

BACHELOR OF ARCHITECTURE (BARCH)

Term-End Examination

June, 2013

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions in all. Question no. 1 is compulsory. Illustrate your answers with neat sketches wherever possible.

1. Write short notes on the following : **3.5x4=14**
 - (a) Addressable Fire Alarm system
 - (b) Automated Building Vs. Effective Building
 - (c) Facility Management in Intelligent Buildings (IBs)
 - (d) Internet Technology in Building Automated System (BAS)

2. Discuss control and optimization of air - conditioning systems in IBs. **14**

3. Intelligent Architecture relates to three distinct areas : intelligent design, intelligent use of technology and intelligent use of space and maintenance' - explain each areas. **14**

4. Write an essay on Building Efficiency study with respect to Life-cycle cost. 14
 5. How do building skins influence functioning of IBs ? Discuss some controls for skins. 14
 6. Explain 'efficient space utilization' aspect in an IB - in light of organizational requirements, activity analysis and flexibility. 14
 7. What are the basic components of Lighting and Lighting control systems ? Discuss strategies for energy management and lighting control in IBs. 14
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