

MASTER OF SCIENCE (ENVIRONMENT SCIENCE & TECHNOLOGY)
(CBCS-2019 COURSE) M.Sc.(Environment Science & Technology) Sem-II :
WINTER : 2021
SUBJECT: SOLID & HAZARDOUS WASTE MANAGEMENT

Day : Tuesday
Date : 28-12-2021

W-21210-2021

Time : 10:00 AM-01:00 PM
Max.Marks 60

N.B.:

- 1) **Q.6. is COMPULSORY.** Out of the remaining questions attempt **ANY FOUR** questions from **Q.1 to Q.5.**
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVERE** necessary.

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- Q.1** a) Explain the importance of physical characteristics of municipal solid waste in the waste management system. [06]
- b) Explain the concept of viability of transfer station. [06]
- Q.2** a) What is a material recovery facility? Design a plan for a clean material recovery facility. [06]
- b) Compare composting and anaerobic digestion with reference to its management. [06]
- Q.3** a) Explain the working of a rotary kiln with the help of neat diagram. [06]
- b) What are the techniques for active control of landfill gas at landfill site? [06]
- Q.4** a) Describe the life cycle analysis of municipal solid waste. [06]
- b) What are the management concerns that need to be considered during collection and storage of biomedical waste? [06]
- Q.5** a) Explain solidification and stabilization method for hazardous waste management in detail. [06]
- b) Discuss atleast four strategies for management of e-waste. [06]
- Q.6** Write short notes on **ANY THREE** of the following: [12]
- a) Significance of Recycling
 - b) Benefits of Integrated Solid Waste Management
 - c) Landfill liners
 - d) Salient features of municipal solid waste management rules

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