

**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.