

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2024

B.Tech-III Semester (CE)

COURSE CODE (CREDITS): 23B11CE316 (3)

MAX. MARKS: 35

COURSE NAME: Building Materials and Construction

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	(a) Draw a flowchart showing the various operations involved in Cement making. Write about the characteristics and uses of grade 43 cement. (b) Write about the qualities and properties of good mortar. Define Surkhi mortar.	CO 1,3	6
Q2	(a) Write the various types of varnishing and its process. (b) Explain various types/classes of fire. Draw neat and clean figure of CO2 fire extinguisher.	CO 4	7
Q3	(a) Define headroom in stairs. Draw and explain how winders are used in to change the direction of stairs. (b) Draw plan of Doglegged and open newel stairs.	CO 3	6
Q4	(a) What is artificial seasoning of timber? What are its types? Explain any one of them. (b) What are non-subterranean termites? What are Cavity walls? Explain how they are important in damp proofing of a building.	CO 1,4	6
Q5	(a) What are transoms in scaffolding? Write about trestle scaffolding. (b) Draw neat and clean figures showing English bond and Flemish bond in brick masonry.	CO 2,4	6
Q6	(a) What is half bat in bricks? Where it is used? (b) Write about open excavations during site investigation. How they are important for construction?	CO 2	4