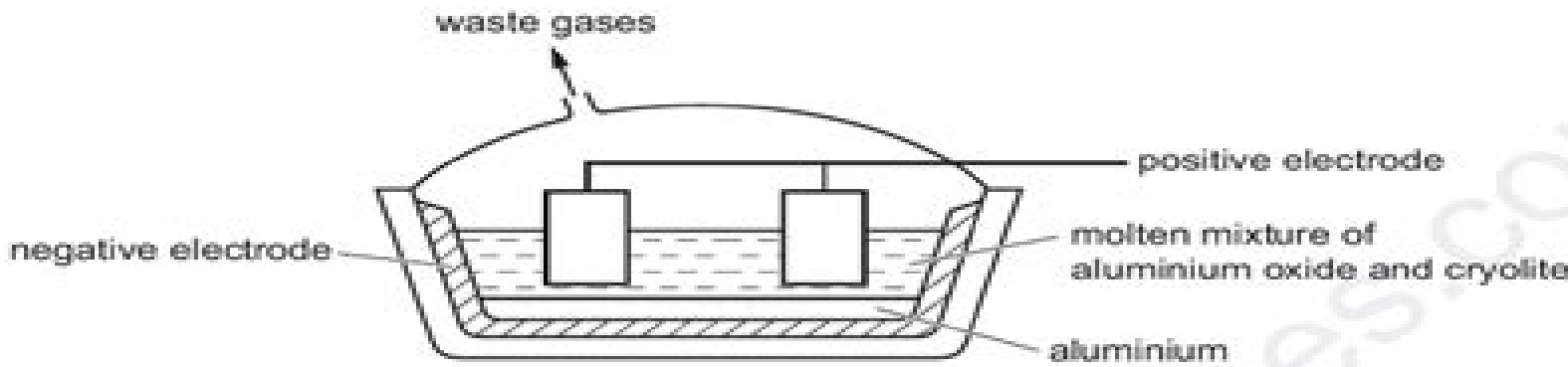


3 (a) Name the ore of aluminium which mainly consists of aluminium oxide.

Bauxite [1]

(b) Aluminium is produced by the electrolysis of aluminium oxide dissolved in molten cryolite.



(i) Give **two** reasons why the electrolysis is done using a molten mixture of aluminium oxide and cryolite instead of molten aluminium oxide only.

- 1 It improves conductivity or It is a better conductor
 - 2 It has a lower operating temperature.
- [2]

(ii) Write ionic half-equations for the reactions occurring at the electrodes.

positive electrode $2\text{O}^{2-} \rightarrow \text{O}_2 + 4\text{e}^-$

negative electrode $\text{Al}^{3+} + 3\text{e}^- \rightarrow \text{Al}$

[2]

(iii) The anodes are made of carbon and have to be replaced regularly.

Explain why the carbon anodes have to be replaced regularly.

Anodes(or carbon) react with oxygen to form carbondioxide.Hence they need to be replaced.

[2]

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**Rosemarie Gallagher, Rose Marie
Gallagher, Paul Ingram**



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