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Paper Id: 297214 **Roll No.** | | | | | | | | | | |

M.TECH
(SEM II) THEORY EXAMINATION 2018-19
HAZARDOUS WASTE MANAGEMENT

Time: 3 Hours ***Total Marks: 70***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a. Classify hazardous waste.
b. Write types of solid waste collection system.
c. Define composting.
d. List out the precautions to taken during handling of hazardous waste management.
e. Define vermin composting.
f. What are the nuclear fission?
g. Name the biological treatment methods for hazardous waste management.

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a. Describe the term radioactivity. Why it is considered hazardous? Explain
b. Explain the classification and source of hazardous waste.
c. Define pyrolysis and explain the process in brief.
d. Classify biomedical treatment with respect to option , category, treatment and disposal.
e. State the method of storage of hazardous waste.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain the various factors considered in the selection of site for hazardous waste management.
(b) What are the different factors that must be considered in the design of transfer station.

4. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain EPA identification of toxic and hazardous wastes.
(b) Discuss in brief what are the characteristics of hazardous waste.

5. Attempt any *one* part of the following: 7 x 1 = 7

(a) Describe the current status of recycling of hazardous waste in India.
(b) What are the various health effects of radio activity as per RCRA?

6. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain legal aspects of hazardous waste management in brief.
(b) Draw and explain organization pattern of hazardous waste management.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a) What are the factors to be considered for the design of aerobic process.?
(b) whatt do you understand by stabilization and solidification? Explain in brief.

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