

CBCS SCHEME



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15ENG43

Fourth Semester B.Arch. Degree Examination, July/August 2021 Building Services – I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Compare the conservancy method and water carriage method of refuse carrying systems. (10 Marks)
b. Write short notes on self-purification of natural waters. (05 Marks)
c. State the impurities in water. (05 Marks)
- 2 a. What are the important points to be considered for a proposal of water supply scheme? (10 Marks)
b. Explain the factors that effect in rate of demand. (10 Marks)
- 3 a. Explain the principles of house drainage. (10 Marks)
b. With the help of a neat sketch, explain the working of septic tank. (10 Marks)
- 4 Explain the term storm water management. Discuss various storm water management method used for the roof top collection ground water recharging and reuse within the project site. (20 Marks)
- 5 Explain the different types of valves and traps used in water supply and sanitation with the help of neat sketches. (20 Marks)
- 6 With the help of neat sketches, explain the following systems of plumbing :
a. One pipe system
b. Two pipe system
c. One pipe system partial ventilated. (20 Marks)
- 7 Explain with neat sketches water closet, kitchen sinks, Urinals and Bath Tubs. (20 Marks)
- 8 What is solid waste management? List and discuss various sources of waste and waste produced by these sources. (20 Marks)
- 9 a. What are fire hydrants? Where are they located? What are its types and how does it work? (15 Marks)
b. Explain what are dry and wet risers. (05 Marks)
- 10 a. Explain the working of central LPG supply system in high rise residential buildings. (10 Marks)
b. With the help of sketch explain the working of solar hot water system. (10 Marks)

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.