

**BACHELOR OF ARCHITECTURE (B.Arch.)**

**Term-End Examination**

**June, 2017**

**00234**

**BARE-079 : INTELLIGENT BUILDING SYSTEMS  
(ELECTIVE – 2)**

*Time : 3 hours*

*Maximum Marks : 70*

**Note :** Attempt any **five** questions. Draw neat sketches to support your answer.

- 
1. Discuss about the history of Intelligent Building Concept evolution. 14
  2. Write about building skin design and its role in intelligent building's performance. 14
  3. Explain controls and optimization of a mechanical HVAC system in Intelligent Buildings. 14
  4. Write an essay on Building Automation System in high rise structures focusing on fire safety and security. 14

5. Define Life Cycle Cost (LCC). Discuss any method of your choice to calculate the LCC of a building element. *14*
  
  6. What is the possible scope of work for a 'Facility Management Group' in a real estate company and in an estate itself? *14*
  
  7. Discuss the advanced data management system and access control system in any Intelligent Building. *14*
-