

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech. Summer 2017 - 18 Examination

Semester: 1
Subject Code: 03216102
Subject Name: Construction Techniques

Date: 24/05/2018
Time: 2:00PM TO 04:30PM
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.1A) Enlist and explain various formwork failures. (05)

B) What are the advantages and disadvantages of scaffolding? (05)

C) Explain slurry trench method for dewatering system. (05)

Q.2 Answer the following questions. (Attempt any three) (Each five mark) (15)

A) What do you mean by automation? Explain objectives of automation in construction.

B) Discuss benefit and limitation of slip form system.

C) What are the objectives of repair of concrete structure?

D) Modular co-ordination ensures mechanization of building industry. Justify the statement with suitable example.

Q.3A) Explain electro osmosis dewatering technique. (07)

B) Sketch typical slip form system. State function of each component of slip formwork system. (08)

OR

B) Enlist various tools available for evaluation of concrete structure. Explain any three. (08)

Q.4A) What is grouting. Discuss various grouting methods. (07)

OR

A) What is scaffolding. What are the different types of scaffolding? Explain any two. (07)

B) Discuss the evaluation procedure for repair and strengthening of concrete structure. (08)