

- Q25 How waste water is recovered by using membrane separation technique.

Q.26 What are the various factors that are responsible for affecting life expectancy of Plastic?

Q.27 Write short note on Mulching films used in polymer.

Q.28 Explain the use of membrane separation process in waste water recovery.

Q.29 Explain with flow chart to make flower pot from PP woven sack.

Q.30 What are the guidelines in India for Recycling of Plastic Waste.

Q.31 Write the advantage and disadvantage of recycling.

Q.32 Explain Rain water Harvesting.

Q.33 Explain Secondary Recycling.

Q.34 Explain Pollution and Hazards caused by flame retardant used in polymer.

Q.35 Write note on Additives for improving quality of Recycled Plastics.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x10=20)

- Q.36 Write short note on any two
a) Pyrolysis b) Landfilling c) Thermal Degradation

Q.37 Describe Public awareness regarding hazards caused by indiscriminate use of plastic.

Q.38 Explain how the Plastic waste management is done for the proper disposal of Plastic waste.

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**5th Sem., Branch : Plastic
Subject : Plastic Recycling and Waste Management**

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 The recycling number of polymer HDPE is

 - a) 1
 - b) 3
 - c) 5
 - d) 7

Q.2 _____ is the amount of oxygen required to oxidize only organic matter in sewage.

 - a) Turbidity
 - b) BOD
 - c) COD
 - d) DO

Q.3 Which of the following is an example of thermoplastic?

 - a) PE
 - b) Nylon
 - c) PET
 - d) All of these

Q.4 The degradation of polymers is mainly happening due to the _____.

 - a) Cation
 - b) Anion
 - c) Free radical
 - d) None of these

Q.5 _____ is the process used for burning Municipal Solid waste in furnace.

- a) Landfilling
- b) Incineration
- c) BOD
- d) COD

Q.6 COD is abbreviated as _____.

- a) Chemical oxygen demand
- b) Complex oxygen demand
- c) Customary oxygen demand
- d) Chemical oxygen deficiency

Q.7 Which of the following items cannot be recycled?

- a) Food & Organic items
- b) Paper
- c) Battery
- d) Styrofoam

Q.8 What is the function of plasticizer?

- a) Improve rheology
- b) Lower glass transition temperature
- c) Increase electrical stability
- d) Degrade plastic strength

Q.9 The recycling number of polymer PET is

- a) 1
- b) 3
- c) 6
- d) 7

Q.10 Which of the following country is the leading plastic polluter?

- a) United Kingdom
- b) United States of America
- c) China
- d) None of the above

Section-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Full form of COD is _____.

Q.12 What is plastic pollution?

Q.13 Write the name of any two synthetic biopolymers.

Q.14 What is the full form of MSW?

Q.15 Name any two-natural polymer.

Q.16 Three R's means Reduce, reuse, and _____.

Q.17 Define segregation.

Q.18 Membranes are Semipermeable (True/False)

Q.19 Name any additive used for increasing flexibility of plastic.

Q.20 What is Sorting?

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)

Q.21 Define Separation and segregation.

Q.22 Write short note on Incineration.

Q.23 Explain Biodegradation.

Q.24 Explain Primary recycling with suitable examples.