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17CT71

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Building Services - II

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Define Ventilation. Why Ventilation is essential for health and comfort of an occupant in a building. (10 Marks)
b. List out various systems of Artificial Ventilation and explain any two in detail with relevant sketches. (10 Marks)

OR

- 2 a. Explain the mechanism of Sound Amplification. (10 Marks)
b. Explain the types of Sound Amplification Equipments. (10 Marks)

Module-2

- 3 a. Explain the factors affecting Thermal Comfort in Building. (10 Marks)
b. List and explain various materials used in Building for Thermal Insulation Purpose. (10 Marks)

OR

- 4 a. What is Thermal Insulation? What are the advantages of adopting Thermal Insulation? (10 Marks)
b. What are factors to be considered in the selection of Thermal Insulating Materials? (10 Marks)

Module-3

- 5 a. Write a short note on : i) Day lighting ii) Flood lighting. (10 Marks)
b. What is Illumination? Explain the laws of Illumination. (10 Marks)

OR

- 6 a. Explain the various types of Lamps. (10 Marks)
b. Write a note on Principles of Illumination. (10 Marks)

Module-4

- 7 a. Explain the types of Elevator. (10 Marks)
b. Explain the working principle of Elevator. (10 Marks)

OR

- 8 a. With a neat sketch, explain the various components of an Escalator. (10 Marks)
b. Explain the necessity of an Escalator. (10 Marks)

Module-5

- 9 a. Explain the necessity of Energy Conservation in Building. (10 Marks)
b. Explain the advantages and limitations of Energy Conservation in buildings. (10 Marks)

OR

- 10 a. Write short note on Zero Energy Building. (10 Marks)
b. Write short note on LEED Certification for Buildings and Thermal Storage. (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.