JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- 2025

PhD II Semester (CE)

COURSE CODE (CREDITS): 24P1WCE231 (3)

MAX. MARKS: 15

COURSE NAME: Life Cycle Analysis and Design for Environment

COURSE INSTRUCTORS: Dr. Rishi Rana Kalia

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	Given the five stages of LCA (Planning, Screening, Data Collection,	CO-1	7
}	Evaluation, and Improvement Assessment), construct a mathematical		Marks
	model to determine the relative weight of each stage in influencing the		
	final environmental impact assessment of a product.		
Q2	Compare and contrast the role of LCA in corporate sustainability	CO-2	5
	strategies with its role in regulatory compliance (such as ISO 14000		Marks
	and EMAS). Which is more impactful in driving environmental		
	improvements, and why?		
Q3	State basic concept of LCA?	CO-1	1.5
			Marks
Q4	Neatly draw and elucidate various product life cycle stages?	CO-1	1.5
			Marks