Worksheet: Electrochemistry

IB · Class 12 · Chemistry · 5 questions · 13 marks

Name: _____	Date: _____	Score: _____ / 13

Q1. Calculate E_cell for Zn|Zn2+||Ag+|Ag (E(Zn2+/Zn) = -0.76 V, E(Ag+/Ag) = +0.80 V). *[2 marks]*

Q2. Find Lambda° for CH3COOH given lambda°(H+) = 349.8 and lambda°(CH3COO-) = 40.9 S cm^2/mol. *[2 marks]*

Q3. For 2Al + 3Cu2+ -> 2Al3+ + 3Cu, E° = 2.0 V. Calculate delta-G°. *[3 marks]*

Q4. Find the reduction potential of a Cu electrode in 0.001 M CuSO4 at 25 C (E° = +0.34 V). *[3 marks]*

Q5. A 0.05 M KCl solution has conductivity 0.007 S/m at 25 C. Find the molar conductivity. *[3 marks]*