

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech. Winter 2018 – 19 Examination

Semester: 1
Subject Code: 203216102
Subject Name: Construction Techniques

Date: 11/12/2018
Time: 10:30am to 1:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) Which Design consideration should be noted for High Rise Buildings? **(05)**
B) Write a short note on “Industrialization Of Construction Processes”. **(05)**
C) Explain Scaffolding along with Advantage and Disadvantage. Enlist types of scaffolding. **(05)**

- Q.2** Answer the following questions. (Attempt any three) (Each five mark) **(15)**
A) Write short note on Erection Work.
B) Write the limitation, benefits and uses of slip form system.
C) Write the safety precautions to be followed in erection work.
D) Enlist and explain various formwork failures.

- Q.3** A) Sketch typical slip form system. State functions of each component of slip formwork system? **(07)**
B) State Aims & Objectives of Modular Co-Ordination & also discuss practical benefits of Modular Co-Ordination. **(08)**

OR

- B) Write the classification of Tall Building Structural Systems **(08)**

- Q.4** A) Enlist the Cracks Repair Techniques. Explain any Three Techniques. **(07)**

OR

- A) Explain Erection Cycle And Methods. Write about Slinging Operation. **(07)**
B) Write a detail note on special type of form work? **(08)**