

## Polymerization

1. What do you understand by polymerization? Define degree of polymerization.
2. Explain mathematically Weight Average Molecular Weight, Number Average Molecular Weight and Viscosity Average Molecular Weight.
3. Write down the structure and properties of natural rubber
4. Give outline of preparation, structure & uses of SBR, PE, Bakelite, nylon-66, Nylon-6, PP, PVC, Polyester and natural rubber
5. Write short notes on biodegradable polymer, difference between Thermoplastic and thermosetting polymer.
6. Discuss the preparation and use of SBR, Buna-S, Buna-N, LDPE, HDPE, LLDPE, UHMWPE
7. Define Isotactic, syndiotactic and atactic polymers and give examples each.
8. What are extrinsic and intrinsic semiconductors? Explain with examples
9. What is conducting polymer? Give example.
10. How semi conducting polymer converted to high conducting polymer by p type doping and n type doping.
11. What is glass transition temperature?
12. Differentiate thermoplastic and thermosetting polymer
13. What is vulcanization of rubber?
14. What is the chemical structure of isoprene and neoprene?
15. What is vulcanization of rubber?
16. Write short notes on plasticizer.