

Dr. Saurav

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- APRIL- 2019

M.Tech IV Semester

COURSE CODE: 10M13CE432

MAX. MARKS: 25

COURSE NAME: **Construction Methods Improvement**

COURSE CREDITS: 3

MAX. TIME: 1.5 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 do you understand by Job Layout or site layout? Enumerate the factors on which it depends. What are precautions to be taken while marking layout on ground? [5, CO2]
- Q2. What are cofferdams? What are its types? Discuss in details with figures. [6, CO2]
- Q3. What is a deep foundation? How piles are classified? Tabulate the advantages and disadvantages of Timber pile. [6, CO2]
- Q4. Using static method deduce an equation to find the ultimate load bearing capacity of a pile for clayey soils. Which method is used by IS code for determining the ultimate load bearing capacity of pile? Discuss. [4, CO2]
- Q5. Discuss group action of piles. [4, CO2]