

BACHELOR OF ARCHITECTURE (BARCH)

Term-End Examination

December, 2013

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

Time : 3 hours

Maximum Marks : 70

*Note : Attempt **any five** questions in all. Supplement your answers with neat sketches wherever applicable.*

1. Write an essay on development of Intelligent Building Concept with particular emphasis on timeline and advancement in Information Technology. **14**
2. Define facility management and its scope in Intelligent Building (IB). Define Building Element Life Cycle and its significance in IB. **10+4=14**
3. Discuss Securing and Safety Control aspects in IBs with reference to access and emergency situations. **14**
4. Explain role of Building Skin in IB's performance. Also discuss different controls applicable on skin. **14**
5. Discuss control and optimization of air-conditioning systems in IBs. **14**

6. What are the basic components of lighting and lighting control systems ? Discuss strategies for energy management and lighting control in IBs. 14
 7. What are the different Internet Technologies which find their applications in Building Automation System ? Also discuss their role in Building Management. 14
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