

3E1622

B.Tech. (Sem.III) (Main/Back) Examination, 2015
Civil Engineering
3CE2 Civil Engineering Materials

Time : 3 Hours

Total Marks : 80

Min. Passing Marks : 26

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 durability and Impact values tests on stones. (8)
 (b) Write about sandstone and limestone. (8)

OR

1. (a) Explain dressing of stones. (8)
 (b) Write about Gneiss and Marble. (8)

UNIT - II

2. (a) Explain various tests to be conducted on bricks. (8)
 (b) Write about the burning process for manufacturing of bricks. (8)

OR

2. (a) Write about various types of tiles. (8)
 (b) Explain the standard tests on tiles. (8)

UNIT - III

3. Explain the various standard tests on cements with figure. (16)

OR

3. Explain the classification and manufacturing process of lime. (16)

UNIT - IV

4. (a) Explain the various types of plastering and painting. (8)
 (b) Discuss methods of seasoning of wood. (8)

OR

4. (a) Explain ply woods and fiber boards. (8)
 (b) Write about various types of paints and varnishes. (8)

UNIT - V

5. (a) Explain stones and stabilized blocks. (8)
 (b) Write about energy used in transportation and construction process. (8)

OR

5. (a) Write in detail about types and uses of glass. (8)
 (b) Explain building materials from industrial wastes. (8)