

Unit IV

7. (a) Name the various methods of heavy metals remediation. Discuss one case study on the bioremediation of heavy metals. **10**
(b) What are the waste elimination options ? **5**
8. Write down the techniques available for remediation of radioactive waste. Discuss any one in detail with neat and clean diagram. **15**

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Roll No.

CC-602

M. Tech. EXAMINATION, May 2017

(Third Semester)

(Re-appear Only)

ESEM

ESEM-302-B

HAZARDOUS WASTE MANAGEMENT

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Define Hazardous waste. Discuss the sources of HW. Write down the nine classes of HW according to US DOT classification giving the examples and symbols of each class. **15**
2. (a) Name any *five* types of industries responsible for hazardous waste generation. Discuss textile industry with regards to hazardous waste production. **10**
(b) Define exposure potential. What are the various route of exposure to hazardous waste ? **5**

Unit II

3. (a) Write down the precautions needs to be taken at the time of labelling and collection of Hazardous waste. **6**

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- (b) Define biomedical waste. Is all biomedical waste generated in hospitals hazardous ? How shall we manage the biomedical waste ? **9**

4. (a) What do you understand by E-Waste ? “Management of E-Waste requires special attention”. Comment on the statement. **10**
(b) Write a short note on agricultural waste. **5**

Unit III

5. What are the various problems encountered during the management of hazardous waste ? Discuss the initiatives taken by the Indian Government to manage Hazardous waste. **15**
6. Explain the following : **7½×2=15**
 - (a) Reverse osmosis
 - (b) Activated Sludge process.

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P.T.O.