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Fifth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020
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' full questions from Part – C.

Part - A

- 1 a. Explain with sketches different systems of mechanical ventilation. (10 Marks)
 b. Explain briefly different types of air conditions with sketches. (10 Marks)
- 2 a. Explain refrigeration cycle and its components with neat sketch. (10 Marks)
 b. Explain summer and winter air conditioning with neat sketches. (10 Marks)
- 3 Write short notes on :
 a. AHU
 b. Clean Room concept
 c. De-Humidifier
 d. Fan coil unit. (20 Marks)

Part - B

- 4 a. Draw and explain a traction elevator and explain all its components. (10 Marks)
 b. Explain working of a Hydraulic elevator. (10 Marks)
- 5 a. Discuss the factors considered for locating escalators in a commercial building. (08 Marks)
 b. Explain with neat sketch all parts of an escalator. (12 Marks)
- 6 Write short notes on :
 a. Grouping of elevators
 b. Sky Lobby
 c. Capsule lift
 d. Passenger Handling capacity. (20 Marks)

Part - C

- 7 a. Explain fire triangle? What are the various classes of fire? (08 Marks)
 b. Explain operation of a fire extinguisher and list various types of fire extinguishers. (12 Marks)
- 8 Write short notes on :
 a. Fire Alarm
 b. Smoke detector
 c. Fire towers
 d. Refuge Area. (20 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.