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10CT763

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019

Alternative Building Materials and Technology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Write a short note on global warming. (10 Marks)
- b. Explain the environmental issue concerned to building material. (10 Marks)
- 2 a. Explain the raw materials and the process used in stabilized mud block. (10 Marks)
- b. What are the characteristics of stone and laterite block? (10 Marks)
- 3 a. What is fiber reinforced concrete? Explain the types of fiber. (10 Marks)
- b. Explain the manufacturing process of lime pozzolana cement. (10 Marks)
- 4 a. Explain the material specifications and uses of composite beam panel roofs. (10 Marks)
- b. What is Ferro cement? Explain the material used for Ferro cement. (10 Marks)

PART – B

- 5 a. Write a note on elastic properties of masonry materials. (10 Marks)
- b. Explain the factors affecting compressive strength. (10 Marks)
- 6 a. What are the steps involved in design of masonry compression elements? (10 Marks)
- b. Write a note on lateral resistance. (10 Marks)
- 7 a. Explain the cost saving technique in planning, design and construction. (10 Marks)
- b. Explain the cost analysis using alternatives by case studies. (10 Marks)
- 8 a. What are the methods used in the production of precast elements? (10 Marks)
- b. What are the machines for manufacture of concrete? (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.