

- Q.27 Explain waste water recovery by membrane separation.
- Q.28 Discuss forth floatation technique for plastic waste separation.
- Q.29 Discuss ISI standards regarding limit of these chemicals in effluents.
- Q.30 Explain various stages of plastic recycling.
- Q.31 Write a short note on Landfill of plastic.
- Q.32 Define Pollution. Explain the toxic chemicals produced from plastic.
- Q.33 Write the advantage and disadvantage of Re-processing.
- Q.34 Explain Importance of plastic segregation.
- Q.35 Explain cause of air and water pollution related to the plastic.

Section-D

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

- Q.36 Explain recycling plant with the help of flow chart and also explain role of each part.
- Q.37 Discuss:
- Rain water harvesting
 - Energy recovery from plastic wastes.
- Q.38 Write short note on :
- Value addition by plastic wastes.
 - Agents used for increasing life expectancy of polymers.

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6th Sem / Plastic Engineering Subject : Pollution control in Plastic Industry

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 PET stands for _____.
 a) Polyethylene Tere-phalte
 b) Polyethylene Tere-phthalate
 c) Polyethlene Tetro-phthalte
 d) None of them.
- Q.2 Which of the following materials is non-biodegradable.
 a) Plant waste b) Paper
 c) Plastic d) Yard waste.
- Q.3 _____ is the process of recycling raw materials to carry new product.
 a) Reducing b) Re-processing
 c) Re-cycling d) Composting
- Q.4 Name of waste management technique.
 a) Disposal b) Recycling
 c) Landfills d) All of these

- Q.5 The three main categories of waste include municipal solid waste, hazardous waste, and :
- Industrial waste
 - Radioactive wastes
 - Green waste
 - Waste water
- Q.6 Refuse collected by municipalities from households, small businesses, and institutions.
- Waste stream
 - Leachate
 - MSW
 - None of them
- Q.7 Which of the following gas is produced from landfill wastes?
- Biogas
 - Natural gas
 - Liquified petroleum gas
 - All of the above
- Q.8 _____ is any waste that is a risk to the health of humans or other living things.
- Hazardous
 - Non-hazardous
 - Political
 - None of these
- Q.9 Halogens are used as _____ in plastic.
- Flame Retardant
 - UV light absorber
 - Antimicrobial
 - Antistatic agents
- Q.10 What is the recycling number of PET.
- 1
 - 5
 - 4
 - 6

Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 Density of ABS is _____ g/cc.
- Q.12 _____ is an example of synthetic polymer.
- Q.13 The recycling number of PET is _____.
- Q.14 Pyrolysis is done at _____ °C.
- Q.15 Name two major source of water pollution.
- Q.16 B.O.D. stands for _____.
- Q.17 Name two sources of soil pollution.
- Q.18 Define Natural Polymer.
- Q.19 Name two toxic chemicals used in Plastic processing.
- Q.20 _____ films are used canal linings.

Section-C

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

- Q.21 Discuss “Tertiary Technique” of plastic recycling.
- Q.22 State process of energy recovery from plastic wastes.
- Q.23 Write short note on “Proper disposal of plastics.”
- Q.24 Discuss life expectancy of different plastics in environment.
- Q.25 Explain various techniques for collection of plastic wastes.
- Q.26 Discuss the utilization of woven sacks wastes of plastics into various other form.