



ABES Engineering College, Ghaziabad
B.Tech. First Year, Odd Semester, Session -2023-24
Engineering Chemistry (BAS102)

Question Bank (Previous Year University Questions and Practice questions)

Unit-3 Electrochemistry and Corrosion, Engineering Materials	
1.	Explain the construction and working of the Lead Acid Storage Battery with a suitable diagram and equations.
2.	Illustrate the construction and working of Standard Reference Electrode.
3.	What is the significance of the Nernst equation? Discuss the construction and working of Daniel cell.
4.	Mention the chemical composition of Portland Cement. Also, state the role of Gypsum in cement formation.
5.	Differentiate between primary and secondary cells?
6	Discuss the electrochemical theory of corrosion by taking an example of iron metal.
7.	What are cathodic protection methods to prevent corrosion?
8.	Discuss metallic coatings and the proper design of metal for corrosion prevention
9.	What are corrosion inhibitors?
10.	Give synthesis, properties and applications of Plaster of Paris.
11.	Discuss the manufacturing of Portland Cement.
12.	What are the factors affecting corrosion?
13.	How corrosion can be prevented by proper selection of metal and design of metal?
14.	What is the difference between concentration cell corrosion and Galvanic Series?
15.	Difference between anodic and cathodic coating?
16.	How corrosion can be prevented by modifying the properties of metal?
17.	How corrosion can be prevented by modifying the environment?
18.	What is dry or chemical corrosion?
19.	What are various units of corrosion?
20.	Difference between Galvanic Series and Electrochemical series.