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Fifth Semester B. Arch. Degree Examination, June/July 2016
Building Services – III

Time: 3 hrs.

Max. Marks: 100

**Note: 1. Answer any TWO full questions PART – A
 TWO form PART – B and ONE form PART - C.
 2. Provide sketch wherever required.**

PART – A

- 1 a. What is HVAC? Explain the advantages and disadvantages of air conditioning system. (08 Marks)
- b. Explain summer and winter air conditioning system with neat diagram. (12 Marks)
- 2 a. What is psychrometric process and explain various psychrometric terms with sketches. (10 Marks)
- b. Explain split air conditioning system with sketches. (10 Marks)
- 3 Write short notes on :
 - a. Zoning
 - b. Clean room concept
 - c. Window AC
 - d. AHU. (20 Marks)

PART – B

- 4 Explain traction lift with neat sketches along with machine room layout. (20 Marks)
- 5 a. With a neat sketch explain working of an escalator. (10 Marks)
- b. Explain with sketches grouping of elevators. (10 Marks)
- 6 Write short notes on :
 - a. Double Decker elevator
 - b. Dumb waiter
 - c. Machine roomless elevator
 - d. translator. (20 Marks)

PART - C

- 7 a. What is meant by fire load? List and explain various classes of fire. (08 Marks)
- b. List the classification and sub-classification of building based on occupancy as mentioned by NBC. (12 Marks)
- 8 Write short notes on :
 - a. Fire extinguishers
 - b. Fire detector
 - c. Fire door
 - d. Causes of fire. (20 Marks)