

MORNING  
22 SEP 2022

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Uni. Roll No. ....

Program: B.Tech. (Batch 2018 onward)

Semester: 6<sup>th</sup>

Name of Subject: Building Construction Practice

Subject Code: PCCE-116

Paper ID: 17241

Scientific calculator is Allowed

**Detail of allowed codes/charts/tables etc. Not Required**

**Time Allowed: 03 Hours**

**Max. Marks: 60**

**NOTE:**

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

**Part – A**

**[Marks: 02 each]**

Q1

- a. What are pressure grouting processes?
- b. Explain the surface application treatment process.
- c. What are the construction Equipment required for earthwork?
- d. What is the difference between sub structure and super structure, explain with member elements.
- e. Explain the different bonds in brick masonry
- f. What is the difference between load bearing wall and framed structures in high rise building.

**Part – B**

**[Marks: 04 each]**

Q2 Explain the causes and effects of Damp Proof Course.

Q3 What are the construction techniques for the basement of building?

Q4 What are the construction steps for Cofferdam?

Q5 Explain the concept of temporary shed, centering and shuttering as per IS guidelines.

Q6 What is the material handling erecting light weight components on tall structures.

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Q7 What are the Environmental impact of materials in construction industry and their responsible sourcing

**Part – C**

**[Marks: 12 each]**

Q8 Explain the working of Pipe Jacking Process.

OR

Explain the steps and procedure for Dewatering Process on Construction site.

Q9 What are the techniques of Scaffolding procedure and for what purposes it is being used.

OR

Explain briefly the working of Pilling techniques in construction.

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