

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. IV Year I Semester Regular & Supplementary Examinations December-2024
WASTE RESOURCE MANAGEMENT
(Open Elective (OE) – IV)

Time: 3 Hours**Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a What is the most harmful type of waste, and explain how they impact the environment? CO1 L1 6M
b Write short notes on E-Waste management. CO1 L2 6M

OR

- 2 a Define Waste Management. Make a list of fundamental concepts of waste management. CO1 L1 6M
b Explain the types of waste management. CO6 L2 6M

UNIT-II

- 3 a List out the factors affecting the generation of solid waste. CO2 L3 12M

OR

- 4 a What is the need for Solid waste management? CO2 L2 6M
b What is municipal solid waste's physical? and chemical characteristics. CO2 L1 6M

UNIT-III

- 5 Discuss the classification of Biomedical Waste and their uses. CO3 L3 12M

OR

- 6 a Explain the terms autopsy centers and paramedics. CO3 L1 6M
b What are the objections of codes of ethics? CO3 L1 6M

UNIT-IV

- 7 a Illustrate the classification of hazardous waste and its. CO4 L3 6M
b How can the products be designed by the engineers to reduce the risk to the user? CO4 L3 6M

OR

- 8 Explain the public health and their environmental effects of hazardous waste. CO4 L2 12M

UNIT-V

- 9 List out the waste collection components and explain briefly. CO5 L3 12M

OR

- 10 a Define Waste sanitary. Explain the summary of waste sanitary landfill works. CO5 L2 6M
b List out the environmental effects of landfill. CO5 L2 6M

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