

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

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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.

**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.  $(6 \times 1 = 6)$

- 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.

- 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.  $(8 \times 4 = 32)$
- 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 [polar-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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