

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE) (2011 Onwards) (Sem.-3)
BUILDING MATERIALS & CONSTRUCTION
Subject Code : BTCE-305
Paper ID : [A1117]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION A**1. Answer briefly :**

- a) "*Porous stones seriously affect the durability of stones*", comment.
- b) What is meant by cant brick?
- c) Define cavity wall.
- d) Explain slate roofing.
- e) During grinding of cement, a small quantity of gypsum is added, why?
- f) Explain, spray painting is superior to painting by brushes.
- g) Differentiate between cement and lime.
- h) How Batching of concrete is done?
- i) What is the significance of bonding in brick work?
- j) Write briefly about defects in Plastering.

SECTION-B

2. Write a note on various defects in brick work.
3. State briefly the essential requirements of a good roof.
4. Explain by sketches, the difference between English bond, Double Flemish bond and Single Flemish bond.
5. How concrete is transported and what are the precautions to be taken during the placing of concrete?
6. State some general properties of glass.

SECTION-C

7. Describe the method of damp proofing for the foundation, floors and the basement in an area having high water table.
8. Discuss in detail, the types of foundations and causes of failures of foundation and its remedial measures.
9. What is meant by Seasoning of timber? What are its objects?