

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- August 2017

M.Tech. (SE) and M.Tech. (CM), 3rd Semester

COURSE CODE: 12M1WCE332

MAX. MARKS:15

COURSE NAME: **Repair and Retrofitting of Structures**

COURSE CREDITS: 03

MAX. TIME: One Hr

Note: All questions are compulsory. Every question carries 3 marks.

Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q.1. What is capillary porosity? How does it change with change in degree of hydration?
- Q.2. Under what conditions, does the corrosion of reinforcing bars take place in hardened concrete? Using a diagram, discuss the factors responsible for initiation of corrosion of reinforcing bars.
- Q.3. Tabulate any three types of damage classification. Also give general observations and repair requirements.
- Q.4. Discuss the procedure of carrying out pull-out test. How does the pull-out force relate to concrete strength?
- Q.5. Discuss the factors which significantly affect the results of rebound hammer test.

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CE-19, MT