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Sub Code: RCE301

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**BTECH**  
**(SEM III) THEORY EXAMINATION 2017-18**  
**BUILDING MATERIAL & CONSTRUCTION**

Time: 3 Hours

Total Marks: 70

Notes:

- Attempt all Sections.
- Assume any missing data.

**SECTION -A**

1. Attempt all question in brief. (2x7=14)

- a) What is Fat lime?
- b) Discuss about Lime Bursting.
- c) Define Enamel Paints.
- d) Differentiate between English Bond and Flemish Bond.
- e) What is the function of Lintels.
- f) What do you mean by the word Door ?
- g) Explain the term 10 WT 13.

**SECTION -B**2. Attempt any **three** parts of the following (7x3=21)

- (a) Discuss Bogue's compound of cement. Also write the chemical composition of cement.
- (b) What are the constituent, desirable properties and types of Paints?
- (c) Discuss the various techniques and methods of Damp Prevention.
- (d) Discuss about Pitched Roof with neat sketch.
- (e) Discuss about the traps used in sanitary plumbing.

**SECTION -C**3. Attempt any **one** part of the following (7x1=7)

- (a) What are different characteristics of stones and their methods of testing. Write the name of various types of stones which are used in building work?
- (b) What do you mean by efflorescence of Brick and how will you classify the efflorescence in Brick?



4. Attempt any **one** part of the following (7x1=7)
- (c) Describe the various ingredients of plastic. Also discuss the different mechanical properties of Plastic.
  - (d) Discuss the properties, ingredients and uses of glass in building construction.
5. Attempt any **one** part of the following (7x1=7)
- (e) Write about the various requirements of a good staircase. How are the tread and riser are proportioned?
  - (f) Write a note on soil treatment for termite.
6. Attempt any **one** part of the following (7x1=7)
- (g) Discuss various technical terms used in Doors.
  - (h) What is the classification of lintels?
7. Attempt any **one** part of the following (7x1=7)
- (i) Define the term ventilation. Discuss the factor which affect ventilation? Which point should be kept in mind while planning ventilation in public building.
  - (j) What is the difference between a lift and escalator? What are the functional requirement of a lift in building?