

BHARATIYA VIDYA BHAVAN'S V M PUBLIC SCHOOL, VADODARA

QUESTION BANK

CHAPTER 15 POLYMERS

Vary short answer type questions

[01 marks]

- 1) Define monomer.
- 2) What are polymers?
- 3) Define the term 'Polymerisation'.
- 4) Which of the following is a natural polymer?
Buna-S, protein, PVC
- 5) Give an example of elastomers.
- 6) Name natural elastomers.
- 7) Write name of a synthetic polyamide.
- 8) Based on molecular forces, what type of polymer is neoprene?
- 9) Which of the following is a fibre? Nylon, Neoprene, PVC
- 10) What is the repeating structural unit in polythene polymer?

Short answer type questions

[02 marks]

- 1) What are natural and synthetic polymers? Give two examples of each type 2)

What are the names of monomers used for getting the following polymers:

- (i) Bakelite (ii) Neoprene

- 3) Write the names of monomers used for getting the following polymers?

- (i) Terylene (ii) Nylon-6,6

- 4) Write the names of monomers used for getting the following polymers:

- (i) Teflon (ii) Buna-N

- 5) Name the polymer used name of monomeric units involved in its formation.

- 6) How will you differentiate between LDP and HDP?

- 8) How the following resin's intermediate is prepared and which polymer is formed by this monomer unit?

9) Why does cis-polyisoprene possess elastic property?

10) What is a biodegradable polymer? Give an example of a biodegradable aliphatic polyester.

Short answer type questions

[03 marks]

- 1) Explain the following terms giving a suitable examples for each: (i) Elastomers (ii) Condensation polymers (iii) Addition polymers
- 2) Write the structure and one use of each of the following polymers. (i) PVC (ii) Urea-formaldehyde resin (iii) Bakelite
- 3) Write the names and structures of the monomers of the following polymers. (i) Buna-S (ii) Neoprene (iii) Nylon-6,6
- 4) Write the names and structures of the monomers of the following polymers. (i) polystyrene (ii) Dacron (iii) Teflon
- 5) Write the names and structures of the monomers of the following polymers. (i) Bakelite (ii) Nylon-6 (iii) Polythene
- 6) Write the chemical equation for the synthesis of (i) Terylene (ii) Neoprene (iii) Teflon
- 7) Write chemical equation for the synthesis of : (i) Nylon-6 (ii) Nylon-6,6 (iii) Polythene
- 8) Write the free radical mechanism for the polymerisation of ethene.
- 9) Give one example each of:
(i) Addition polymers (ii) Condensation polymers (iii) Copolymers
- 10) What are the different types of polymers based on their structure? Give one example of each kind.