

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**TEST -1 EXAMINATION- 2025**

**B.Tech-VII Semester (CSE/IT/ECE/CE)**

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

**MAX. MARKS:** 15

**COURSE NAME:** Sustainable Technologies for Waste Management

**COURSE INSTRUCTOR:** Dr. Garlapati Vijay Kumar

**MAX. TIME:** 1 Hour

**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	Summarize the New rules framed on 5 <sup>th</sup> April 2016 on solid waste management (SWM) framed in India?	I	3 M
Q2	What are the different components under waste hierarchy? Describe the activities involved under each component rule?	I	3 M
Q3.	List out the main hurdles for designing a treatment for municipal solid wastes (MSW)? Mention the different treatment techniques used for MSW?	I&II	3 M
Q4.	Write in detail about the different factors affecting the aerobic composting? Summarize the finished product characteristics of ripe compost?	II	3 M
Q5	Explain the principle and objectives of engineered landfills as a part of MSW management? Tabulate the advantages and disadvantages associated with the "Engineered Landfills"?	II	3 M

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