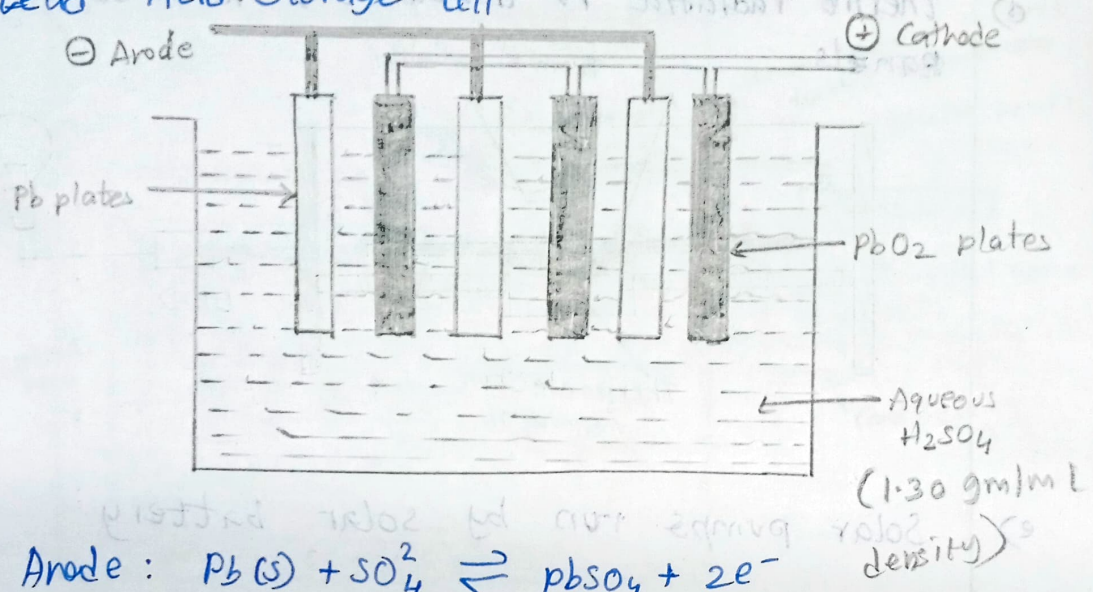
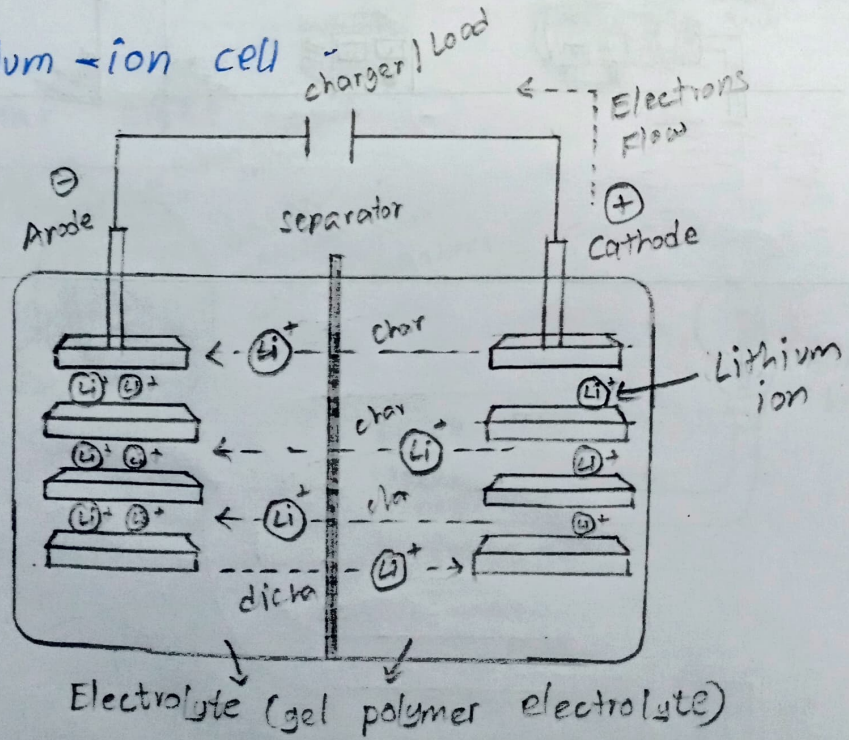


a) Lead - Acid Storage Cell

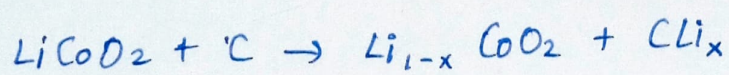


- * Anode: $Pb(s) + SO_4^{2-} \rightleftharpoons PbSO_4 + 2e^-$
(Oxidation)
- * Cathode: $PbO_2 + 4H^+ + SO_4^{2-} + 2e^- \xrightleftharpoons[\text{charge}]{\text{discharge}} PbSO_4 + 2H_2O$
- * Recharging:
 $2PbSO_4 + 2H_2O + \text{Energy} \xrightleftharpoons[\text{discharging}]{\text{charging}} Pb + PbO_2 + 2H_2SO_4$
- * discharge: (overall)
 $Pb + PbO_2 + 2H_2SO_4 \xrightleftharpoons[\text{charging}]{\text{discharging}} 2PbSO_4 + 2H_2O + \text{Energy}$

b) Lithium-ion cell



charging :



Discharging :

