Fuel Cell Technology

B. E. Chemical Engineering + M.B.A. 4th/8th Semester

Time Allowed 1 Hour. Max. Marks 20

1. Why we use the term half-cell reaction in electrochemistry and how we will identify cathode and anode in a fuel cell? Give one examples of fuel cell reaction and identify which reaction is the cathode reaction and which reaction is the anode reaction.

- 2. Explain briefly with the help of mnemonic diagram, how energy can be transferred in a fuel cell from one form to another?
- 3. Why charge transfer reaction have an activation energy?
- 4. Why we need characterization of fuel cells? Explain briefly one in-situ characterization technique.