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15ARC63

Sixth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020 Building Service - III

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Draw neat sketches wherever necessary.*

Module-1

1 Explain various methods of mechanical ventilation. (20 Marks)

OR

- 2 a. What is the importance of air changes? (10 Marks)
b. What is stack effect? (10 Marks)

Module-2

3 Explain the working and parts of a window A.C unit. (20 Marks)

OR

4 Explain the working of chilled water centralized A.C plant. (20 Marks)

Module-3

5 What are the factors influencing choice of elevator system in a multi-storied building? (20 Marks)

OR

6 With a neat sketch explain working and parts of a typical geared traction lift. (20 Marks)

Module-4

- 7 a. What is classification of fire load? (10 Marks)
b. Explain fire rating. (10 Marks)

OR

8 Write short notes on : (20 Marks)
a. Pressurization
b. Area of refuge
c. Smoke detectors
d. Fire exit

Module-5

9 What are the recommendations for fire protection for multi-storied buildings as per Indian codes? (20 Marks)

OR

- 10 a. Explain the working of automatic sprinkler system. (10 Marks)
b. With neat sketches, explain components in a fire shaft. (10 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.