

CBCS Scheme

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15CT62

Sixth Semester B.E. Degree Examination, June/July 2018 Building Services - I

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Define Building Services. List out the different services used in building. (06 Marks)
b. Explain the requirements and necessity of services in a building. (10 Marks)

OR

- 2 a. Explain the systems of water supply, with neat figures. (08 Marks)
b. Explain briefly the types of distribution system, with merits and demerits. (08 Marks)

Module-2

- 3 a. Explain the systems of drainage with advantages and disadvantages. (08 Marks)
b. Explain the classification of traps, with neat figures. (08 Marks)

OR

- 4 a. Define Air – conditioning. Explain the classification of AC system based on function and season. (08 Marks)
b. Explain the essentials of Air – conditioning system. (08 Marks)

Module-3

- 5 a. Define Acoustics. Explain the behaviour of sound in enclosures. (08 Marks)
b. Explain the design principles for designing a acoustical studio. (08 Marks)

OR

- 6 a. Explain the design principles for acoustical design of an auditorium, with neat figure. (12 Marks)
b. What are the different acoustical defects? (04 Marks)

Module-4

- 7 a. List out the general safety requirements for fire protection in a building. (08 Marks)
b. Explain the properties of fire resisting materials. (08 Marks)

OR

- 8 a. Explain Fire protection equipments used for fire safety in a building. (08 Marks)
b. Define Fire load. Explain the classification of buildings as per Fire load. (08 Marks)

Module-5

- 9 a. Explain types of Earthing and procedure involved for Earthing the electrical supply of a building. (08 Marks)
b. Draw a typical electrical supply layout for 2BHK building and mention the conventional symbols of electrical fixtures in it. (08 Marks)

OR

- 10 a. Explain Systems of electrical wiring. (08 Marks)
b. Mention the materials and devices used in electrical wiring and their functions. (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.