

Printed Pages : 2



ECH-034

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 151754

Roll No.

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

B. Tech.(SEM. VII) (ODD SEM.) THEORY
EXAMINATION, 2014-15**HAZARDOUS WASTE MANAGEMENT**

Time : 3 Hours]

[Total Marks : 100

- 1 Attempt any four parts : **5×4=20**
- What is hazardous waste and discuss the sources of hazardous waste
 - Explain how the disposal of hazardous waste is a problem.
 - Briefly discuss the charecterisation of hazardous industrial wastes
 - Write short notes on the transportation of hazardous waste.
 - Discuss the role of pollution control boards on hazardous waste management.
 - Describe the hazardous waste treatment process in electro winning operations.
- 2 Attempt any two parts : **10×2=20**
- Mention the major industrial sources for non-hazardous waste and explain the waste treatment process of any one industry.

151754]

1

[Contd...

- b) Discuss the storage and management of non-hazardous waste.
- c) Explain thermal gasification with a neat diagram.
- 3** Attempt any two parts : **10×2=20**
- a) Discuss the land disposal methods of hazardous waste and its disadvantages.
- b) Describe stabilization and solidification of hazardous waste.
- c) With a neat flow diagram explain the treatment process for hazardous waste in a petrochemical industry.
- 4** Attempt any two parts : **10×2=20**
- a) i) Explain about risk assessment.
ii) Write a detailed note on hazardous waste minimisation.
- b) Enlist various treatments of infectious waste and explain any one in detail.
- c) Write a short note on
i) Transportation of hazardous waste
ii) Value- extraction from the waste.
- 5** Attempt any two parts : **10×2=20**
- a) Give a case study on hazardous waste management of radioactive waste.
- b) Is India taking necessary actions to prevent hazardous waste at the source? Discuss.
- c) Explain hazardous waste incineration and its limitations.
-