

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS- 2026

B.Tech-IV Semester (CE)

COURSE CODE (CREDITS): 25B11CE413 (3)

MAX MARKS: 25

COURSE NAME: CIVIL ENGINEERING MATERIALS

COURSE INSTRUCTOR: Akash Bhardwaj

MAX. TIME: 1 Hour 30 Min

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	CO	Marks
Q1	Compare air seasoning and kiln seasoning of timber based on: <ul style="list-style-type: none"> <li>• Time</li> <li>• Cost</li> <li>• Quality</li> <li>• Suitability</li> </ul>	3	3
Q2	(a) Why is PVC widely used for plumbing instead of metal pipes? Explain with reasoning. (b) A transparent roofing material is needed for a greenhouse. Would you use glass or plastic? Explain your choice.	3	1.5 1.5
Q3	(a) Define the following terms: <ol style="list-style-type: none"> <li>Perpend</li> <li>Frog</li> </ol> (b) What is English bond? Describe its arrangement with a figure. (c) Why is ashlar masonry stronger than rubble masonry? Explain.	4	2 2 2
Q4	(a) A wall plaster shows cracks after drying. What could be the reasons? Suggest solutions. Explain the following types of plaster: <ol style="list-style-type: none"> <li>Cement plaster</li> <li>Lime plaster</li> <li>Gypsum plaster</li> </ol>	1	2 3
Q5	(a) You are designing a residential room. Where would you place doors and windows for maximum ventilation and lighting? Explain with suitable reasons. (b) Draw and label a door frame.	1	2 2
Q6	(a) Define and draw winders. Explain their importance in staircase. (b) Analyze the importance of proper proportion between tread and riser.	3	2 2