

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2025

B.Tech-VIII Semester

COURSE CODE (CREDITS):18B1WCE834 (3)

MAX. MARKS: 35

COURSE NAME: Sustainable Development

COURSE INSTRUCTORS: Akash Bhardwaj

MAX. TIME: 2 Hours

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	What are the four major energy saving approaches in the buildings. Explain them.	5	6
Q2	What is LEED rating system? Write about its Indian context. What are the various challenges and opportunities in energy efficiency in buildings?	5	4
Q3 (a)	Define EIA and explain its role in sustainable development.	3	3
Q3 (b)	List the various stages of the EIA process and briefly describe each.	3	4
Q4 (a)	Draw the figure showing life cycle assessment process.	3	3
Q4 (b)	What are the different types of LCA? Explain any one of them.	3	3
Q5	What is EMS? Differentiate between ISO 9000 and ISO 14000.	4	4
Q6 (a)	Define solid waste explain its different types. Draw figure of waste management hierarchy.	2	4
Q6 (b)	What is solid waste management? Explain all stages of SWM.	2	4