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10CT71

Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017
Building Services – II

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
at least TWO questions from each part.**

PART – A

- 1 a. Define ventilation. Why ventilation is essential for health and comfort of an occupant in a building? (10 Marks)
b. Explain ventilation due to wind effect and stack effect with neat sketches. (10 Marks)
- 2 a. Explain the factors affecting thermal comfort in buildings. (10 Marks)
b. Briefly discuss various insulation materials used for thermal comfort in buildings. (10 Marks)
- 3 a. What is illumination? How it plays a vital role in a building? (10 Marks)
b. What are the factors which affects the good lighting system in buildings? (10 Marks)
- 4 a. What is an elevator? Briefly explain the components of an typical elevator. (10 Marks)
b. Explain the working principle of an elevator with neat sketch. (10 Marks)

PART – B

- 5 a. Write a detailed note on the factors to be considered in designing an elevator. (15 Marks)
b. List out the various information to be given to the manufacturer during a lift installation. (05 Marks)
- 6 a. Explain about design principles and working aspects of an escalator. (10 Marks)
b. Why communication system in a building as a service is essential? Explain. (10 Marks)
- 7 a. Explain the factors to be considered in selection of a sound amplification equipment. (10 Marks)
b. List out various types of sound amplification equipments and explain any two in brief. (10 Marks)
- 8 a. Explain the various technologies adopted for energy conservation in building. (10 Marks)
b. Mention the advantages and limitations in conservation of energy in building. (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.