School of A LIBRARY

Fifth Semester B. Arch. Degree Examination, Dec. 2016/Jan. 2017 Building Services – III

Max. Marks:100 Time: 3 hrs.

> Note: 1. Answer any TWO questions each from Part - A and B. 2. Answer any ONE question form Part - C.

Part – A

- What is HVAC? What are the advantages and disadvantages of air conditioning system?
 - Explain the different systems of mechanical/artificial ventilation with neat sketches. b.

(10 Marks)

Explain window air -conditioning system with neat sketches. 2 a.

- (10 Marks)
- Explain DX air conditioning system with the help of a neat sketch. b.

(10 Marks)

- Write short notes on: 3
 - Refrigeration cycle a.
 - AHU
 - Split air conditioning c.
 - d. Dehumidifier.

(20 Marks)

Part - B

Explain in brief the different parts of an elevator (lift). 4

- (20 Marks)
- Explain with neat sketch, the various components of escalators and its application and 5 location in buildings.
- Write short notes on any four: 6
 - Sky lobby a.
 - b. Elevator pit
 - c. Machine room
 - d. Grouping of elevators.

(20 Marks)

Part - C

- Discuss the role of an architect in ensuring the fire safety in buildings. 7
- (12 Marks)

b. List out the various types of fire extinguishers.

(08 Marks)

- Write short notes on: 8
 - a. Smoke detectors
 - b. Fire resisting materials
 - Fire escape staircase c.
 - Sprinkler system.

(20 Marks)

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