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

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

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| **Code :** | **14CE3025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ENERGY EFFICIENT BUILDING** | **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. | Summarize the concept of energy efficient building ? | CO1 | 10 |
| b. | Explain the integrated design process adopted in green buildings. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Interpret on preserving and protecting landscape during construction of green building? | CO2 | 10 |
| b. | Suggest the selection of sustainable materials for green building construction. | CO1 | 10 |
|  |  |  |  |  |
| 3. |  | Enumerate on green building implementation and assessment as LEED standards. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Write notes on site protection and health and safety. | CO1 | 10 |
| b. | Explain about lighting systems efficiency and use of renewable energy system for meeting outdoor lighting requirement in a green building? | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain about the execution of green building project? | CO2 | 10 |
| b. | Differentiate the assessment of industrial and residential building. | CO2 | 10 |
| (OR) | | | | |
| 6. |  | Explain the trends that IGBC standards follow in the construction of green building? | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | How waste management is adopted for reducing the foot print of construction operation. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Evaluate a green building by taking case study and give the suggestion for improvement. | CO2 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | How can long term environment benefits be obtained with respect to the following?   1. Site selection. 2. Soil conservation. 3. Use of water. 4. Construction waste. 5. Storage and disposal of waste. | CO2 | 20 |