

Chemistry Worksheet
Polymer Class XII

Q1. Answer the following:

- a. Name the type of reaction involved in the formation of PVC.
- b. Write the reaction of preparation on Neoprene.
- c. Arrange the following polymers in decreasing order of intermolecular force.

PVC, Nylon-6,6, Natural rubber

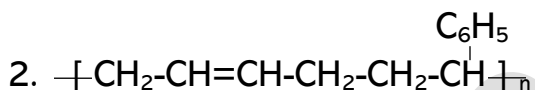
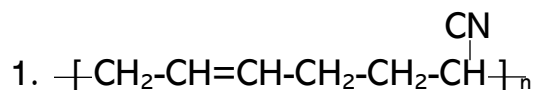
d. Write the names and structures of monomers of the following polymers:

a. Neoprene b. Nylon-6,6 c. PHBV

d. Glyptal e. Dacron f. Buna-S

b. Write the name of the monomers of polymers used for making unbreakable crockery.

Q2. a. Identify the monomer in the following polymeric structure:



b. On the basis of forces between their molecules in a polymer to which class does Neoprene belong?

c. Can both addition and condensation polymerization result in the formation of a copolymer?

d. Justify the role of teri-butyl peroxide in the polymerization of ethene.

Q3. Name the type of reaction involved in the formation of the following polymers from their respective monomers:

a. PVC b. Nylone c. PHBV

Q4. Write the chemical equation for the synthesis of:

a. Terylene b. Neoprene c. Teflon