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Question 27 (2 marks)

The diagram shows a particular cell with relevant half equations.

Zn
Insulation
KOH
HgO, Hg

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

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

Identify the anode, cathode and electrolyte for this cell.

 cenode	· · ·	2mczy	+ 20H Cas	->Zn Oci + HOn f.	2e
Collinge	e :	Haoris	+ H20;+	200 3 HOOF TOOK	
 ele drol	jle:	H ₂	0(()		w)

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