

CBCGS Scheme

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15ENG4.3

Fourth Semester B.Arch. Degree Examination, Dec.2017/Jan.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. Describe conservancy and water carriage systems of sanitation. (10 Marks)
b. Explain advantages and disadvantages of the two systems. (10 Marks)

OR

- 2 Explain with the help of a bubble diagram, the process of water purification. (20 Marks)

Module-2

- 3 a. Describe the process of conveyance of sewage from source to disposal. (10 Marks)
b. Name and explain and components of conveyance of sewage. (10 Marks)

OR

- 4 a. What are the two types of storm water drainage systems? (10 Marks)
b. Compare and describe their advantages and disadvantages. (10 Marks)

Module-3

- 5 a. What is single stack and two stack types of sanitary lines? (10 Marks)
b. What are the advantages and disadvantages of each? (10 Marks)

OR

- 6 a. What are traps in sanitary system used for? (05 Marks)
b. Explain with sketch:
(i) Floor trap. (ii) P trap. (iii) Bottle trap. (15 Marks)

Module-4

- 7 What are the difference between:
a. Tap and mixer. (05 Marks)
b. Quarter turn and single lever mixers? (05 Marks)
c. Cistern and flush valve. (05 Marks)
d. IWC and EWC. (05 Marks)

OR

- 8 a. What is organic waste treatment? (10 Marks)
b. Explain any 2 types of organic waste treatment. (10 Marks)

Module-5

- 9 a. Explain the importance of fire safety system in buildings. (05 Marks)
b. Explain the use and importance of the following components of fire safety:
(i) Fire alarm. (ii) Wet riser. (iii) Fire escape staircase. (15 Marks)

OR

- 10 a. What is the importance of solar water heating system and its contribution to environment?
Sketch a solar water heating unit. (10 Marks)
b. What is central LPG system used in apartment buildings? (10 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.