

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION-October 2017

M. Tech. III/Ph. D. I-Semester

COURSE CODE: 11M1WCE332

MAX. MARKS: 25

COURSE NAME: Advanced in Construction Material

COURSE CREDITS: 03

MAX. TIME: 1.30 Hrs

---

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

---

1. What is Gel/Space Ratio? Calculate the gel/space ratio and the theoretical strength of a sample of concrete made with 500 gm. of cement with 0.5 water/cement ratio, on full hydration and at 60 per cent hydration. [5]
2. Describe accelerated curing test and maturity concept of concrete. [5]
3. What are the ingredients of self compacting concrete? Self-compacting concrete has been described as the most revolutionary development in concrete construction; justify the statement. [5]
4. Write the requirements for self-compacting concrete. [5]
5. Write the general guideline for mix composition of self-compacting concrete [5]