

CBCS SCHEME

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15CT62

Sixth Semester B.E. Degree Examination, June/July 2019 Building Services – I

Time: 3 hrs.

Max. Marks: 80

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Draw neat sketches wherever necessary.*

Module-1

- 1 a. Explain the necessity of services for buildings with examples. (08 Marks)
b. Explain in brief, different types of building services used in buildings. (08 Marks)

OR

- 2 a. Explain systems of water supply with neat sketches. (08 Marks)
b. Explain fire water supply system provided in buildings. (08 Marks)

Module-2

- 3 a. Explain in brief, the choice of system adopted for drainage at present. (08 Marks)
b. Explain in brief, the types of sewer appurtenance used in drainage system. (08 Marks)

OR

- 4 a. List out the general principles adopted for house drainage. (08 Marks)
b. Explain the classification of AC system based on function and season. (08 Marks)

Module-3

- 5 a. Explain the properties of different acoustic materials used for acoustical design. (08 Marks)
b. Explain the design principles adopted for acoustical design of studios. (08 Marks)

OR

- 6 a. Explain the characteristics of sound. (06 Marks)
b. Explain types of horizontal barriers used for noise control in buildings. (10 Marks)

Module-4

- 7 a. Explain the necessity of fire protection for buildings. (06 Marks)
b. Explain types of fire hazards which are to be considered for fire protection of buildings. (10 Marks)

OR

- 8 a. Explain types of fire resistant construction used in buildings. (10 Marks)
b. Explain different types of fire protection equipments used in buildings. (06 Marks)

Module-5

- 9 a. Draw a typical sketch of electrical supply layout for 2 BHK residential building with conventional symbols. (08 Marks)
b. Explain the necessity of Earthing provided for electrical connection to a building. (08 Marks)

OR

- 10 a. Explain the components of Earthing system. (08 Marks)
b. Write the general procedure / method of Earthing. (08 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.