



CBCS SCHEME

15CT753

Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020 Alternate Building Materials and Technologies

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain the energy in building materials. (08 Marks)
b. Explain traditional building methods and vernacular architecture. (08 Marks)

OR

- 2 a. Explain the characteristics of bricks and hollow clay bricks. (08 Marks)
b. Write short note on Fal-G blocks and stone masonry blocks. (08 Marks)

Module-2

- 3 a. Explain the properties and applications of fibre reinforced concrete. (12 Marks)
b. Explain the matrix materials used in fibre reinforced concrete. (04 Marks)

OR

- 4 a. Explain field quality control test methods. (06 Marks)
b. Explain the types of agro wastes, industrial wastes and mine wastes used as building materials. (10 Marks)

Module-3

- 5 a. Explain the types of walls. (06 Marks)
b. Explain the properties of masonry mortars. (10 Marks)

OR

- 6 a. Explain the materials used in ferrocement. (08 Marks)
b. Explain the properties of ferrocement. (08 Marks)

Module-4

- 7 a. Explain the types of roofs. (06 Marks)
b. Explain filter slab roof with design example. (10 Marks)

OR

- 8 a. Explain the construction procedure of composite beam panel roofs. (08 Marks)
b. Explain the material specifications and uses of masonry vaults and domes. (08 Marks)

Module-5

- 9 a. Explain the cost concepts in buildings. (08 Marks)
b. Explain the cost analysis using alternatives by case studies. (08 Marks)

OR

- 10 a. Write short note on equipments for production of stabilized block. (08 Marks)
b. Explain the machines for manufacture of concrete. (08 Marks)

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.