Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code : 16CE2001** |  | **Duration :** | **3hrs** |
| **Sub. Name : INTELLIGENT BUILDINGS** |  | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Enumerate on the different aspects of Intelligent building management system? | CO3 | 15 |
| b. | Explain the tangible and intangible benefits of intelligent buildings. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Compare and contrast ordinary building and intelligent buildings. | CO1 | 10 |
| b. | Summarize on the need for energy saving in buildings. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Explain the different types of air conditioning systems. | CO2 | 12 |
| b. | Point out the different features in green buildings. | CO3 | 8 |
| (OR) | | | | |
| 4. | a. | Recommend different types of lighting systems for schools and hospitals. | CO3 | 10 |
| b. | Describe the safety regulation used in buildings as per NBC. | CO3 | 10 |
|  |  |  |  |  |
| 5. | a. | Describe the transmission and distribution system and explain its components with neat sketches. | CO3 | 15 |
| b. | Illustrate the different types of smart materials used in building construction. | CO1 | 5 |
| (OR) | | | | |
| 6. | a. | Enumerate on the application and working of CCTV. | CO3 | 12 |
| b. | Explain the working of an automotive sprinkler system to extinguish fire? | CO3 | 8 |
|  |  |  |  |  |
| 7. | a. | Asses the various security systems in Intelligent building. | CO3 | 12 |
| b. | Explain the characteristics of satellite communication. | CO3 | 8 |
| (OR) | | | | |
| 8. |  | Classify and interpret on interior and exterior sensor used for detection. | CO3 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Write note on:   1. Fiber Optic systems 2. Satellite Communication 3. Microprocessor | CO3 | 20 |