

Q.21 What are organic Compounds. give any four examples.

Q.22 Write a note on London dispersion forces, with one example.

SECTION-D

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

Q.23 What are petrochemicals . Give two monomers obtained from petrochemicals , also give their manufacturing techniques.

Q.24 What is need of plastics recycling. Define primary, secondary and tertiary recycling.

Q.25 Write a note on

- a) Racemic Mixtures
- b) Chiral carbon atom.

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2nd Year / 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 The compounds which are made up of carbon are called

- a) Inorganic b) Organic
- c) Metals d) Non Metals

Q.2 Vander vaal forces are

- a) Primary bonding forces
- b) Secondary bonding Forces
- c) Covalent forces
- d) Ionic forces

Q.3 The viscosity is the property of

- a) Solids b) Liquids
- c) Gases d) Both B & C

- Q.4 PVC is made up of
- | | |
|-------------|-------------------|
| a) Ethylene | b) Vinyl chloride |
| c) Styrene | d) Phenol |

- Q.5 Polymers are
- | | |
|-------------|-----------------|
| a) Natural | b) Synthetic |
| c) Plastics | d) All of above |

- Q.6 Recycling of polymers
- | |
|------------------------------|
| a) Necessity of present time |
| b) Wastage of resources |
| c) Increase pollution |
| d) Is not desirable |

SECTION-B

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

- Q.7 Define Polymers
- Q.8 Write the structure of vinyl chloride.
- Q.9 Define Isomers
- Q.10 R-COOH is the functional group of which type of compound.

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- Q.11 Define macromolecules.
- Q.12 Write Structure of any Phenol .

SECTION-C

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

- Q.13 Write the IUPAC name of following compounds
- | |
|--|
| a) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$ |
| b) $\text{CH}_3\text{-CH}_2\text{-CH=CH}_2$ |
- Q.14 With one example, write a note on Hydrogen bonding
- Q.15 Write any two properties and two applications of Propylene.
- Q.16 What is polymer stabilization . give two examples of polymer stabilizers.
- Q.17 What are functional groups. Write the name of any two functional groups with examples .
- Q.18 With one example , Write a short note on Di [pole-Dipole forces.
- Q.19 What is a polymer solution . how is it formed.
- Q.20 Write a note on optical isomerism. Give one example.

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