

USN

--	--	--	--	--	--	--	--	--	--

10CT71

Seventh Semester B.E. Degree Examination, June/July 2019
Building Services – II

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. Define ventilation. What are the functional requirements of ventilation systems? (10 Marks)
b. Explain different types of mechanical ventilation. (10 Marks)
- 2 a. Explain the factors affecting thermal comfort of an occupant in a building. (10 Marks)
b. Explain the modes of heat transfer through buildings. (10 Marks)
- 3 a. Define Illumination. Explain the importance of lighting in a building. (10 Marks)
b. Explain the laws of illumination. (10 Marks)
- 4 a. Define Elevator. Explain the types of elevator according to power transmission. (10 Marks)
b. Explain the working principle of an elevator with neat figure. (10 Marks)

PART – B

- 5 a. Explain in detail, the design principles of an Elevator. (15 Marks)
b. Define Escalator. Explain parts of an escalator. (05 Marks)
- 6 a. Discuss the necessity of communication system as a service in building. (10 Marks)
b. List out the advantages and disadvantages of communication systems. (10 Marks)
- 7 a. Define sound amplification. Explain the components of an sound amplification system. (10 Marks)
b. Explain the factors to be considered for selection of sound amplifications equipments. (10 Marks)
- 8 a. Explain the importance of energy conservation technologies as a building service. (10 Marks)
b. Explain the advantages and disadvantages of energy conservation technology in building. (10 Marks)

* * * * *

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.