

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2024

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

COURSE CODE (CREDITS): 19B1WBT731 (3-0-0)

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) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

Q.No	Question	CO	Marks
Q1	Describe the engineering concerns associated with "Sanitary Landfill"? Summarize the advantages and disadvantages associated with the Sanitary Landfills?	CO-I & CO-II	5
Q2	Tabulate the advantages and disadvantages associated with "Phytoremediation" in dealing with the hazardous substances? Demonstrate the phytoremediation abilities of plants by illustrating any two names of plants associated mechanisms with the respective taking care of respective hazardous compounds?	CO-III	5
Q3	Outline the Typical Reaction Conditions and Products from Pyrolysis, Gasification, Incineration, and Plasma-Based Processes in a tabular form?	CO-III	5
Q4	Justify the need of "Green composites" in present scenario? Write the compositional attributes of "Green composites" by explaining the advantages, disadvantages and applications associated with them?	CO-IV	5
Q5	Summarize the following one's (a) Preventive and control measures for Mercury pollution (2.5 M) (b) Radioactive waste management (2.5 M)	CO-II & CO-III	5

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