

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-2 EXAMINATION- APRIL -2019

B.Tech IV Semester

COURSE CODE: 11B11CE411

MAX. MARKS: 25

COURSE NAME: CONCRETE TECHNOLOGY

COURSE CREDITS: 04

MAX. TIME: 1.5 HRS

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*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

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1. List any four characteristics of concrete aggregates and discuss their influence on both the properties of fresh and hardened concrete. (3)
2. Explain the different tests of workability in detail. (5)
3. As an accelerator why sodium chloride is not as effective as calcium chloride. (2)
4. Explain the mechanism by which mineral admixtures are able to improve the pumpability workability of concrete mixtures. In the amounts normally used some are water reducing and whereas others are not. Discuss with the help of examples. (5)
5. Explain all the tests of cement in detail. (5)
6. Discuss the fresh and hardened tests for concrete in detail. Explain the different classification of water reducers with their mechanism and their specific characteristics. (5)