



Printed Pages : 2

AR-606

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 8553**

Roll No.

**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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[Contd...

- 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.