

Q.21 What is difference between polymer degradation and polymer stabilization?

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Q.22 Write the structure of

- a) Ethanol
- b) Vinyl chloride

2nd Sem. / Plastic Technology

Subject : Polymer chemistry

Time : 3 Hrs.

M.M. : 60

SECTION-D

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

Q.23 What is the need of polymer recycling? Explain primary recycling, secondary recycling, tertiary recycling.

Q.24 Write the complete polymer dissolution process.

Q.25 What are organic compounds?

- a) Define open ended organic compounds.
- b) Define closed ended organic compounds.

Give one example of each.

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

Q.1 Polymers are

- a) Micromolecules
- b) Macromolecules
- c) Atoms
- d) Protons

Q.2 The effect of M.W. of polymers on dissolution time is

- a) The dissolution time increases with increase in M.W.
- b) The dissolution time decreases with increase in M.W.
- c) The dissolution time will remains uneffected with increase in M.W.
- d) None of the above

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Q.3 The major source of monomers is
a) Trees b) Crops
c) Petrochemicals d) Animals

Q.4 Recycling of polymers
a) Increases plastics waste
b) Decreases plastics waste
c) Increases pollution
d) None of above

Q.5 Isocynates are
a) Highly toxic b) Not toxic
c) Mildly toxic d) None of above

Q.6 R-OH is a functional group of
a) Acids b) Alcohols
c) Alkanes d) Alkynes

SECTION-B

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

Q.7 Expand the term IUPAC.

Q.8 Write the functional group present in acids.

Q.9 Secondary bonding forces are stronger than primary bonding forces. (T/F)

Q.10 Define the term macromolecules.
Q.11 Write the formula of ethylene.
Q.12 Define the term polymer.

SECTION-C

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

Q.13 What is degraded polymer? Write two factors/agents which affect polymer degradation.

Q.14 What are petrochemicals, what is their use in plastics industry?

Q.15 Write the affect of structure of polymer on dissolution of polymers.

Q.16 With one example define cis and trans isomerism.

Q.17 Define polyfunctional compounds, give one example.

Q.18 What is difference between intermolecular and intramolecular forces. Give one example of each.

Q.19 Define the term viscosity. How the viscosity of dilute polymer solution is measured?

Q.20 Write the manufacture and two applications of VC monomers.