

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**M.Tech. Summer 2018 - 19 Examination**

**Semester:1****Subject Code: 203216133****Subject Name: ADVANCED CONSTRUCTION TECHNOLOGIES****Date: 01/05/2019****Time: 10:30am to 01:00pm****Total Marks: 60**

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**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) What is de watering technology and why it is required? Enlist Dewatering techniques. (05)  
B) Which challenges has to face while using automation and robotics in construction work. (05)  
C) What is meant by enabling structures? Why enabling structures are so important in a project? (05)
- Q.2** **Answer the following questions.** (Attempt any three) (Each five mark) (15)  
A) Write objectives of Modular Coordination  
B) What is Form work? Enlist and explain its types?  
C) Write short note on Ready Mix Concrete.  
D) Enlist types of Automation .Explain any one in Detail.
- Q.3** A) Modular Co-Ordination ensures Mechanization of Building Industry. Justify the statement with suitable examples. (07)  
B) What is grouting? enlist & explain any two grouting methods. (08)
- OR**
- B) Enlist methods of compaction and discuss in detail compaction of vibration. (08)
- Q.4** A) Explain Freezing/Thermal Technique in details. (07)
- OR**
- A) Explain Well-point system in details. (07)  
B) Explain relationship between Cost and Safety of Scaffolding. (08)