

- Q.29 Explain Importance of plastic segregation.
 Q.30 Explain need and importance of reprocessing.
 Q.31 Write short note on waste water recovery from membrane separation.
 Q.32 Discuss Solvent separation technique.
 Q.33 Discuss use of plastic wastes in road construction.
 Q.34 Explain stages in plastic recycling.
 Q.35 Explain use of plastics in rain water harvesting.

SECTION-D

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

- Q.36 Explain Basic. Mechanical recycling plant with the help of flow chart and also explain role of each part.
 Q.37 Discuss :
 a) Public awareness regarding hazards caused by indiscriminate use of plastics.
 b) Equipment based sorting technique.
 Q.38 Write short note on :
 a) Co-processing in Cement kiln
 b) Canal linings

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5th Sem / Branch : Plastic

Sub.: Plastic Recycling and Waste Management

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 _____ is the process of recycling raw materials to carry new product.
 a) Reducing b) Re-Processing
 c) Re-Cycling d) Composting
 Q.2 Which of the following materials is non-biodegradable?
 a) Plant waste b) Paper
 c) Plastic d) Food wastes
 Q.3 Which of the following items cannot be recycled?
 a) Paper b) Battery
 c) Containers d) Foam
 Q.4 The process of burning MSW at high temperature is called _____.
 a) Shredding b) Composting
 c) Landfills d) Incineration
 Q.5 Full form of BOD is _____.
 a) Biological Oxygen Demand
 b) Biological Oxygen Discharge
 c) Biological Oxygen Dealing
 d) None of these

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- Q.6 Resin identification code for PP is _____.
a) 1 b) 3
c) 5 d) 6
- Q.7 Which of the following gas is produced from landfill wastes?
a) Bio-gas
b) Natural gas
c) Liquified petroleum Gas
d) All of the above
- Q.8 Polyvinyl chloride plastic is commonly found in :
a) Soft drinks and water bottles
b) Laundry detergent bottle
c) Pipes
d) Shopping bags
- Q.9 Why it is difficult to recycle plastics?
a) It is very hard
b) It comes in different sizes
c) It is adhesive
d) It contains different types of polymer resins
- Q.10 Following ISO standard is for environmental management control of recycling practice.
a) 14001:2012 b) 14001:2013
c) 14001:2014 d) 14001:2015

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name two toxic chemicals produced by plastic wastes.

- Q.12 Name two natural polymers.
- Q.13 The recycling number of PET is _____.
- Q.14 Un-recycled plastics lead to the emission of green house gases. (T/F)
- Q.15 Name two major source of Air pollution.
- Q.16 MSW stands for _____.
- Q.17 _____ is a liquid that extracts suspended impurities from plastic wastes.
- Q.18 Name different stages of recycling.
- Q.19 The decomposition caused by UV light is known as _____.
- Q.20 Name two different methods for collection of plastic wastes.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain the pollution caused by plastics.
- Q.22 Explain incineration of plastic wastes.
- Q.23 Write short note on sorting methods of plastic waste.
- Q.24 Discuss life expectancy of different plastics in environment.
- Q.25 Explain Bio degradation technique.
- Q.26 Define natural polymers and their compatibility with surrounding.
- Q.27 Discuss techniques for proper disposal of plastics.
- Q.28 Write the advantages and disadvantage of Recycling.