

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

00186

June, 2015

**BARE-072 : ADVANCED BUILDING SERVICES
(ELECTIVE 1)**

Time : 3 hours

Maximum Marks : 70

Note : *Attempt any five questions. All questions carry equal marks. Illustrate your answers with sketches, wherever necessary.*

1. Explain in detail about the water supply and design of water distribution system for high rise buildings. 14

2. Describe the various stages of waste disposal methods. Explain the hierarchy of waste disposals with necessary sketches. 14

3. Design an electrical system for a complex with 100 shops distributed over 5 floors and each shop shall be provided with a meter separately. Each shop is provided with 4 number 40 watt fluorescent fittings, one ceiling fan, 2 number of 5 A single phase sockets and 4 number of 15 A single phase sockets. 14

4. Elaborate on the operation, layout and design consideration of the escalators. Explain with neat sketches about its various parts and components. 14
5. How is conservation of energy practised in today's scenario ? Support with examples. 14
6. What are the various prevention measures against fire taken for buildings ? Also assist your answer with provision of fire fighting services and equipments as per NBC. 14
7. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Waste Management Concept
 - (b) PBX, EPBX
 - (c) Green Buildings
 - (d) Solar Water Heater
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