

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.
