

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2025

B.Tech-VI Semester (CE)

COURSE CODE (CREDITS):18B11CE611

MAX. MARKS: 25

COURSE NAME: Concrete Technology

COURSE INSTRUCTORS: 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

Q.No	Question	CO	Marks
Q1	Explain aggregate impact value test procedure and calculations in context with concrete.	CO 1	3
Q2	Explain how use of sea water affects mixing and properties of concrete.	CO 3	3
Q3	Differentiate between hand mixing and mechanical mixing of concrete with suitable examples.	CO 2	3
Q4	Explain the working principle of a transit mixer, including the role of the drum rotation speed. How it is important in transportation of concrete. Write about high pressure steam curing.	CO 3	4
Q5	Enlist various functions of admixtures used in concrete. What are their types? Explain any one of them.	CO 3	4
Q6	Write about accelerating admixtures and their impact on fresh concrete. Explain about silica fume and its use in concrete technology.	CO 4	4
Q7	What are the factors which affects workability of concrete. Explain any two factors.	CO 4	4