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



**End Semester Examination – Nov/Dec– 2017**

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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. | Evaluate the building energy performance certification and labeling. | CO1 | 12 |
| b. | Discuss in detail about the Heat Island Reduction, Non-roof intent and compliance options as per IGBC Green New Buildings Rating System. | CO2 | 8 |
| (OR) | | | | |
| 2. | a. | Compose the number of elements that determine the overall performance of a project assessed using BREEAM rating benchmarks | CO2 | 7 |
| b. | Illustrate a typical energy flow in buildings. How energy flows are linked in a building? | CO1 | 13 |
|  |  |  |  |  |
| 3 | a. | Construct the essential factor for the implementation of a Green Building Rating System. | CO1 | 9 |
|  | b. | Elaborate the process of certification of LEED. | CO2 | 11 |
| (OR) | | | | |
| 4. | a. | Recommend and extend the suitable CASBEE tools for assessment. | CO1 | 10 |
|  | b. | Summaries LEED-EB certified building support with case studies. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Appraise the LEED categories and points. | CO1 | 9 |
|  | b. | Elaborate the BREEAM assessment process. | CO2 | 11 |
| (OR) | | | | |
| 6. | a. | Give an example of LEED buildings in India. Propose your answer with a case study. | CO2 | 12 |
|  | b. | Discuss the benefits of a Green Globe Certification. | CO1 | 8 |
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| 7. | a. | Explain in detail about a case study on energy efficiency building in Asia. How it is implemented? | CO1 | 10 |
|  | b. | Summarize the process of IGBC green factory building. | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | Compile the objectives and requirements of reduced energy demand Green Globe design Assessment. | CO2 | 12 |
|  | b. | Label and explain the flow chart for the calculation process of energy use indicators in buildings. | CO1 | 8 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Elaborate the fitness of commissioning into the LEED Version 2.2 Process. | CO2 | 10 |
|  | b. | Enumerate the environmental benefits of Sustainable Building Design. | CO1 | 10 |

ALL THE BEST