



SCIENCE AND HUMANITIES DEPARTMENT

Vision: To excel in the field of technology by creating technocrats with value based professionalism.

Mission:

- To provide technical expertise to fulfill the needs of the industry.
- To impact ethical values & professional responsibilities.
- To achieve excellence in academics.

Subject Name: Basic Chemistry

Date: -

Assignment No:-1

Course Outcome: Predict the Structure, properties, and behavior of molecules and compounds based on the of chemicals **Topic Name: - Chemical Bonding**

Q .1 Distinguish between Covalent bond, Ionic bond.

Q.2 Write the properties of coordinate bond.

Q.3 Explain hydrogen bonding with example.

Q.4 Draw Crystal structures of

a. Simple cubic b. BCC, c. FCC, d.HCP.

Q.5 List the Four Properties of crystalline solids and amorphous solids.

Q.6 Metals are good conductors of heat and electricity and have a luster .Give Reason.

Q.7. Write a short note on Electronic theory of valency by Acharya kanad.

Q.8. Explain Formation of MgO Molecule.

Date of Submission: -

Assign By: - Mrs. Y.D.Wasu /Manasi Mahadik



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Subject Name: Basic Chemistry

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Assignment No:-2

Course Outcome: - Apply the concepts of electrochemistry and corrosion preventive measures in industry.

Topic Name: - Electrochemistry & Corrosion and Its applications

Q.1 Explain Cathodic and Anodic protection

Q.2 Choice of material-using pure metal and using metal alloy

Q.3 Write Faraday's First and Second Law of Electrolysis.

Q.5 Explain Mechanism of

1. Hydrogen evolution in acidic medium

2. oxygen absorption in neutral medium.

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Subject Name: Basic Chemistry

Date: -

Assignment No:-3
engineering material and catalyst appropriately.

Course Outcome: Use the appropriate

Topic Name: - Engineering Materials and Catalysis

Q.1. Define Paint and Varnishes

Q.2 Give the Characteristics and Applications & uses of paints and Varnishes

Q.3 Define Insulators and Give the classification.

Q.4:-Write the Difference Between Paints & Varnishes.

Q.5:-Write the difference between Thermosetting and Thermosoftening Polymers.

Q.6:- Write the Properties and applications of Phenol Formaldehyde Resin and Polystyrene.

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