

- Q.19 What are agents for increasing life expectancy of polymers.
- Q.20 Write merits and demerits of recycling.
- Q.21 Write short note on segregation.
- Q.22 Explain equipment based sorting techniques of plastic waste.

SECTION-D

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

- Q.23 Write short note on-
- a) Incineration
 - b) Landfill
- Q.24 Explain briefly process flow chart of mechanical route and basics of mechanical recycling.
- Q.25 Explain plastic waste management and their disposal techniques of plastic wastage.

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5th Sem / Plastic Technology

Subject : Plastic Recycling and Waste Management

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Lowest dense plastic material
- a) LDPE
 - b) PVC
 - c) ABS
 - d) PC
- Q.2 Burning smell of Nylon 6 is
- a) Hair burning smell
 - b) Sweet smell
 - c) Rotten egg smell
 - d) None of these
- Q.3 Example of thermoplastic material
- a) PVC
 - b) MF
 - c) UF
 - d) PF

- Q.4 Thermoset is
- a) Recyclable material
 - b) Non recyclable material
 - c) Both A & B
 - d) None of these

- Q.5 Example of natural polymer is/are
- a) Jute
 - b) Protein
 - c) Starch
 - d) All of these

- Q.6 Example of tertiary recycling is
- a) Physical changes only
 - b) Chemical changes
 - c) Both A & B
 - d) None of these

SECTION-B

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

- Q.7 Define synthetic polymers with two examples.

- Q.8 Define compatibility.
- Q.9 Define orientation.
- Q.10 Define mechanical degradation.
- Q.11 Define Natural polymers with two examples.
- Q.12 Define plasticizers.

SECTION-C

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

- Q.13 Write short note on solvent separation of plastic waste.
- Q.14 Write need and importance of reprocessing of plastic waste.
- Q.15 Explain sources of Plastic waste.
- Q.16 Define recycling and their types with suitable examples.
- Q.17 What are the sorting methods of plastic waste, explain any one of them.
- Q.18 Explain loading of toxic chemicals from plastics into soil & water.