1. Does the oxidizing agent react at the anode or at the cathode in a galvanic cell? Explain

2. What is the function of the salt bridge? What kind of electrolyte should be used in a salt bridge?

3. Write the balanced equation for the galvanic cell reaction expressed using shorthand notation below. $Ni_{(j)} \mid Ni^{2^+}_{(aq)} \mid Cl_{2(j)} \mid Cl_{(aq)} \mid Cl_$

Draw a galvanic cell that employs the above reaction. Label anode, cathode, salt bridge, direction of electrons and ion flow.

4. What is the relationship between thermochemical quantity and electrochemical quantity? Show equation and give example that's not from the notes.

