

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

**Programme: DIPLOMA IN SOLID & HAZARDOUS WASTE MANAGEMENT**

**Subject: Hazardous waste**

**(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. Discuss the sources and different types of hazardous waste along with their impacts on human health and the environment?
2. Explain the guidelines for storage of hazardous waste. Discuss waste compatibility, containers, surface impoundments, landfilling, and underground injection methods used for hazardous waste storage?
3. Explain biological treatment methods for hazardous waste?

**ASSIGNMENT- II**

1. Write a note on Hazardous waste (Management & Transboundary movement) Rule, 2016?
2. Explain the physical and chemical treatment methods of hazardous waste?
3. Describe the transportation system of hazardous waste? Write on transportation regulations, manifest system, record keeping and reporting procedures, packing, labeling, marking, placarding?

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**DIRECTORATE OF DISTANCE EDUCATION**

**Programme: DIPLOMA IN SOLID AND HAZARDOUS WASTE MANAGEMENT**

**Subject: Biomedical Waste 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 a note on source and classification of biomedical waste.
2. Discuss the categories and disposal method of biomedical waste.
3. Describe the proper mode of collecting and segregating the biomedical waste

**ASSIGNMENT- II**

1. Discuss the standardised operating system and protocol for biomedical waste treatment.
2. Describe the impacts of biomedical waste on human health and environment.
3. Write a descriptive note on biomedical Waste Management Rules.

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**Programme: DIPLOMA SOLID AND HAZARDOUS WASTE MANAGEMENT**

**Subject: E-Waste 2<sup>nd</sup> Semester**

**Code: SHWM-203**

**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 is e-waste? Explain about characteristics and sources of generation of e-waste.
2. Explain about the safety protocols for handling of e-waste.
3. Explain about e-waste management rules 2016.

**ASSIGNMENT- II**

1. Discuss about collection methods of e-waste.
2. Explain about onsite and off-site storage of e-waste.
3. Explain about transportation methods of e-waste.

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**DIRECTORATE OF DISTANCE EDUCATION**

**Programme: DIPLOMA IN SOLID AND HAZARDOUS WASTE MANAGEMENT**

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

**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.

#### **ASSIGNMENT- I**

1. Define plastic waste. Write a note on thermoplastic and thermosetting plastic
2. Write a note on plastic waste management.
3. Write economic impacts of plastic ban.

#### **ASSIGNMENT- II**

1. What do you understand by plastic waste? Describe the impacts of plastic on marine life, human health and environment.
2. Write a note on possible alternative materials of plastic.
3. Write a descriptive note on Plastic Waste Management Rules, 2016.