

SECTION-D

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

Q.23 What are the petrochemicals? Give the definition of following petrochemicals?

- a) Olefins
- b) Aromatics

Q.24 What is the meaning of polymer degradation? Write two factors which affect polymer degradation.

Q.25 Write a note on

- a) Hydrogen bonding in polymers
- b) Polar and non polar molecules.

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Roll No.

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 Alkenes compounds are

- a) Saturated
- b) Unsaturated
- c) Neither a nor b
- d) Both a & b

Q.2 R-OH is a functional group of

- a) Alcohol
- b) Acid
- c) aldehyde
- d) ketone

Q.3 Single layered poly bags are recycled using

- a) Primary recycling method
- b) Secondary recycling method
- c) Tertiary recycling method
- d) None of above

Q.4 Bi functional compounds have

- a) One functional group
- b) Two functional group
- c) three functional group
- d) Four functional group

Q.5 Electro negativity is property of

- a) Atom b) Molecule
- c) Both a & b d) None of a & b

Q.6 C_nH_{2n} is general formula of

- a) Alkanes b) Alkenes
- c) Alkynes d) All of above

SECTION-B

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

Q.7 Define organic compound.

Q.8 Write the structure of ethylene.

Q.9 All plastics are organic polymers. (T/F)

Q.10 Define alkanes.

Q.11 Expand the term IUPAC.

Q.12 Write the formula of benzene.

SECTION-C

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

Q.13 What is difference between organic compounds and hydrocarbons?

Q.14 Write the IUPAC names of following compounds.

Q.15 What are poly functional compounds? Give two examples.

Q.16 What is the phenomenon of isomerism? Give one example of functional isomers.

Q.17 What are racemic mixtures give one example.

Q.18 How molecular weight of polymer affect dissolution of polymer.

Q.19 Write four reasons of plastics recycling.

Q.20 Define viscosity. How is it related to molecular weight of polymer.

Q.21 Write the structure of phenol. Give its two properties.

Q.22 What are London dispersion forces.