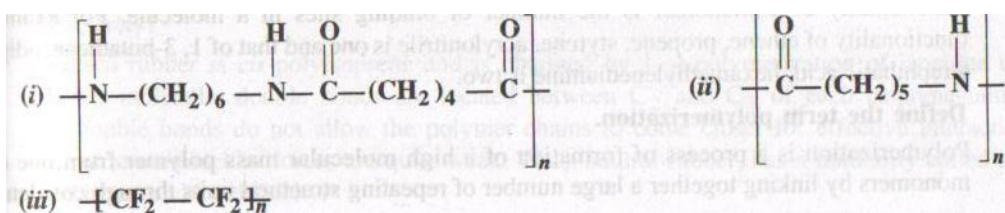


**SUBJECT : CHEMISTRY**  
**CLASS : XII**  
**WORKSHEET : III**

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## CHAPTER – POLYMERS

1. Write the names of monomers of the following polymers:



2. Arrange the following polymers in increasing order of their intermolecular forces.
- Nylon 6, 6, Buna-S, Polythene
  - Nylon 6, Neoprene, Polyvinyl chloride
3. Define the term polymerization.
4. Is  $\text{NH}-\text{CHR}-\text{CO}$  a homopolymer or a copolymer?
5. How can you differentiate between addition and condensation polymerization?
6. Define thermoplastics and thermosetting polymers.
7. Write the monomers used for getting the following polymers.
- Polyvinyl chloride
  - Teflon
  - Bakelite
8. Discuss the main purpose of vulcanization of rubber.
9. Write the names and structures of the monomers of the following polymers:
- Buna-S
  - Buna-N
  - Bacron
  - Neoprene
10. How is decron obtained from ethylene glycol and terephthalic acid?
11. What is a biodegradable polymer? Give an example of a biodegradable aliphatic polyester.
12. What does '6, 6' indicate in the name nylon -6,6?
13. What is the function of sulphur in vulcanization of rubber?
14. Mention which of the following are addition polymers:
- Terylene
  - Nylon-6, 6
  - Neoprene
  - Teflon

- 15.** Differentiate the following pair of polymers based on the property mentioned against each.
- a) Novolac and bakelite (structure)
  - b) Buna-S and terylene (intermolecular forces of attraction)
- 16.** a) What is the role of benzoyl peroxide in polymerization of ethane?  
b) What are LDPE and HDPE? How are they prepared?
- 17.** Give one example each of
- (a) Addition polymers
  - (b) Condensation polymers
  - (c) Copolymers
- 18.** Classify the following as addition and condensation polymers:  
Terylene, Bakelite, Polyvinyl chloride, Polythene