

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**MAKE UP EXAMINATION- APRIL -2018**

**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. All questions carry equal marks.*

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1. Discuss the physical and chemical characteristics of the C-S-H, calcium hydroxide and calcium sulphoaluminates present in a well hydrated cement paste.
2. Why does air entrainment in concrete reduces the strength of moderate and high strength mixes but increases in low strength mixes.
3. Discuss the applicability of the various workability tests to concretes of different levels of workability.
4. Discuss the mechanism of accelerators and retarders in detail.
5. What would you do if a mixer truck got stuck but mixer continues to operate? Discuss the mechanism of shrinkage compensating admixture in detail.