

CBCS SCHEME

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18ARC43

Fourth Semester B.Arch. Degree Examination, Jan./Feb. 2021 Building Services – I

Time: 3 hrs.

Max. Marks: 100

**Note: 1. Answer any FIVE full questions, choosing one full question from each module.
2. Draw relevant sketches.**

Module-1

- 1 a. How is water borne diseases causes? Explain. (05 Marks)
b. What is meant by potable water? (05 Marks)
c. Explain water carriage and water conservancy system. Compare the two systems. (10 Marks)

OR

- 2 Discuss various stages involved in water treatment process. Support the answer with neat sketches. (20 Marks)

Module-2

- 3 a. Explain the treatment of sewage, with the help of flow chart. (15 Marks)
b. Differentiate aerobic treatment and anaerobic wastewater treatment system. (05 Marks)

OR

- 4 Write short notes on:
a. Drainage of Basements
b. Landscape Drainage
c. Rainwater Harvesting
d. Harvesting of roof top water (20 Marks)

Module-3

- 5 a. What are traps? Explain the requirements of good trap. (10 Marks)
b. Why Sunken Slab (Sunk Slab) need for bathroom? Mention the application of Sunken Slab. What are the advantages and disadvantages? (10 Marks)

OR

- 6 a. Explain single stack and two stack system. Mention the suitability of each system. (10 Marks)
b. Sketch and explain i) Gate valve ii) Floor trap. (10 Marks)

Module-4

- 7 a. Briefly explain bell-types flushing listern. (10 Marks)
b. Write note on waste appliances with sketches in detail. (10 Marks)

OR

- 8 a. What do you understand by solid waste management? Explain in detail different methods of treating for solid waste. (15 Marks)
b. Explain the vermicomposting. (05 Marks)

Module-5

- 9 a. Explain meaning of the terms dry and wet risers. List fire fighting equipments. (10 Marks)
b. Describe the 'fire preventive devices' to be adopted in building for safety. (10 Marks)

OR

- 10 Explain working of central LPG supply system in high rise residential building. (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.