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21ARC55

Fifth Semester B.Arch. Degree Examination, June/July 2025 Building Services-III

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Describe mechanical ventilation system. (05 Marks)
b. Describe the major components of A/c systems. (15 Marks)

OR

- 2 a. Write the importance of mechanical ventilation system in Basements, Kitchen and Toilets. (20 Marks)

Module-2

- 3 a. What are roof top cooling Systems Draw & write its advantages? (10 Marks)
b. Explain VRF Systems & its applications. (10 Marks)

OR

- 4 a. Explain ADS (Air Distribution System) and its functions. (10 Marks)
b. Explain ADS aspects and different vent systems with sketches. (10 Marks)

Module-3

- 5 What is an Elevator? Explain the parts of conventional elevator. (20 Marks)

OR

- 6 Write short notes on.
a. Elevators
b. Escalators
c. Travellators and write where they are used. (20 Marks)

Module-4

- 7 a. Explain fire triangle. What are the various classes of fire? (08 Marks)
b. Explain different types of fire alarm systems. (12 Marks)

OR

- 8 Explain & draw different parts of elevator. (20 Marks)

Module-5

- 9 Explain the factors considered for locating escalators. Draw with neat sketches. (20 Marks)

OR

- 10 Write short notes on.
a. Fire Alarm
b. Smoke Detectors.
c. Fire towers (20 Marks)

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