

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech. Winter 2019 - 20 Examination

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

Date: 17/12/2019
Time: 10:30am to 01:00pm
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) Write brief note on industrialization of construction processes. (05)
B) State aims & objectives of modular co-ordination. (05)
C) Write a detailed note on jump formwork system. (05)

- Q.2** Answer the following questions. (Attempt any three) (Each five mark) (15)
A) Write a brief note on assessment of fire damaged structure.
B) Briefly explain formwork and enumerate its types.
C) Summarize and briefly explain materials used for formwork.
D) Explain in brief how do earthquake cause damage to structure and enumerate methods of its assessment.

- Q.3** A) Write short note on fire detection and the protection system in tall structures. (07)
B) Discuss essential requirements and properties for good formwork. (08)

OR

- B) Discuss practical benefits of modular co-ordination. (08)

- Q.4** A) Describe safety precautions to be followed in erection. (07)

OR

- A) Enlist various tools available for structural health evaluation of concrete Structures. (07)
B) Write a short note on the repair materials. (08)