Assignment 4

1. How many ways one can protect a metallic component from corrosion? Show detail classification.
2. Show the principles of cathodic and anodic protection with the help of mixed potential theory.
3. What is over-protection? What is shielding?
4. Show the importance of stray current? How can it be prevented from leading to greater corrosion damage of a metallic component?
5. What is active passive metal? It is better to go for anodic protection in case of active passive metal than cathodic protection at the same level of protection: Why?
6. How would change of environment affect corrosion?
7. What is design rule for avoiding crevice corrosion?
8. What are cathodic and anodic coatings?