

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -2 EXAMINATIONS-2022

B.Tech-VII Semester (CS/IT/ECE/Civil/BT)

COURSE CODE (CREDITS): 19B1WBT731(3)

MAX. MARKS: 25

COURSE NAME: Sustainable Technologies for Waste Management

COURSE INSTRUCTOR: Dr. Garlapati Vijay Kumar **MAX. TIME:** 1 Hour and 30 Minutes

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

- Q1. What is the urgent need for going towards “Green composites”? Mention the advantages and disadvantages associated with the “Green Composites”? What are the existing challenges associated with the “Green Composite” technology and explain its applications in different industrial sectors? (CO III) (5 M)
- Q2. What are the different hazardous wastes found in our home? Discuss the “Phytoremediation” approaches utilized as a part of “Hazardous Waste Management”? (CO II) (5 M)
- Q3. What are the different items coming under “Municipal Solid Waste”? Discuss in detail about the “Composting” of MSW by explaining the different characteristics have to take care during the composting process? (CO I & CO II & CO III) (5 M)
- Q4. What is a “Sanitary Landfill”? What are the different engineering aspects need to consider while designing a Landfill? Write about the different conventional methods of landfill designs used in dry areas? (CO II) (5 M)
- Q5. What is “Life Cycle Analysis (LCA)”? What is the purpose of going for “LCA”? Explain the different phases associated with the “LCA”? (CO III) (5 M)

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