Q.20 Discuss polymer dissolution process

Q.21 Explain manufacturing of Poly-ethylene from ethylene monomer

Q.22 Explain factors and agents for polymer degradation

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Write the structure of the compounds whose name are given below:

a) Phenols

b) Aniline

c) Acetic acid

d) Cyclo-pentane

Q.24 Explain polymer recyling, its need and various methods of recycling

Q.25 Write short note on :

a) Flory-Huggins theory

b) Secondary bonding in polymers and its types

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2nd Sem. / Plastic Technology

Subject : Polymer Chemistry

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Carbons forms_____ bonds.

a) One b) Two

c) Three d) Four

Q.2 Isomers have same atomic number and different _____.

a) Mass number

b) Electronic configuration

c) Number of electrons

d) None of the above

Q.3 General formula for alkane is_____.

a) C_nH_{2n} b) C_nH_n

c) C_nH_{2n+2} d) C_nH_{2n-2}

Q.4 A high molecular weight molecule that is built of a large number of small molecules is known as a ____

a) monomers b) polymers

c) isomers d) tautomers

Q.5 The following plastic bottles are commonly collected for recycling

a) PET b) HDPE

c) Both (a) and (b) d) PS

Q.6 Nylon is an example of

a) Polyamide b) Polyester

c) Polyethene d) Polysaccharide

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Functional group of acid is_____.

Q.8 Resin identification code for PET is_____.

Q.9 Suffix for compound having double bond is _____.

Q.10 _____polymer is prepared by Methyl Metha Acrylate

Q.11 Fourth member of alkene series is_____.

Q.12 Addition of Hydrogen is called_____.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain classification of organic compounds (in brief)

Q.14 Write general formula for:

a) Alcohols b) ethers

c) ketones d) aldehydes

Q.15 Explain Geometrical isomerism of polymers

Q.16 Compare secondary bonding with primary bonding

Q.17 Discuss concept of macromolecules

Q.18 State properties and applications of Acrylonitrile

Q.19 Explain crystalline and amorphous structure of polymers.