

CBCS SCHEME

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17CT753

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Alternate Building Materials and Technologies

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the environmental friendly and cost effective building technologies. (10 Marks)
b. Describe the environmental issues related to building materials. (10 Marks)

OR

- 2 a. Explain the characteristics of (i) Fal-G Blocks (ii) Stone masonry blocks. (12 Marks)
b. List out the requirements for building of different climatic conditions. (08 Marks)

Module-2

- 3 a. Explain the types of mortars can be prepared by using lime. (10 Marks)
b. With a neat sketch, explain metallic fibres. (10 Marks)

OR

- 4 a. List and explain any three types of agro waste. (15 Marks)
b. Brief out the field quality control test methods. (05 Marks)

Module-3

- 5 a. Describe the construction techniques in the wall construction. (10 Marks)
b. Explain fibre reinforced cement composite. List out the different types of fibres. (10 Marks)

OR

- 6 Explain:
a. Materials used in ferrocement. (10 Marks)
b. Types and properties of masonry mortars. (10 Marks)

Module-4

- 7 a. Explain the construction procedures of cool roof system and its uses. (10 Marks)
b. Describe the material specification of filler slab roof with an example. (10 Marks)

OR

- 8 a. Brief out the material specification of composite beam panel roof with its uses. (10 Marks)
b. Explain the construction procedure of masonry vaults and domes. (10 Marks)

Module-5

- 9 a. Briefly explain the cost saving building technologies in planning, designing and construction techniques. (12 Marks)
b. Explain the cost analysis using case studies. (08 Marks)

OR

- 10 Write short notes:
a. Equipments for production of stabilized blocks (10 Marks)
b. Moulds and methods of production of precast elements (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.