

Tammy Gupta

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-VI Semester (Civil)

COURSE CODE: 18B11CE611

MAX. MARKS: 15

COURSE NAME: CONCRETE TECHNOLOGY

COURSE CREDITS: 3

MAX. TIME: 1 Hour

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*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

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Q1. What do you understand by Workability of Concrete and what are the various factors affecting Workability of Concrete explain in detail? [3]

Q.2 Explain the phenomenon of Segregation and Bleeding in Concrete? [2]

Q.3 List with chemical formula for Bogue's compounds. [1]

Q.4 With a neat flow chart describe the process the dry process of manufacturing of Cement. [3]

Q.5 Write a short note on following: [4]

- a) Bound Water
- b) Calcium Silicate Hydrates
- c) Portland Slag Cement
- d) Advantage of Portland Pozzolana Cement

Q.6 Discuss any four methods of concrete compaction by vibration. [2]