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Fifth Semester B.Arch. Degree Examination, Dec.2017/Jan.2018
Building Services – III

Time: 3 hrs.

Max. Marks:100

- Note:** 1. Answer any TWO full questions each from Part-A and Part-B.
2. Answer any one from Part-C.
3. Draw sketches whenever necessary.

PART – A

- 1 a. Explain DX-Air conditioning system with sketch. (10 Marks)
b. Explain split air conditioners, with neat sketches. (10 Marks)
- 2 a. What is psychrometric process and explain various psychrometric terms. (10 Marks)
b. Explain different systems of mechanical / ventilation. (10 Marks)
- 3 Briefly explain with sketches any four of the following :
a. Refrigeration cycle
b. Air Handling Unit (AHU)
c. Window Air Conditioners
d. Humidifier & Dehumidifier
e. Clear room concept. (20 Marks)

PART – B

- 4 a. Explain hydraulic lift with help of neat sketch. (10 Marks)
b. What are advantages and disadvantages of over escalator? (10 Marks)
- 5 a. Explain with help of a neat sketch the working of escalator. (10 Marks)
b. Explain how handling capacity of lift is determined. (10 Marks)
- 6 Write short notes on any four:
a. Capsule Lift
b. Double Decker Lift
c. Dumb waiter
d. Travelator
e. Machine room. (20 Marks)

PART – C

- 7 Explain various types of fire extinguishers with illustrations. (20 Marks)
- 8 Write short notes with sketches (Any four) :
a. Fire Lift
b. Fire protection systems
c. Fire Load
d. Fire zones
e. Pressurisation and compartmentation (20 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.