

BACHELOR OF ARCHITECTURE

Term-End Examination

June, 2012

BARE-079 : INTELLIGENT BUILDING SYSTEMS

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. Define (*any four*) : **3½x4=14**
 - (a) Automated Buildings
 - (b) Responsive Buildings
 - (c) Effective Buildings
 - (d) Energy Efficient Buildings
 - (e) Green Buildings

2. Define Intelligent Buildings. Discuss about the development of I.B. concept through recent times. **14**

3. Discuss about the present technological context enhancing building design efficiency. **14**

4. Discuss in detail about the Sensing and Auto Operational devices w.r.t. Building services that make a Building Intelligent. **14**
(Sensors, Actuators, etc examples and applications)
 5. Write about the applicability of internet in different aspects of building systems with special emphasis on security systems, Building Control Systems and lighting control systems. **14**
 6. Discuss briefly about the issues related to site, shell, skin, technology and services in a building. **14**
 7. Discuss about the building efficiency studies with respect to life cycle costs and its impact on building design. **14**
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