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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

MID TERM TEST

SUMMER SEMESTER - JUNE 2018

B.Tech 4<sup>th</sup> Semester

COURSE CODE: 11B11CE411

MAX. MARKS: 50

COURSE NAME: CONCRETE TECHNOLOGY

COURSE CREDITS: 04

MAX. TIME: 2 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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- Q1. What are the constituents of concrete? State their relative proportions (7)
- Q2. Discuss with graphs heat of hydration of cement (7)
- Q3. How PPC is different from OPC. Enumerate its advantages and disadvantages (7)
- Q4. What do you mean by angularity index? Why angular aggregates are superior to rounded aggregates? (8)
- Q5. Why AAR is important in context of concrete technology. What are the factors which promote AAR? (7)
- Q6. What are different types of cements available? Explain each one of them. (8)
- Q7. Write short notes on **any two** of the following (6)
- a) Compressive strength of concrete
  - b) Workability of fresh concrete
  - c) Durability of concrete