

Board – CBSE

Class – 12th

Topic – Polymers

1. Write the name and structure of one of the common initiators used in free radical addition polymerization.
2. Write monomers of polystyrene and PVC.
3. Give preparation of polyacrylonitrile
4. What is the monomer of natural rubber?
5. Write uses of bakelite and melamine.
6. Give the monomer and preparation of Buna – S.
7. How are the characteristics of natural rubber modified?
8. What is a biodegradable polymer? Give an example of a biodegradable aliphatic polyester.
9. What are the monomeric repeating units of Nylon-6 and Nylon-6, 6?
10. How does the presence of double bonds in rubber molecules influence their structure and reactivity?
11. How are neoprene & Buna – N prepared? Which one is a copolymer?
12. What is the basic difference between following pairs:
(a) Elastomers and fibers (b) Thermosetting polymer & thermoplastic polymers.
13. How are addition polymers different from condensation polymers?
14. Discuss the main purpose of vulcanization of rubber
15. How is dacron obtained from ethylene glycol and terephthalic acid?
16. Explain the term copolymerization and give two examples.
17. Distinguish between the terms homopolymer and copolymer and give an example of each.
18. How are polymers classified on the basis of structure?
19. Differentiate between LDP and HDP.
20. Explain the mechanism of polymerization of ethene.