

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Make-up Examination-Nov-2025

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

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: Note: (a) All questions are compulsory.

Q.No	Question	CO	Marks
Q1	Write the different advantages associated with the Refuse-derived fuel (RDF)? Discuss in detail about "Super Critical Technology" utilization under WtE and WtP concepts?	III	5
Q2	Elaborate the concept of "E-waste recycling" by including the by including the benefits? What are the responsibilities of "Bulk Consumer" and "Producer" under E-waste Management?	III	5
Q3	How the "Plasma Torch/arc" technology helps in conversion of hazardous to less hazardous substances by including the advantages and disadvantages? Summarize the "Preventive" and "Control" measures associated with the "Lead Poisoning"?	I&II	5
Q4	List pretreatment technologies utilized for lignocellulosic biomass? Discuss the step by step approach in hydrolysis of cellulose to glucose by cellulolytic enzymes?	IV	5
Q5	Differentiate the chemical transesterification with lipase-catalyzed transesterification? Write about the features of ultrasound- and microwave-assisted transesterification?	III&IV	5