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Third Semester B.Arch. Degree Examination, Dec.2024/Jan.2025 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. Explain the history of sanitation. (10 Marks)
b. What are the H₂O requirements for different building types as per Indian codes? (10 Marks)

OR

- 2 a. With a neat sketch, explain the parts and working of rapid sand pressure filter. (10 Marks)
b. What is hydro pneumatic system? (10 Marks)

Module-2

- 3 Make a comparative study of any two types of piping used for water supply. (20 Marks)

OR

- 4 Write notes on: (10 Marks)
a. Rain water harvesting (10 Marks)
b. Drainage provision for basement.

Module-3

- 5 a. With neat sketch, explain 2 pipe system for plumbing. (10 Marks)
b. Mention the principles of house drainage. (10 Marks)

OR

- 6 Write notes on: (10 Marks)
a. Gate value (10 Marks)
b. Floor trap.

Module-4

- 7 Explain the following with neat sketches: (20 Marks)
i) W.C. ii) Urinals.

OR

- 8 Explain vermicomposting and management of medical waste. (20 Marks)

Module-5

- 9 With neat sketches explain: (10 Marks)
i) Wet riser system (10 Marks)
ii) Fire hydrant.

OR

- 10 Explain solar hot water generation with the help of neat sketches. (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.