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Total No. of Questions: 09

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

Subject Code: BTCE-305 M.Code: 56076

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS 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 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

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1. Answer briefly:

- a) Draw a Standard Brick with dimensions.
- b) Write the composition of cement.
- c) What do you mean by Decay of Timber?
- d) Write a note on plastic as Building Material.
- e) What are the different methods of plastering?
- f) Describe the special material for plastered surface.
- g) Differentiate between Segregation and Bleeding of Concrete.
- h) How Fire protection measures can be considered in a building?
- i) Describe cement concrete hollow blocks.
- j) Differentiate between Paint and Distemper.

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SECTION-B

- 2. What are the various tests which can be performed on the cement?
- 3. What do you mean by Plastering and defects in Plastering?
- 4. What are the causes and bad effects of Dampness?
- 5. Explain the Progressive kiln seasoning of the Timber.
- 6. Draw one and a half brick thick English Bond.

SECTION-C

- 7. A hospital building is under construction. Being a civil engineer, what are the various building services you have to keep in mind for the hospital building?
- 8. What do you mean by Workability? What are the various factors affecting workability? How it can be measured?
- 9. What do you mean by Foundation? What are the various types of Foundations? Explain causes of failures and remedial measures.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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