amount of pollution at the site of the ore extraction.
- **B** It reduces the amount of waste taken to landfill sites.
- **C** It reduces the need to collect the scrap iron.
- **D** It saves natural resources.

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5 The position of metal M in the reactivity series is shown.

K, Na, M, Al, Zn, Fe, Pb, Cu, Ag

Which method will be used to extract M from its ore?

- A electrolysis of its aqueous sulfate
- B electrolysis of its molten oxide
- C reduction of its oxide by heating with coke
- D reduction of its oxide by heating with hydrogen
- 6 Some metals can be obtained by the reduction of their oxides with hydrogen.

Which line of the table is correct?

	aluminium	copper	silver	sodium	
Α	✓	✓	X	X	key
В	X	✓	✓	X	✓ = can be obtained
С	X	X	✓	✓	x = cannot be obtained
D	✓	x	✓	X	

- 7 Which statement is **not** a reason for the importance of recycling aluminium?
 - A Aluminium is a rare metal in the Earth's crust.
 - **B** The demand for aluminium continues to rise annually.
 - **C** The extraction of aluminium from its ore is expensive.
 - **D** The properties of aluminium make it one of the most useful of all metals.