DEPARTMENT OF CHEMISTRY NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA THEORY EXAMINATION

Date: 12-04-2024

Mid-Term II (for ECE and EE)

Subject: Chemistry Maximum marks: 5x4 =20 Course code: CHIC-13 Time allowed: 50 mins

Answer to all question

- 1. What is exidation corresion? Describe the mechanism of exidation corresion (4 marks.)
- 2. How does the pitting corrosion occur on the surface of the iron and write any two prevention methods. (4 marks.)
- 3. Write a note on a) Molten carbonate fuel cells b) Alkaline fuel cells (4 marks)
- 4. Explain construction, working and application of Lead-acid battery along with reactions involved during charging and discharging. (4 marks)
- 5. A) Give two examples for secondary batteries (1 mark)
 - B) How is a fuel cell different than a battery (1 mark)
 - C) Write down the name of electrolyte and operating temperature range of SOFC (1 mark)
 - D) Write down the anodic and cathodic rection involved in water line corrosion (1 mark)