

- 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 questions 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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Roll No.

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.