

- Q.29 Discuss the properties of Teflon and give its uses
- Q.30 With neat sketch explain the technique of calendering
- Q.31 Write about the process of extrusion in rubber industry
- Q.32 Define the term additives explain in detail about any two additives
- Q.33 Explain the process of blow moulding of polymer
- Q.34 Write properties and uses of polyvinyl chloride
- Q.35 Explain the function of fillers in plastic industry

SECTION-D

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

- Q.36 Explain the working of injection moulding with the help of neat diagram
- Q.37 Give the structure of nylon 66 with its properties and uses
- Q.38 Differentiate between step growth polymerization and chain growth polymerization

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4th Sem / Branch : CHEMICAL ENGINEERING

Subject:- POLYMER TECHNOLOGY

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Polyvinyl chloride is amaterial
- a) thermoplastic b) thermosetting
- c) fibrous d) chemical active
- Q.2 Thermosetting materials
- a) are closed linked molecules
- b) soften on applications of heat
- c) are solvent soluble
- d) none of these
- Q.3 Polymers are
- a) Micro molecules b) macromolecule
- c) macromolecules d) none of these
- Q.4 is a natural fiber
- a) Cellulose b) Dacron
- c) Nylon 6 d) none of these

- Q.5 Which of the following is not a natural fiber
 a) silk b) Viscose rayon
 c) cotton d) wool
- Q.6 Nylon 6 is a
 a) polyester b) thermosetting resin
 c) polyamide d) none of these
- Q.7 Main constituent of natural rubber is
 a) poly chloroprene b) Polyesterin
 c) polyisoprene d) polybutadine
- Q.8 Neoprene is a
 a) Monomer b) synthetic rubber
 c) polyester d) none of these
- Q.9is an addition polymer
 a) Nylon b) Bakelite
 c) polythene d) none of these
- Q.10 Phenol formaldehyde is also Known as
 a) Teflon b) Bakelite
 c) polyester d) nylon 66

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What are thermosetting plastic ?
 Q.12 Define the word polymer

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- Q.13 What is the full form of hdpe ?
 Q.14 What is the range of molecular weight of plastics ?
 Q.15 Define density
 Q.16 Name any two thermoplastics
 Q.17 Write chemical formula of tetraflouroethane
 Q.18 What are copolymers ?
 Q.19 What do you understand by suspension polymerization
 Q.20 Give an example of emulsion polymerization

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss the following term with an example
 a) monomer b) plastic
- Q.22 Differentiate between molecular weight and atomic weight
- Q.23 Explain in detail about condensation polymerization
- Q.24 Writing detail about copolymerization
- Q.25 Differentiate between bulk polymerization and suspension polymerization
- Q.26 Give the advantage and disadvantage of addition polymerization
- Q.27 Write the properties and uses of polyester
- Q.28 What are cross linking agents and how do they work ?

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