Roll No. Total N	0.0	f Pages	: 02
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Total No. of Questions: 09

B.Tech.(CE) (2011 Onwards) (Sem.-3) BUILDING MATERIAL & CONSTRUCTION

Subject Code :BTCE-305 Paper ID : [A1117]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

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

SECTION-A

1. Write briefly:

- a) What are the varieties of Fire bricks?
- b) What is Artificial Stone?
- c) Give the specifications for ordinary Portland cement.
- d) What is Hydration of cement?
- e) How Batching of concrete is done?
- f) List the defects in timber.
- g) What is Ashlar masonry?
- h) Distinguish between paint and Distemper.
- i) What is acoustics?
- j) List the various types of Roofs.

SECTION-B

- 2. Explain in detail, the manufacturing process of cement.
- 3. What do you understand by the term "Workability of concrete"? How is this measured?
- 4. What are the characteristics of a good timber? Why seasoning of timber is done?
- 5. Write down various types of foundations. Explain with neat sketches any two.
- 6. What are the various types of floors? Explain the utility of any two.

SECTION-C

- 7. What are the advantages and disadvantages of cavity wall construction? Draw a section through an external cavity wall of a building showing clearly all details including the prevention of damp entry at the windows.
- 8. Explain the various operations involved in the manufacture of glass.
- 9. Draw the elevation and plan of alternate courses of one and half brick thick walls meeting at right angles in Double Flemish Bond.