JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

M.Tech-II Semester

COURSE CODE (CREDITS): 10M11CE215 (3) MAX. MARKS: 15

COURSE NAME: SUSTAINABLE DESIGN AND CONSTRUCTION

COURSE INSTRUCTOR: Akash Bhardwaj 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 calculators is not allowed

Q.No	Question	Marks
Q1	Differentiate between sustainable construction and traditional construction practices used in infrastructure construction and planning in context with three pillars of sustainability.	3
Q2	Analyze the relationship between population growth, urbanization and global environmental issues by giving examples related to sustainable design and construction.	3
Q3	Propose a comprehensive sustainable construction framework integrating 3R, SDGs and Paris Agreement principles.	3
Q4	Discuss how daylighting strategies reduce electrical load during daytime. What factors can control the daylighting in a building while planning and after construction?	3
Q5	What are the different LEED certification levels? Briefly explain LEED credit categories.	3

JUIT TEST-1 EXAMINATION FEB-2026