

Printed pages: 02

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 trade 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?