# **ELECTROLYSIS (A)**

- 1 The electrolysis of molten aluminium fluoride produces aluminium (AI) at the negative electrode and fluorine (F<sub>2</sub>) at the positive electrode.
  - a Explain why solid aluminium fluoride does not conduct electricity but molten aluminium fluoride does. as a solid the ions cannot move to carry charge but when molten the ions can move to carry charge
  - b Give the formula of the ions in aluminium fluoride: aluminium ions AP fluoride ions F
  - c Give the formula of aluminium fluoride: AIF,
  - d Explain why aluminium ions go to the negative electrode.
    aluminium ions are positive and they are attracted to the negative electrode as opposite charges attract
  - Write a half equation for the formation of aluminium at the negative electrode. Al<sup>3−</sup> = 3e<sup>−</sup> → Al
  - f Explain whether the formation of aluminium is an exidation or reduction process, reduction as the aluminium ions gain electrons
  - g Explain whether the negative electrode is the anode or cathode. cathode as this is where reduction occurs
  - h Write a half equation for the formation of fluorine at the positive electrode. 2F 2e → F₂
- 2 Complete the table about the electrolysis of some molten ionic compounds.

molten substance	formula	negative electrode half-equation	positive electrode half-equation
calcium oxide	CaO	Ca2* + 2e* → Ca	20° - 4e → O₂
magnesium bromide	MgBr <sub>2</sub>	Mg <sup>2-</sup> + 2e <sup>-</sup> → Mg	28r" - 2e" → Br <sub>2</sub>
sodium chloride	NaCl	Na" + e" Na	2CΓ - 2e⁻ Cl <sub>2</sub>

# <u>Isa Electrolysis Mark Scheme</u>

**VM** Jensen

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