

CBCS SCHEME

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21ARC55

Fifth Semester B.Arch. Degree Examination, June/July 2024 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 Explain with neat sketches how energy efficiency in a building can be achieved in terms of HVAC. (20 Marks)

OR

- 2 Elaborate the meaning of thermal comfort with respect to built environment. (20 Marks)

Module-2

- 3 Write brief notes on:

- a. Passive cooling
b. Psychrometric chart. (20 Marks)

OR

- 4 How to integrate renewable energy in a cooling system design process? (20 Marks)

Module-3

- 5 With neat sketches explain any one type of elevator. (20 Marks)

OR

- 6 Which are the places suitable for the use of elevator, escalator and travelator give reasons for their placements. (20 Marks)

Module-4

- 7 What are the common causes for fire and how to avoid it? (20 Marks)

OR

- 8 Explain different types of passive fire protections in a building. (20 Marks)

Module-5

- 9 With the help of neat sketches explain any two types of active fire protection equipments. (20 Marks)

OR

- 10 According to NBC what are the codes used for high rise buildings in terms of fire protection. (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.