B. Arch.
(SEM. VI) EXAMINATION, 2006-07
BUILDING SERVICES
(Mechanical Services)

Time : 3 Hours]
[Total Marks : 50

Note : (1) Answer all questions.
(2) All questions carry equal marks.
(3) Be precise in your answer.

1 Explain how air is conditioned and distributed to the various zones from a AHU.

OR

1 Explain the use of psychrometric chart in air conditioning processes and mention the details that can be found from the chart.

2 Explain the two main components of a cooling load imposed on an air conditioning plant operating during hot weather and discuss in detail any two sources of sensible heat gain and latent heat gain each.

OR

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2 Explain the difference between central and unitary air-conditioning systems.

3 Discuss the position and arrangement of lifts/escalators in a shopping mall with the help of neat sketches.

OR

3 Explain in detail the structural provisions that are required for installation of lifts in a load bearing structure.

4 Explain the various types of lifts used in multistoreyed buildings with the help of neat sketches.

OR

4 Write short notes on any two of the following:
   (a) Purpose of elevator control
   (b) Main advantages of escalators over other vertical circulation systems
   (c) What keeps an elevator car in a fixed path?

5 Write short notes on any two of the following:
   (a) Need of Ducts in air conditioning
   (b) Refrigeration cycle
   (c) Role of Filters in air-conditioning.