

# CBCS SCHEME

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18ARC63

## Sixth Semester B. Arch. Degree Examination, Jan./Feb. 2023 Building Services – 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 to explain when necessary.

### Module-1

1 What are the mechanical methods used to ventilate spaces? (20 Marks)

OR

2 Explain cooling cycle with the example of window A.C unit. (20 Marks)

### Module-2

3 With a neat diagram, explain working of centralized chilled water AC system. (20 Marks)

OR

4 Explain Air Conditioning for operation theatre (Clean Room). (20 Marks)

### Module-3

5 Differentiate between Traction and Hydraulic Lifts. (20 Marks)

OR

6 What are the placement arrangements for escalators? (20 Marks)

### Module-4

7 Explain classification of buildings based on fire hazard. (20 Marks)

OR

8 What is Compartmentation? Explain with sketches. (20 Marks)

### Module-5

9 Explain the working of automatic sprinkler system. (20 Marks)

OR

10 What are the provisions for fire fighting for high rise buildings based on NBC? (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.