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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1EXAMINATION- 2026

M.Tech-I Semester (CE)

COURSE CODE (CREDITS):14M31CE115(03) MAX. MARKS: 15

COURSE NAME: SOLID WASTE MANAGEMENT

COURSE INSTRUCTOR:NIRAJ SINGH PARIHAR 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

(c) Use of calculator is allowed

Q.No	Question	CO	Marks
Q1	Define 'Solid waste' and its components. Discuss the ill effects of improper handling and management of the solid waste on the environment.	CO1,2	4
Q2	Draw a comparison between the 2016 and 2026 SWM rules of India highlighting their focal points and the key changes in the new policy scheme.	CO1,2	4
Q3	'Apex Electroplating Pvt. Ltd.' operates an industrial unit in an environmental red-category sector located near a major metropolitan city (population ~2.5 million). During a routine inspection, environmental authorities discovered that the unit was discharging untreated hazardous effluent directly into a nearby storm drain without operating its Effluent Treatment Plant (ETP), violating the conditions of its Consent to Operate under the Water (Prevention and Control of Pollution) Act. The regulatory body issued a formal direction to rectify the non-compliance. A follow-up inspection confirmed that the non-compliance persisted for 45 days before the facility fully restored compliant ETP operation. As an SPCB officer, estimate the amount of compensation to be imposed over the firm using CPCB Environmental Compensation formula.	CO3	4
Q4	Discuss the role of NGOs in solid waste management. Briefly explain some of their revenue generation models.	CO2	3

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