

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

B.Tech IV Year I Semester Regular Examinations February-2024

WASTE RESOURCE MANAGEMENT

(Open Elective – IV)

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

1 a Define Waste Management. Make a list of fundamental concepts of waste management. CO1 L1 6M

b Why is waste considered one of the major environmental issues? CO1 L2 6M

OR

2 a What are the merits and demerits of waste resource management? CO1 L1 6M

b What are the technologies that are used for waste minimization? CO1 L1 6M

UNIT-II

3 Briefly explain the types of solid waste management. CO2 L3 12M

OR

4 a Discuss the excretory products of humans and livestock Wastes. CO2 L1 6M

b Distinguish between merits and demerits of solid waste management. CO2 L1 6M

UNIT-III

5 a Brief about effects of biomedical waste. CO3 L2 6M

b What are sources of biomedical waste? CO3 L1 6M

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 Write a short note on Radioactive waste and Chemical waste. CO4 L1 6M

b Define toxic waste and what are the hazard related risks. CO4 L1 6M

OR

8 List out the important characteristics of industrial hazardous waste management. CO4 L1 12M

UNIT-V

9 a Who are the consultants? Write short notes on consulting engineers and the areas they work? CO5 L1 6M

b Explain the types of collection systems. CO5 L2 6M

OR

10 a What are disposal options are there in disposal of waste and explain briefly. CO5 L1 6M

b Why it is important waste selection criteria? Classify the selection criteria. CO5 L2 6M

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