

# CBCS SCHEME

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15ARC6.3

## Sixth Semester B.Arch. Degree Examination, June/July 2019 Building Services - III

Time: 3 hrs.

Max. Marks: 100

**Note: Answer ONE full questions from each Module.**

### MODULE - 1

- 1 a. Define Mechanical ventilation. Explain the different types with neat sketches. (10 Marks)  
b. What is Psychometric process and psychometric chart? Explain with sketches. (10 Marks)

OR

- 2 a. What is Air conditioning? What are the advantages and disadvantages? (08 Marks)  
b. Explain Refrigeration cycle with neat sketches. Briefly explain each component. (12 Marks)

### MODULE - 2

- 3 a. Discuss Split Air conditioning system in today's context, with neat sketches. (10 Marks)  
b. Explain Chilled water system, with neat sketches. (10 Marks)

OR

- 4 Write short notes on : (20 Marks)  
a. AHU Room.  
b. Air filters.  
c. Window A/c unit.  
d. Clean room.

### MODULE - 3

- 5 a. What is Hydraulic lift? Discuss various types with sketches. (10 Marks)  
b. Explain Travelator and Sky lobby with sketches. (10 Marks)

OR

- 6 a. Draw a typical cross section through a traction lift and explain its parts. (10 Marks)  
b. Explain i) Quality and Quantity of services ii) Dumb waiter with sketches. (10 Marks)

### MODULE - 4

- 7 a. Explain various types of Fire extinguishers with neat sketches. (10 Marks)  
b. What is the classification of Building types as per NBC? (10 Marks)

OR

- 8 a. Discuss the characteristics of combustible and non combustible materials. (10 Marks)  
b. List and explain the causes of fire accidents in buildings. (10 Marks)

### MODULE - 5

- 9 a. What is Fire Sprinkler? How it is used in buildings? Explain with sketches. (10 Marks)  
b. Discuss the fire hydrants and automatic fire detection systems. (10 Marks)

OR

- 10 Discuss the Fire fighting system for High Rise buildings as per 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.