

CBCS Scheme

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15ENG4.3

Fourth Semester B. Arch Degree Examination, June/July 2018 Building Services – I

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Define the terms Hygiene. List general Hygiene habits practiced to keep good human health. (10 Marks)
b. What is waterborne disease? Explain briefly its causes and most commonly observed diseases. (10 Marks)

OR

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

Module-2

- 3 Explain the concept of House Drainage system. Sketch the plan of a small residence showing layout of drainage system with all fixtures in W.C kitchen, Bath and utility. (20 Marks)

OR

- 4 Explain the term storm water management. Discuss various storm water management method used for roof top collection ground water recharging and reuse within the project site. (20 Marks)

Module-3

- 5 What are Traps? Explain the requirements of good trap? List the types of traps based on their shapes and functions. (20 Marks)

OR

- 6 a. Explain with neat sketch one pipe and two pipe plumbing systems. (10 Marks)
b. Discuss merits and demerits of stone ware, P.V.C and cast Iron drainage pipes. (10 Marks)

Module-4

- 7 Explain with neat sketches water closets, kitchen sinks, Urinals and Both Tubs. (20 Marks)

OR

- 8 Define the term solid waste management. Discuss various steps involved in solid waste management. (20 Marks)

Module-5

- 9 a. Explain the function and importance of fire escape staircase. List the types of fire extinguishers. (10 Marks)
b. Explain meaning of the terms dry and wet risers. List fire fighting equipments. (10 Marks)

OR

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