

Sixth Semester B.Arch. Degree Examination, June/July 2026 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. Elaborate the advantages of mechanical ventilation in buildings. (10 Marks)
b. Explain the best suitable type of mechanical ventilation adapted for kitchen and toilets with a sketch. (10 Marks)

OR

- 2 Explain sensible heating and sensible cooling. (20 Marks)

Module-2

- 3 Discuss any one type of unitary AC system in detail. Substantiate with required architectural aspects while adopted in a building. (20 Marks)

OR

- 4 What does 'clean room' refer to? What are the salient aspects of designing clean room AC system? How does it differ from normal AC system? (20 Marks)

Module-3

- 5 Draw a neat sketch of traction elevator and label all the parts. (20 Marks)

OR

- 6 With a neat sketch, explain the working of a typical Escalator. (20 Marks)

Module-4

- 7 Why and how are buildings classified in NBC? Discuss the various classifications and related fire protection aspects. (20 Marks)

OR

- 8 Elaborate the following passive fire protection systems in a building:
a. Fire escape staircase
b. Pressurization of building
c. Compartmentation
d. Signage. (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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