

--	--	--	--	--	--	--	--	--	--

**M. TECH.**  
**(SEM III) ODD SEMESTER EXAMINATION, 2015-16**  
**HAZARDOUS WASTE MANAGEMENT**

[Time:-3 Hours]

[Max Marks: 100]

*Note: Attempt All Questions. All Questions carry equal marks:-*

- Q. 1. Attempt any two of the following:** [10x2]  
 (a) Define hazardous waste. How are hazardous wastes categorized? Explain.  
 (b) Discuss in detail about the toxicity of hazardous wastes.  
 (c) How are hazardous wastes collected and transported? What are the responsibilities of the hazardous waste transporter?
- Q. 2. Attempt any two of the following:** [10x2]  
 (a) Discuss in detail about The Hazardous Waste (Management and Handling) Rules, 1989.  
 (b) Explain National Hazardous Waste Management Strategy.  
 (c) Discuss the common attributes of (i) The Hazardous Waste (Management and Handling) Rules, 1989; (ii) RCRA and (iii) CERCLA.
- Q. 3. Attempt any two of the following:** [10x2]  
 (a) Discuss pollution prevention of hazardous wastes. Explain various ways of hazardous waste minimization in industries.  
 (b) What is Environmental Audit Scheme and what are its objectives. Considering the format of Environment Audit Report explain how it is prepared.  
 (c) Explain different types of physico-chemical treatment methods of hazardous wastes.
- Q. 4. Attempt any two of the following:** [10x2]  
 (a) What is the main objective of Quantitative Risk Assessment? Explain how it is achieved.  
 (b) Discuss Emergency Preparedness Plan (EPP) by focusing on On-Site EPP. Explain the structure of emergency management along with functions of each.  
 (c) Write a brief note on contaminant release. Write a brief note on atmospheric transport of contaminants.
- Q. 5. Write short notes on any four of the following:** [5x4]  
 (a) Basel Convention.  
 (b) Land disposal of hazardous wastes.  
 (c) Thermal treatment methods.  
 (d) Solidification and Stabilization.  
 (e) Stockholm Convention.  
 (f) Dioxins and PCB's.