

Printed Pages : 3



AR606

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

**PAPER ID : 181606**

Roll No.

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### **B. Arch.**

(SEM. VI) THEORY EXAMINATION, 2014-15  
**BUILDING SERVICES (ME)**

Time : 3 Hours]

[Total Marks : 50

- Note :**
- (1) Attempt any **Five** questions.
  - (2) Answer should be supported by neat sketches.

- 1** Describe the parts and functioning of a simple elevator, explain through neat plan and section. Discuss the provision of Arrangement in lift lobby. **10**
- 2** Draw a section through escalators for a Ground +1 Mall building having RCC structure showing installation provisions. Discuss its various possible arrangements the provision of its arrangement. **10**
- 3** What is the difference between Unitary and Central air condition system and what are their various types. Explain with neat sketches. **10**

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[ Contd...

**4** Answer any **two** questions from the following : **5×2**

- (a) Explain with sketches different types of filters used in Air conditioning system.
- (b) Explain the air cycle in a typical air conditioning system. What is the function of an air Handling Unit (AHU) of central Air-Conditioning system of a building ? Explain location criteria of AHU in the building.
- (c) What are the types of Fans/Blowers used in Mechanical ventilation systems ? Explain with sketches.

**5** Explain any **four** briefly with sketches wherever necessary : **5×2**

- (a) Refrigeration cycle.
- (b) Cooling tower.
- (c) Human conditions of comfort.
- (d) Thermal load
- (e) FCU

**6** Explain any **two** briefly with sketches wherever necessary : **5×2**

- (a) Fire exits/escapes
- (b) Wet riser.
- (c) Types of portable fire extinguishers.

- 7 With the help of a line diagram explain the construction and functions of automatic Sprinkler system and explain its types.

**OR**

Describe the salient features of a Fire Alarm System 10  
and explain its types.

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