

CBCS Scheme

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15ENG4.3

Fourth Semester B. Arch Degree Examination, June/July 2017

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. How is water borne diseases caused? Explain. (05 Marks)
b. What is Hygiene? Discuss personal hygiene. (05 Marks)
c. Define and explain conservancy and water carrier system. (10 Marks)

OR

- 2 a. Mention and describe various forms of sources for water supply schemes. (05 Marks)
b. Describe 4 methods of layout of water supply distribution in an area of a Town/city. (15 Marks)

Module-2

- 3 Distinguish between :
a. Inspection chamber and Manhole (10 Marks)
b. Gully Trap and Grease Trap (10 Marks)

OR

- 4 a. What is first flush? (05 Marks)
b. Explain two methods of harvesting rain water in a domestic house. (15 Marks)

Module-3

- 5 Explain with sketch :
a. P Trap b. Gully Trap c. Bottle Trap d. Water Seal (20 Marks)

OR

- 6 a. Explain and describe 2 different types of pipe construction/material for water supply. (10 Marks)
b. Explain : i) Gate valve ii) Pressure reducing valve (10 Marks)

Module-4

- 7 a. Describe various types of water closets. (05 Marks)
b. Describe different types of flushing systems. (05 Marks)
c. Define : i) Single level mixer ii) Health faucet (10 Marks)

OR

- 8 a. What is solid waste management? List and discuss various sources of waste and waste produced by these sources. (15 Marks)
b. NBC norms for numbers of following for men/women usage in a building i) WC ii) WB. (05 Marks)

Module-5

- 9 List class of fire extinguishers for various fire hazards. Describe application for types of fire. (20 Marks)

OR

- 10 Draw a schematic fire escape staircase and list mandatory dimensions for
i) Riser ii) Tread iii) Landing iv) Headroom v) Staircase Railing. (20 Marks)

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