

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- September 2016

B.Tech VII Semester

COURSE CODE: 10B13CE744

MAX. MARKS: 15

COURSE NAME: Advanced Concrete Technology

COURSE CREDITS: 03

MAX. TIME: 1Hr

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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. Explain how the concept works for eliminating drying shrinkage cracking by the use of shrinkage compensating concrete. (3)
2. What is the principal advantage of using fibre reinforced concrete? Explain how the concrete acquires this property. (3)
3. Explain the relationship between high volume fibre concrete and low volume fibre concrete with suitable expression and graphical plot. (3)
4. Write a short note on selection of materials and proportioning of mixtures suitable for use in fibre reinforced concrete, with special attention to how the requirements of toughness and workability are harmonized. (3)
5. Discuss the advantage of fibre reinforced concrete over normal concrete by suitable stress strain curves. (3)