

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

**Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019**  
**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. List out various systems of artificial ventilation and explain any two in detail with relevant sketches. (10 Marks)
- 2 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)
- 3 a. What is illumination? Explain different laws of illumination. (10 Marks)
- b. Write short notes on :
  - i) Day lighting (05 Marks)
  - ii) Flood lighting. (05 Marks)
- 4 a. Define elevator and explain the factors to be considered for the selection of elevators. (10 Marks)
- b. With a neat sketch explain the working principle of a typical passenger elevator. (10 Marks)

**PART – B**

- 5 a. With a neat sketch, explain the various components of an escalator. (10 Marks)
- b. List out the various information to be given to the manufactures during a lift installation. (10 Marks)
- 6 a. Mention the various advantages and limitations of communication systems in buildings. (10 Marks)
- b. Why communication system in a building as a service is essential. Explain. (10 Marks)
- 7 a. List out various types of sound amplification equipments and explain any two in brief. (10 Marks)
- b. Explain the factors to be considered in selection of a sound amplification equipments. (10 Marks)
- 8 a. Justify the necessity of energy conservation in buildings. (10 Marks)
- b. Explain in brief some of the method of energy conservation in buildings. (10 Marks)

\* \* \* \* \*