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10CT71

**Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020**  
**Building Services – II**

Time: 3 hrs.

Max. Marks:100

**Note: 1. Answer any FIVE full questions, selecting at least TWO questions from each part.**  
**2. Assume any suitable missing data.**

**PART – A**

- 1 a. Define Ventilation. Explain the importance and requirements of ventilation. (10 Marks)  
b. Explain the factors to be considered for good ventilation. (10 Marks)
- 2 a. Explain the factors affecting thermal comfort in buildings. (12 Marks)  
b. Explain heat transfer through buildings. (08 Marks)
- 3 a. Explain the laws of illumination. (10 Marks)  
b. Explain principles of illumination. (10 Marks)
- 4 a. Explain the classification of elevators. (10 Marks)  
b. Explain the working principle of an elevator. (10 Marks)

**PART – B**

- 5 a. Explain the design principles of an Elevator. (15 Marks)  
b. Explain the design consideration for Escalator. (05 Marks)
- 6 a. Explain the importance of communication system in buildings. (10 Marks)  
b. Explain the systems of communication in buildings. (10 Marks)
- 7 a. Explain the importance of sound amplification system in buildings. (10 Marks)  
b. Explain the component of sound amplification system in buildings. (10 Marks)
- 8 a. List out advantages and limitations of energy conservation in buildings. (10 Marks)  
b. Explain the necessity and importance of energy conservation in buildings. (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.