



CHEMISTRY

CH: 14 POLYMERS

Name: _____

Date: _____

Class: XII Sec: ____

I

Answer the following

1. Draw the structure of monomers of the following polymers.
i) Polypropene ii) Polythene iii) Nylon 6 iv) Buna S v) Dacron vi) Neoprene vii) Teflon
Nylon 6,6 Glyptal
2. What are elastomers? Give examples of elastomers.
3. What does the part 6,6 mean in the name Nylon 6,6 ?
4. What is the primary structure feature necessary for a molecule to make it useful in a condensation polymerization reactions?
5. Classify the following into addition and condensation polymers.
a) Polythene b) PTE c) Polybutadiene d) Bakelite
6. Write the names of the monomers of the polymer.
 $-(\text{NH}-(\text{CH}_2)_6-\text{NH}-\text{CO}(\text{CH}_2)_4-\text{CO}-)_n$
7. Define ambident nucleophile.
8. Write the role of sulphur in vulcanization of rubber
9. What are biodegradable polymers? Give an example of such a polymer and mention its uses.
10. How does the presence of double bonds in rubber molecules influence their structure and reactivity
11. What is the difference between homopolymer and copolymer. Give examples/
12. Classify the following as addition and condensation polymers.
Polythene, PTFE, Bakelite, Polybutadiene
13. A condensation polymer finds use in making unbreakable crockery . Identify the polymer. How is it obtained?
14. Represent the polymerization of caprolactum monomer and name the product. Mention two uses of the product formed.
15. What are LDP and HDP ? How are they obtained ? What are their properties and uses ?