**ASSIGNMENT – UNIT III**

1. What is Electrode Potential? Explain with help of diagram of an electrode and the reactions involved for Anode and Cathode (Oxidation and Reduction).
2. What is the basic difference between an Electrolytic cell and Galvanic cell?
3. Give outline diagram of Galvanic cell with the reactions involved.
4. Describe a SHE with diagram and reactions.
5. Describe a Lead Acid accumulator with diagram and reaction of Charging and charging both.
6. What is the electrochemical theory of corrosion? Discuss the mechanisms involved.
7. Give details of anodic and cathodic protections.
8. Write notes on protective coatings and designing for prevention corrosion.
9. Explain why Iron is corroded while Gold is not.
10. Explain corrosion phenomenon involving oxide – film growth law.
11. What are the chemical compounds of Portland cement?
12. Explain the process of setting & hardening of cement with the reactions involved.
13. What is the role of gypsum in cement explain with reaction.
14. Write short note of P.O.P.
15. Classify lubricant.
16. Write the mechanism of lubrication based on Loads and Speed.
17. What are benefits of Lubrication
18. Write short notes on
19. Flash Point
20. Fire point
21. Cloud point
22. Pour point