JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

PhD-1st Semester (CE)

COURSE CODE (CREDITS): 24P1WCE232 (3) MAX. MARKS: 15

COURSE NAME: Characterization of Materials

COURSE INSTRUCTOR: Dr. Amardeep 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 not allowed

Q.No	Question	Marks
Q1	List out various application of Calorimetry along with its types.	3
Q2	Make a comparison among different calorimetric methods.	3
Q3	What do you mean by heat of hydration? Discuss in detail along with the significance of different compounds formed during the same process.	3
Q4	Discuss the CSH gel structure and its properties based on Feldman Sereda model.	3
Q5	What do you mean by interfacial transition zone? Discuss different durability issues occurred in concrete.	3

JUIT TEST-1 EXAMINATION- AUG-2026

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