

UNIT - 15

POLYMERS

1 Mark Questions

1. Arrange the following polymers in the increasing order of their intermolecular forces. Also classify them as addition and condensation polymers: Nylon 66, Buna-S, Polythene
2. Give name and structure of reagent used for initiating a free radical chain reaction?
3. Why is cationic polymerisation preferred in case of Vinylic monomers containing electron donating groups?
4. Arrange the following in the increasing order of their intermolecular forces Nylon – 66, Buna-S, Polythene.

2 / 3 Marks Questions

1. State the significance of numbers in the polymer name nylon –6 and nylon – 66.
2. What are linear polymer and branched chain polymers. How do these differ from cross-linked polymers?
3. Write the difference between polyacrylates and polyesters.
4. Differentiate between chain growth and step growth polymerization.
5. Write the structure of a reagent used for initiating a free radical chain reaction.
6. Will you prefer to polymerize, acrylonitrile under anionic or cationic polymerization?
7. How does the presence of CCl_4 influence the course of vinyl free radical polymerization?
8. Why does styrene undergo anionic polymerization easily?
9. How vulcanization does changes the character of natural rubber?