

CBCS SCHEME

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18ARC43

Fourth Semester B.Arch. Degree Examination, Dec.2023/Jan.2024 Building Services – I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define the terms sanitation and hygiene. (05 Marks)
b. Distinguish between waterborne, water related and water based diseases, is epidemic diseases and pandemic disease the same. Explain with quoting current situation. (15 Marks)

OR

- 2 What are the different stages of water treatment process? With neat diagram narrate the complete process till softening and disinfectioning. (20 Marks)

Module-2

- 3 With the help of a neat sketch show the house drainage and water supply system for a small house layout connecting all fixtures in W.C, Kitchen, Bath, Utility, Underground tank and over head tank. (20 Marks)

OR

- 4 What is storm water management? Discuss various methods of rain water harvesting and which method is ideal for a roof top harvesting. Narrate with illustration. (20 Marks)

Module-3

- 5 What are traps? Explain the requirements of good trap? With illustration explain the types of traps and its functions. (20 Marks)

OR

- 6 What do you understand about stack effect? With neat sketches explain in detail one pipe and two pipe systems. (20 Marks)

Module-4

- 7 Explain with neat sketches the sanitary fixtures, fittings and wellness products with 2 examples in each respectively. (20 Marks)

OR

- 8 Discuss in detail the solid waste management, types of waste and in India what are the methods adopted to manage waste? Is waste to wealth concept successful? Explain. (20 Marks)

Module-5

- 9 a. Discuss the importance of five escape corridors and staircases, explain with illustrations its design consideration. (10 Marks)
b. What are wet and dry risers. explain with relevant sketches. (10 Marks)

OR

- 10 Explain with neat sketch the 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.