

## **1. Electrochemistry & Chemical Bonding**

Q1. Differentiate between Electrovalent and Covalent bonds with examples. (3 Marks)

Q2. Write the electronic configuration of elements from atomic number 1 to 30. (5 Marks)

Q3. What is Valency? Differentiate between Electrovalency and Covalency. (3 Marks)

## **2. Pollution & Environmental Chemistry**

Q4. Define pollution and explain its effects on humans, animals, and plants. (5 Marks)

Q5. Differentiate between BOD and COD. (3 Marks)

Q6. Explain causes and control of pollution. (5 Marks)

Q7. Write a short note on Depletion of Ozone Layer. (3 Marks)

Q8. Explain Acid Rain with reactions. (5 Marks)

## **3. Engineering Materials & Metallurgy**

Q9. Explain the composition and uses of Brass and Bronze. (5 Marks)

Q10. What are plastics? Explain addition and condensation polymerization. (5 Marks)



