

Unit IV

7. What are the various factors for deciding the lift locations, sizes and spatial requirements in an office cum shopping complex ?
8. Write a detailed note on the salient features, space requirements of various types of lifts. Also discuss advantages and disadvantages of lifts.

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Roll No.

F-4003

B. Arch. EXAMINATION, May 2017

(Sixth Semester)

(B. Scheme) (Main & Re-appear)

(Arch.)

AR-310-B

BUILDING SERVICES-VI

Time : 3 Hours]

[Maximum Marks : 50

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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P.T.O.

Unit I

1. For a healthy living and efficient working “human comfort” is extremely important. What is your opinion in this regard ? Explain its with suitable examples.
2. What are the various methods and equipments used for mechanical ventilation in a building ? Write in detail.

Unit II

3. Describe different types of air-conditioning systems. Explain various components of air-conditioning unit in order.
4. Explain the two main components of cooling load imposed on air-conditioning plant operating during hot weather and discuss in detail any *two* sources of sensible heat gain and latent heat gain each.

Or

Explain the use of psychometric chart in air-conditioning process and mention the details that can be found from the chart.

Unit III

5. Explain the salient features, advantages and disadvantages of window air-conditioners, split AC and Cassette AC.
6. Write notes on the following :
 - (a) Central Air-conditioning system.
 - (b) What is the function of an Air-Handling Unit (AHU) of central air-conditioning system of a building ? Explain locational criteria of AHU in the building and network of distribution system of air-conditioning.