2

Question 27 (2 marks)

The diagram shows a particular cell with relevant half equations.

Zn Insulation KOH - HgO, Hg

$$\operatorname{Zn}(s) + 2\operatorname{OH}^-(aq) \rightarrow \operatorname{ZnO}(s) + \operatorname{H}_2\operatorname{O}(l) + 2\operatorname{e}^-$$

 $\operatorname{HgO}(s) + \operatorname{H}_2\operatorname{O}(l) + 2\operatorname{e}^- \rightarrow \operatorname{Hg}(l) + 2\operatorname{OH}^-(aq)$

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Identify the anode, cathode and electrolyte for this cell.

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