

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

00062

December, 2017

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

Time : 3 hours

Maximum Marks : 70

Note : *Parts A and C are compulsory. Attempt any **three** questions from Part B.*

PART A

1. (a) Write short notes on any **four** of the following : 4
- (i) Exit Requirements
 - (ii) Occupant Load
 - (iii) Staircase Pressurization
 - (iv) Fire Lifts
 - (v) Emergency and Escape Lighting
- (b) Describe in brief, water supply requirements for fire prevention. 10

PART B

- 2.** Discuss with neat sketches, the cabling system for telecommunication installations in a high rise building. *14*

- 3.** Explain in detail, the sanitation and drainage design for a high-rise building. Use neat sketches to illustrate the pipes and components involved. *14*

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

- 5.** Discuss the energy saving and regeneration techniques in building services with appropriate examples. *14*

PART C

6. (a) Write about the types of drainage systems disposing surface water. 7
- (b) Differentiate between Inspection Chambers, Manholes and Soakpits. 7

OR

6. (a) Discuss the electrical distribution systems in a high rise building. 7
- (b) Draw neat sketches to elaborate wiring systems and other components involved in supply and distribution. 7
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