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BARE-072

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

June, 2016

00228

BARE-072 : ADVANCED BUILDING SERVICES (ELECTIVE 1)

Time: 3 hours

Maximum Marks: 70

Note: Attempt any **five** questions. All questions carry equal marks. Draw neat sketches wherever necessary.

- 1. Write short notes on any **four** of the following: $4\times 3\frac{1}{2}=14$
 - (a) PBX
 - (b) EPABX
 - (c) Refuse Disposal
 - (d) Fire Lifts
 - (e) Staircase Pressurisation
- 2. Describe in brief, the safety rules and considerations for installations of escalators and passenger conveyors.

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3.	Discuss with neat sketches, the cabling system for telecommunication installations in a high rise building.	14
4.	Explain waste disposal hierarchy — Reduce, Reuse and Recycle. Write about the types of waste disposal systems.	14
5.	(a) Define water distribution system. Write about their components and arrangements.	6
	(b) Calculate the water demand for a 15-storied multi-family building, where each floor has 4 housing units and each unit has 2 bedrooms with attached toilets, 1 common toilet and a drawing room. There are 4 such multi-storied buildings on a circular plot. Discuss which kind of distribution layout system will be used. Explain it with sketches.	8
6.	Discuss energy saving and regeneration techniques in building services, with appropriate	
	examples.	14
7.	Write about the fire fighting devices/equipments provision of fire safety as per National Building Code and its design implications.	14