

- Q.26 Give the advantages and disadvantages of solution polymerization
- Q.27 Write the properties and uses of Polystyrene
- Q.28 Give the uses of urea formaldehyde resin and write its properties
- Q.29 What are plasticizers? Explain their working in brief
- Q.30 Give the importance of stabilizers in plastic industry
- Q.31 Discuss about the calendering process for fabric industry
- Q.32 What is polymerization? Explain the term degree of polymerization
- Q.33 Write about injection molding process
- Q.34 Give the structure of nylon 66 with its two uses
- Q.35 Explain the effects of molecular weight on properties of polymer

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write about the blow moulding process with its labelled diagram
- Q.37 Write properties and uses of polyvinyl chloride and explain its structure with its chemical formula
- Q.38 Write a short note on
- Coloring matters
  - Bakelite

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#### **4th Sem / Chem Subject:- Polymer Technology**

Time : 3Hrs.      M.M. : 100

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 SBR is a
- Natural rubber
  - synthetic polymer
  - another name of silicone rubber
  - a synthetic monomer
- Q.2 Epoxy resin is
- Not used for surface coating
  - a good abrasive
  - an elastomer
  - a polyester
- Q.3 Bakelite is a/an
- Additional polymer
  - elastomer
  - thermoplastic
  - none of these
- Q.4 \_\_\_\_\_ is a copolymer
- Nylon 66
  - PVC
  - neoprene
  - polythene

- Q.5 Silicon is a/an  
 a) Monomer  
 b) inorganic polymer  
 c) thermoplastic material  
 d) natural polymer
- Q.6 Polythene is a/an  
 a) addition polymerization product  
 b) thermosetting material  
 c) condensation polymerization product  
 d) none of these
- Q.7 \_\_\_\_\_ is a thermosetting plastic  
 a) PVC                    b) polythene  
 c) Bakelite              d) Polystyrene
- Q.8 Main constituent of cotton fiber is  
 a) Lignin                b) cellulose  
 c) starch                d) gelatin
- Q.9 Teflon is  
 a) Phenol formaldehyde  
 b) an organic polymer  
 c) polytetra florouethylene  
 d) none of these
- Q.10 Cellulose is the main constituent of the most \_\_\_\_\_ fiber  
 a) Acrylic                b) spandex  
 c) synthetic              d) natural

## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is thermoplastic?  
 Q.12 What is the full form of LDPE?  
 Q.13 Polymer made of more than one monomer are called?  
 Q.14 Define the word viscosity  
 Q.15 Name any two thermosetting plastics  
 Q.16 What is the chemical formula of isoprene?  
 Q.17 What are homopolymers?  
 Q.18 Define bulk polymerization  
 Q.19 Name any one biodegradable polymer  
 Q.20 Give one example of solution polymerization

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define the following term with one example  
 a) Fiber                    b) Monomers
- Q.22 Write the effects of molecular weight on the property of polymer
- Q.23 Explain in detail about addition polymerization
- Q.24 Give the brief description of co polymer
- Q.25 Differentiate between solution polymerization and emulsion polymerization