



# CBSE 12th Chemistry Chapter- 15 (Polymers)

## Unsolved Important Questions

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### SECTION A

*(Each question in this section carry 1 mark)*

- Q.1. Give an example of elastomers.**
- Q.2. Define biodegradable polymers?**
- Q.3. Devine the term 'Polymerization'.**
- Q.4. What does '6.6' indicate in the name nylon-'6.6'?**
- Q.5. How can you describe this designation 6, 6, mean in the name nylon -6, 6?**
- Q.6. Is  $(-CH_2 - CH -)_n$  a homopolymer or a copolymer.**
- Q.7. Which of the following is a natural polymer?**  
Buna-S, Proteins, PVC

### SECTION B

*(Each question in this section carry 2 mark)*

- Q.8. What is the repeating unit in the condensation polymer obtained by combining  $HO_2CCH_2CH_2CO_2H$  (succinic acid) and  $H_2NCH_2NH_2$  (ethylene diamine).**
- Q.9. Arrange the following polymers in increasing order of their intermolecular force:**  
(i) Nylon 6, 6, Buna-S, Polythene.  
(ii) Nylon 6, Neoprene, Polyvinyl chloride.

Q.10. Draw the structure of the monomer for each of the following polymers:

(i) Nylon6

(ii) Polypropene

Q.11. What are thermoplastic and thermosetting polymers? Give one example of each.

Q.12. Differentiate between molecular structures and behaviors of thermoplastic and thermosetting polymers. Give one example of each type.

Q.13. Draw the molecular structures of the monomers of:

(i) PVC

(ii) Teflon

Q.14. Give the preparation and use of PVC (Polyvinyl Chloride)

Q.15. Define thermoplastic and thermosetting polymers. Give one example of each.

Q.16. What is a biodegradable polymer? Give an example of a biodegradable aliphatic polyester.

Q.17. Write the name of the monomers used for getting the following polymers:

(i) Bakelite

(ii) Neoprene

## SECTION C

*(Each question in this section carry 3 mark)*

Q.18. Write the name and structures of the monomers of the following polymers:

(i) Nylon-6, 6

(ii) PHBV

(iii) Neoprene



**Q.19. Write the names and structures of the monomers of the following polymers**

- (i) Buna-S**
- (ii) Neoprene**
- (iii) Nylon-6**

**Q.20. Give one example each of.**

- (i) addition polymers,**
- (ii) condensation polymers,**
- (iii) copolymers.**

**Q.21. Write the names and structures of the monomers of the following polymers:**

- (i) Buna- S**
- (ii) Neoprene**
- (iii) Nylon-6, 6**

**Q.22. After the ban on plastic bags, students of one school decided to make the people aware of the harmful effects of plastic bags on environment and Yamuna river. To make the awareness more impactful they organized rally by joining hands with other schools and distributed paper bags to vegetable vendors, shopkeepers and departmental stores. All students pledged not to use polythene bags in future to save Yamuna river.**

**After reading the above are above message, answer the following questions:**

- (i) What values are shown by the students?**
- (ii) What are biodegradable polymers.? Give on example.**
- (iii) Is polythene a condensation or an addition polymer?**

**Q.23. Write the name and structures of the monomers of the following polymers:**

- (i) Nylon-6, 6**
- (ii) PHBV**
- (iii) Neoprene**

**Q.24. Write the structure of the monomers used for getting the following polymers:**

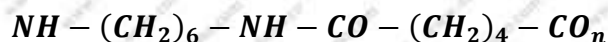
- (i) Dacron**
- (ii) Melamine – formaldehyde polymer**
- (iii) Buna-N**

Q.25. Write the names and structures of the monomers of the following polymers:

- (i) Buna- S
- (ii) Neoprene
- (iii) Nylon-6, 6

Q.26. (i) What is the role of t-butyl peroxide in the polymerization of ethene?

(ii) Identify the monomers in the following polymer:



(iii) Arrange the following polymers in the increasing order of their intermolecular forces: Polystyrene, Terylene, Buna-S.

Q.27. Draw the structures of the monomers of the following polymers:

- (i) Polythene
- (ii) PVC
- (iii) Teflon

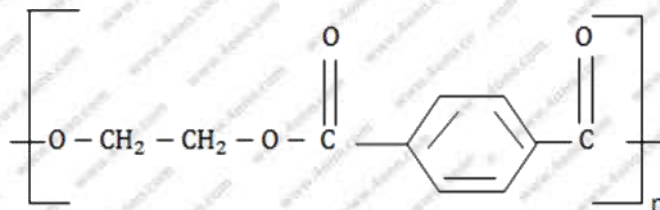
Q.28. Differentiate between thermoplastic and thermosetting polymers. Give one example of each.

Q.29. Write the names and structure of the monomers of the following polymers:

- (i) Terylene, (ii) Buna-S, (iii) Neoprene

Q.30. (i) What is the role of Sulphur in the vulcanization of rubber.

(ii) Identify the monomers in the following polymer:



(iii) Arrange the following polymers in the increasing order of their intermolecular forces: Terylene, Polyethylene, Neoprene.

Q.31. Write the structures of the monomers used for getting the following polymers:

- (a) Nylon-6, 6
- (b) Melamine-formaldehyde polymer
- (c) Buna-S

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