



CBCS SCHEME

15CV743

Seventh Semester B.E. Degree Examination, July/August 2021 Design Concept of Building Services

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

- a. Mention the water requirement for different types of buildings and simple methods of removal of impurities. (08 Marks)
 - b. What is rain water harvesting? Explain root top rain water harvesting. (08 Marks)
- 2 a. Explain the types, sizes of pipes and special in multistoried building. (08 Marks)
 - b. Explain in brief about solid waste collection and removal from the building. (08 Marks)
- 3 a. Define thermal conductivity and explain conductivity of building materials. (08 Marks)
 - b. Define ventilation and explain different types of ventilation system in the buildings.

 (08 Marks)
- 4 a. What are the principles of air conditioning and essential of air conditioning system?

(08 Marks)

b. Describe different systems of ducting and distribution of air conditioning.

(08 Marks)

5 a. What do you mean electrical systems and basic of electricity?

(06 Marks)

b. Explain and draw neat sketches of single phase and three phase supply.

(10 Marks)

a. Explain the planning of electrical wiring and installation in a building.

(08 Marks)

b. List the types of fire fighting equipments and different methods of fighting fire.

(08 Marks)

Prepare the plumbing layout for a residential building shown in Fig.Q7 with suitable notations.

(16 Marks)

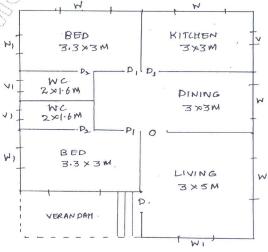
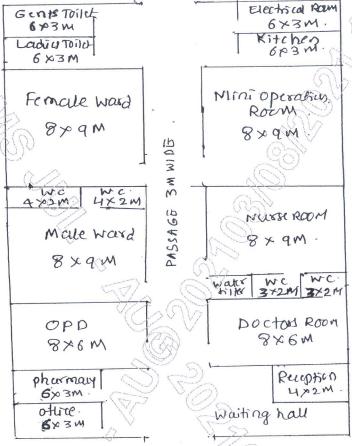


Fig.Q7

1 of 2



MAIN ENTRANCES Fig.Q8

(16 Marks)

9 a. List and explain the engineering services in a building. (08 Marks)

b. Mention the different types of pumps with their advantages and disadvantages. (08 Marks)

10 a. Mention the classification, types, sizes and uses of lifts and escalators. (08 Marks)

b. Explain the social features required for physically handicapped and elder one. (08 Marks)

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