

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

00219

June, 2017

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt *five* questions in all. Question no. 1 is *compulsory*. Draw neat sketches wherever necessary.

1. (a) Write short notes on any *four* of the following : 4
- (i) Vertical Riser
 - (ii) PBX
 - (iii) EPBX
 - (iv) Refuse Disposal
 - (v) Escalators
- (b) Describe in brief the safety rules and considerations for installations of escalator and passenger conveyors. 10
2. Discuss with neat sketches, the cabling system for telecommunication installations in a high rise building. 14

3. Explain the waste disposal hierarchy — Reduce, Reuse and Recycle. Write about the types of waste disposal systems. 14

 4. Write about the fire-fighting devices/equipments provision of fire safety as per National Building Code and its design implications. 14

 5. Discuss the electrical distribution systems in a high rise building. Draw neat sketches to elaborate the wiring systems and other components involved in supply and distribution. 14

 6. (a) Define electric load. 4
(b) Draw the electrical layout/arrangement for an auditorium (approximate area 500 m²) with standard fixtures. Calculate its electric load. 10

 7. Explain the plumbing distribution system. Write about the components and arrangements of distribution pipes and other accessories. 14
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