

**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR  
DIRECTORATE OF DISTANCE EDUCATION**

**Programme: Diploma in Solid and Hazardous Waste Management**

**Subject: 2<sup>nd</sup> Semester**

**Code: SHWM-201**

**Important Instructions:**

**Total Marks=30**

Attempt all questions from each assignment given below.

- ii. Each assignment carries 15 marks.
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and same is uploaded through login your account.

**ASSIGNMENT- I**

1. What do you understand by hazardous waste? Write sources, causes and characteristics of the hazardous waste.
2. Explain the guidelines of storage & collection guidelines of the hazardous waste.
3. Discuss the various biological treatment of the hazardous waste.

**ASSIGNMENT- II**

1. Write short notes on:
  - a. Chemical precipitation
  - b. Solidification & Stabilization
  - c. Marking & Placarding of Hazardous waste
2. Describe the methods of disposal of Hazardous waste.
3. Explain Hazardous Waste (Management & Transboundary Movement) Rules, 2016.

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**Subject: 2<sup>nd</sup> Semester**

**Code: SHWM-202**

**Important Instructions:**

**Total Marks=30**

Attempt all questions from each assignment given below.

- ii. Each assignment carries 15 marks.
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and same is uploaded through login your account.

**ASSIGNMENT- I**

1. Define Biomedical waste. Write sources, causes and classification of biomedical waste.
2. Describe the waste collection, segregation and labeling of biomedical waste.
3. Explain Wet Treatment Technology and Incineration of biomedical waste treatment.

**ASSIGNMENT- II**

1. Write short notes on:
  - a. Eco thermal Activation
  - b. Health hazards of biomedical waste
  - c. Protocol for biomedical waste treatment
2. Describe the various methods of biomedical waste disposal.
3. Explain Biomedical Waste Management Rules, 2016 and its Amendments.

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ii. Each assignment carries 15 marks.

iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and same is uploaded through login your account.

**ASSIGNMENT- I**

1. Discuss the sources, characterization and generation of E-Waste.
2. Health Hazards of E-waste and growth of electronics industry in India.
3. Write the Various methods of E-waste collection and storage and transportation of E-waste.

**ASSIGNMENT- II**

1. Explain the Separation and purification of E-waste and recovery of materials from E-waste.
2. Write the different methods of E-waste disposal like land filling and incineration.
3. Discuss the E-waste management rules, 2016.

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**Code: SHWM-204**

**Important Instructions:**

**Total Marks=30**

Attempt all questions from each assignment given below.

- ii. Each assignment carries 15 marks.
- iii. All questions are to be attempted in legible handwriting on plane white A-4 size paper and same is uploaded through login your account.

1. Define Plastic waste. Write sources, colour coding and classification of plastic waste.
2. Describe in detail impacts of plastic waste on human health and environment.
3. Explain Plastic Waste Management Rules, 2016 and its Amendments.

**ASSIGNMENT- II**

1. Briefly explain:
  - a) Future trends of plastic in India
  - b) Economic impacts of plastic ban
2. What is plastic waste management? Describe various methods of plastic waste disposal.
3. Explain recycling methods for plastic (PVC, PET, PMMA and HDPE).