

CBCS SCHEME



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18ARC63

Sixth Semester B.Arch. Degree Examination, June/July 2023

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 Under what circumstances would mechanical ventilation system be proposed in a building by an architect? Describe an apt mechanical ventilation system for a factory and a residence respectively. (20 Marks)

OR

- 2 Explain refrigeration cycle with help of schematic diagram. (20 Marks)

Module-2

- 3 What are the classification of air conditioning systems? Explain any 2 in detail. (20 Marks)

OR

- 4 Define :
i) Clean rooms
ii) Different types of duct systems. (20 Marks)

Module-3

- 5 Answer the following :
i) Explain the different types of elevators based on hoist mechanism.
ii) Explain average waiting time and peak handling capacity. (20 Marks)

OR

- 6 With the help of sketches explain in detail the different components of an elevator. (20 Marks)

Module-4

- 7 Write brief notes on :
i) Common causes of fire and classification of hazards.
ii) Classification of buildings as per NBC. (20 Marks)

OR

- 8 Explain the concept of passive fire protection in buildings. (20 Marks)

Module-5

- 9 Explain in detail with sketches different types of fire sprinkler systems. (20 Marks)

OR

- 10 Explain in detail different types of fire Alarm system. Explain the components and importance of fire alarm system. (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.