

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- August 2017

M.Tech . 1st Semester (CM)

COURSE CODE: 10M11CE111

MAX. MARKS:15

COURSE NAME: **Construction Techniques**

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. Discuss the operations involved in the construction of formwork. How can a project team achieve economy in the formwork construction?
- Q.2. Elaborate the fire resistant properties of timber as a construction material?
- Q.3. Using diagrams with proper labeling, describe various fire-proofing treatments given to steel and concrete columns.
- Q.4. Write down the various types of loads that come on to a formwork system. How can one estimate the pressure from fresh concrete on the vertical wall of formwork?
- Q.5. Using simple sketches, give different structural systems which are commonly used for high-rise buildings.

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CE-12, MT