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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **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. | Why is energy efficiency in buildings important? Write in detail about its principles. | CO1 | 12 |
| b. | Write in detail about the different steps for energy efficiency in building. | CO1 | 8 |
| (OR) | | | | |
| 2. | a. | How to reduce heating demand? Elaborate your answer with examples. | CO1 | 7 |
| b. | HAVC system – elaborate its working methods. | CO2 | 7 |
| c. | Mention the need for air-conditioning. | CO2 | 6 |
| 3. | a. | Elobrate the Key benchmarking categories examined in green building. | CO1 | 13 |
| b. | Mention the several benefits of Installing a ceiling. | CO2 | 7 |
| (OR) | | | | |
| 4. | a. | Explain the Objectives Of Sewage Collection And Disposal. | CO2 | 10 |
|  | b. | Summarize the detail description about indoor environmental quality. | CO2 | 10 |
| 5. | a. | How to go about ceiling implementation? Support your answer with neat sketch. | CO1 | 8 |
|  | b. | Observe and rephrase about effective strategies improving occupants’ comfort and control. | CO2 | 12 |
| (OR) | | | | |
| 6. | a. | Examine the Barriers to Implementation of ceilings & HVAC side. | CO2 | 12 |
|  | b. | Write in detail about advantages & drawback offered by the water carriage system. | CO1 | 8 |
| 7. | a. | Discuss about in detail about IDP. | CO1 | 7 |
|  | b. | Write about the 7 Principles of Impact Reduction of building projects elaborate your answer. | CO3 | 6 |
|  | c. | What can you do understand to move toward carbon neutrality? | CO3 | 7 |
| (OR) | | | | |
| 8. | a. | Explain sustainable construction. What are the simple ways to make it happen? Elaborate your answer. | CO1 | 10 |
|  | b. | Mention the different Strategies for Reducing the Environmental Impacts of Construction, Explain in detail. | CO3 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Explain in detail about the eight Tips to Reduce Your Building Carbon Footprint. | CO2 | 8 |
|  | b. | Write any two measure taken in Estimation of Operating Costs for green building projects. | CO3 | 7 |
|  | c. | What is a “Carbon Footprint?" Explain. | CO2 | 5 |

ALL THE BEST