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Question 27 (2 marks)

The diagram shows a particular cell with relevant half equations.

Zn
Insulation
KOH
HgO, Hg

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

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

Identify the anode, cathode and electrolyte for this cell.

Anode - Zn
Cathode-HgO, Hg
Electrolyk - High KOH