

3E1452

Roll No. _____

[Total No. of Pages : 2]

3E1452**B. Tech. III Semester (Main/Back) Examination-2014****Civil Engg.****3CE2(O) Building Material & Construction****Time : 3 Hours****Maximum Marks : 80****Min. Passing Marks : 24****Instructions to Candidates:**

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)

Unit - I

1. a) Explain the method of quarrying by blasting (8)
- b) Explain the Intermittent Kiln process for burning of bricks. (8)

OR

1. a) Write about the continuous kilns with neat sketches. (8)
- b) Write about the properties of following stones : (8)
Marble, Sandstone, Lime stone, Slate

Unit - II

2. a) Explain the Le- chatelier tent for Soundness of cement. (8)
- b) Explain the flow diagram for cement manufacturing by wet process. (8)

OR

2. a) Explain the manufacturing process of fat lime. (8)
- b) Write about the uses and properties of mortar and plaster. (8)

Unit - III

3. a) Write about the fire proofing of timber (8)
b) Discuss the various defects of timber. (8)

OR

3. a) Discuss the advantages of pre-stressed concrete. (8)
b) Write about fibre-boards and plywoods. (8)

Unit - IV

4. a) Discuss the classification of buildings by occupancy. (8)
b) Write about the various types of foundations with sketches. (8)

OR

4. a) Write about the classification of buildings by type of construction. (8)
b) Discuss the foundations for Black Cotton Soil. rtuonline.com (8)

Unit - V

5. a) Explain the basic principles of sound masonry work. (8)
b) Discuss the comparison between English and double Flemish bond. (8)

OR

5. a) Draw sketches of various types of Ashlar masonry. (8)
b) Name the different types of Brick Masonry. Draw Stretcher and Header Bond. (8)
-