

### SECTION-D

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

- Q.23 Write primary, secondary and tertiary methods of polymer recycling.
- Q.24 Write various steps, which take place during polymer dissolution.
- Q.25 Write a note on following
- Cis and Trans Isomerism
  - Biodegradable Polymers with two examples.

No. of Printed Pages : 4

222224

Roll No. ....

### Sem. 2nd/ Plastic Technology Sub. : Polymer Chemistry

Time : 3 Hrs.

M.M. : 60

### SECTION-A

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

- Q.1 R-COOH is functional group of
- Alcohol
  - Acid
  - Aldehyde
  - Ketone
- Q.2 The property, which affect the flow of fluids by its own is called
- Velocity
  - Viscosity
  - Pressure
  - None of above
- Q.3 The calorific value of plastics is \_\_\_\_\_ than calorific value of coal
- Less
  - More
  - Equal
  - None of above

- Q.4 Benzene is
- a) Aliphatic                      b) Open Chain  
c) Aromatic                      d) All of above
- Q.5 Methanol is
- a) Acid                              b) Alcohol  
c) Aldehyde                      d) Ketone
- Q.6 Covalent bond is
- a) Primary bond  
b) Secondary bond  
c) Vanderwaals Force  
d) None of above

### SECTION-B

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

- Q.7 Expand the term IUPAC.
- Q.8 Give one example of Straight chain hydrocarbon
- Q.9 Name any one intermolecular force.
- Q.10 Define Polymer solution.
- Q.11 Define Viscosity.
- Q.12 Write structure of Phenol.

(2)

222224

### SECTION-C

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

- Q.13 Define straight chain and branched chain hydrocarbon, with one example of each.
- Q.14 Write the names of following organic compounds.
- Q.15 What are alkenes? Give the general form of each.
- Q.16 Write the structure of
- a) Ethylene Glycol                      b) Ethanoic acid
- Q.17 Define following
- a) Intra molecular forces  
b) Intermolecular forces
- Q.18 What is Chiral Carbon atom? Draw structure of any one chiral carbon atom.
- Q.19 Write a note on the formation of hydrogen bond.
- Q.20 What is difference between saturated hydrocarbon and unsaturated hydrocarbon compound?
- Q.21 How size of polymer molecule effect its dissolution.
- Q.22 What are aromatic hydrocarbons? Give two examples.

(3)

222224