

Mr. Tananag

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATIONS-2022

B.Tech-VI Semester (Civil)

COURSE CODE: 18B11CE611

MAX. MARKS: 25

COURSE NAME: CONCRETE TECHNOLOGY

COURSE CREDITS: 3

MAX. TIME: 1 Hour 30 Min

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

Q1. Describe in detail about the importance of the quality of water used for concreting? [3]

Q2 Write a short note on following: [2\*6=12]

- Retarders
- Accelerators
- Alkali aggregate reaction
- Pozzolanic action
- Effect of superplasticizers in fresh concrete
- Gap graded aggregate

Q3 Explain in detail the classification of aggregates based on sources they are obtained from. [3]

Q4 With the help of neat diagram explain bulking of aggregates and any 2 methods of moisture content measurement? [4]

Q5 Determine the fineness modulus of aggregate for the following results of sieve analysis. What does the result indicate? [3]

IS Sieve Size	10 mm	4.75 mm	2.36 mm	1.18 mm	600 micron	300 micron	150 micron	75 micron
Percentage Passing	100	92	75	55	23	12	9	7