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



**End Semester Examination – Nov / Dec – 2019**

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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. | Apply energy efficient concept on buildings and explain the integrated design process. | CO1 | 10 |
| b. | Explain the selection of materials for green buildings. | CO1 | 10 |
| **(OR)** | | | | |
| 2. | a. | Describe the different International Building assessment standards used in different countries. | CO2 | 10 |
| b. | Explain the LEED standards required in rated buildings. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Outline the indoor air quality standards required in energy efficient buildings. | CO2 | 10 |
| b. | Relate on the method of managing organic solid waste. | CO2 | 10 |
| **(OR)** | | | | |
| 4. | a. | Evaluate the different features adopted in green buildings by taking a case study. | CO2 | 10 |
| b. | Interpret on products and process. | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | Implement site planning protection for green buildings. | CO2 | 10 |
| b. | Appraise on reducing carbon foot print in construction industry. | CO2 | 10 |
| **(OR)** | | | | |
| 6. | a. | Predict the minimization of construction and demolisition waste. | CO2 | 10 |
| b. | Summarize on the building commissioning of energy efficient  buildings. | CO2 | 10 |
|  |  |  |  |  |
| 7. | a. | Present the green globes assessment to be followed for existing building. | CO3 | 10 |
| b. | Outline the health and safety in construction of green building systems. | CO3 | 10 |
| **(OR)** | | | | |
| 8. | a. | Examine specification by which conventional building is converted to green building. | CO2 | 10 |
| b. | Implement the lighting systems used in green building. | CO3 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Demonstrate the different rating system practiced in India. | CO3 | 10 |
| b. | Investigate a case study of LEED rated platinum green building and point out its green features. | CO3 | 10 |