CBCS SCHEME

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15CV743

Seventh Semester B.E. Degree Examination, Jan./Feb. 2021
Design Concepts of Building Services

Time: 3 hrs. Max. Marks: 80

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

Module-1

1 a. Explain different methods of removal of impurities in domestic water. **(08 Marks)**
b. Explain onsite solid waste processing and disposal methods. **(08 Marks)**

OR

2 a. Explain briefly pipe networks and pipe sizes for rain water harvesting. **(08 Marks)**
b. Explain different types of sewers used in sewage disposal methods. **(08 Marks)**

Module-2

3 a. Explain the behavior of heat propagation. **(08 Marks)**
b. Discuss the factors affecting ventilation. **(08 Marks)**

OR

4 a. Briefly explain the terms humidification and dehumidification. **(08 Marks)**
b. Give a summary on central and unitary air conditioning systems. **(08 Marks)**

Module-3

5 a. Mention the usual provisions made in the rules of fire resisting buildings. **(08 Marks)**
b. Describe the various types of fire protection systems. **(08 Marks)**

OR

6 a. What are the characteristics of ideal fire resisting material? **(08 Marks)**
b. What are the objectives of Earthing and what are the guidelines for the same? **(08 Marks)**

Module-4

7 a. Bring out the codal provisions for fire and life safety. **(08 Marks)**
b. With a neat sketch explain the working of a smoke detector. **(08 Marks)**

OR

8 a. Explain the causes and spread of fire. **(08 Marks)**
b. State the general principles of thermal insulation. **(08 Marks)**

Module-5

9 a. Bring out the different classification and types of lifts. **(08 Marks)**
b. With a neat sketch explain working principle of reciprocating pump. **(08 Marks)**

OR

10 a. Summarize the importance of MIS in buildings. **(08 Marks)**
b. Explain the codal provisions for escalators and staircases? **(08 Marks)**

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