

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2023

B.Tech-VIIth Semester (CSE/IT/ECE/CIVIL)

COURSE CODE (CREDITS): 19B1WBT731 (03)

MAX. MARKS: 25

COURSE NAME: Sustainable Technologies for Waste Management

COURSE INSTRUCTOR: Dr. Garlapati Vijay Kumar

MAX. TIME: 1 Hour 30 Minutes

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

- Q1 What are the different treatment techniques used for Municipal Solid waste? Discuss in detail about the composting process by emphasizing the different factors affecting the composting process? (CO I & II) (5 M)
- Q2. What are the engineering concerns need to take care while planning for sanitary landfill? Discuss about the principle, advantages & disadvantages of sanitary landfill? (CO III) (5 M)
- Q3.What are the different hazardous chemicals present in the home? Explain in detail about the "Phytoremediation" approach of hazardous waste management in terms existing practices and advantages & disadvantages? (CO III) (5 M)
- Q4.Discuss in detail about the different possible lab and chemical hazards and explain briefly about the storage approaches of lab, chemical, radioactive and Biowastes (CO IV) (4 M)
- Q5. Write about the following one's (CO III & IV)
- A. Vermicomposting (3 M)
- B. Conventional landfill methods for dry area (3 M)

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