

- 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) polybutadiene

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 tetraflouoroethane
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 the work ?

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