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 – April/May– 2017**

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| **Sub. Code:** | **14CE2015** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CONSTRUCTION TECHNOLOGY** | **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. | Discuss on the site selection criterian for an Industrial project and discuss the layout of its planning. | CO3 | 10 |
| b. | Explain the lateral loads acting on a structure with a neat sketch. | CO2 | 5 |
| c. | Brief the setting out of plan of a building and the lines of excavation. | CO3 | 5 |
| (OR) | | | | |
| 2. | a. | Explain the features of Green Building and the Global rating systems. | CO2 | 12 |
| b. | Elaborate the Principles of Planning of a building. | CO1 | 8 |
| 3. | a. | Suggest the methods of foundation in special situations like Cavities, Black cotton soil and explain with neat sketches. | CO3 | 12 |
|  | b. | Explain the methods to improve the bearing capacity of soil. | CO2 | 8 |
| (OR) | | | | |
| 4. | a. | Reason out for the foundation failures and explain the methods to minimize. | CO2 | 8 |
|  | b. | Discuss the method of soil investigation for a depth of 3m and 6m with neat sketches. | CO2 | 12 |
| 5. | a. | Recommend the type of masonry for a massive museum construction and its importance. | CO2 | 10 |
|  | b. | List the advantages of using hollow blocks over solid blocks. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Explain the requirement of plastering and the materials used for plastering. | CO1 | 8 |
|  | b. | Compare Precast construction with Cast in situ construction. | CO2 | 8 |
|  | c. | Suggest the use of (i) Plain concrete in a building  (ii) Fiber reinforced concrete` | CO1 | 4 |
| 7. | a. | Differentiate load bearing structure with Framed structure. | CO2 | 7 |
|  | b. | Reason out the failure of formworks. | CO3 | 5 |
|  | c. | Eloborate the Anti-Termite treatment. | CO3 | 8 |
| (OR) | | | | |
| 8. | a. | Explain the causes of dampness in a building. | CO3 | 4 |
|  | b. | Under what conditions shoring can be proposed. Explain different methods with neat sketches. | CO3 | 11 |
|  | c. | Explin the different types of pointing with neat sketches. | CO3 | 5 |
|  | | **Compulsory:** |  |  |
| 9. | a. | List out the factors governing the selection of Construction Equipment. | CO1 | 4 |
|  | b. | Briefly explain the different types of concrete mixers with neat sketches. | CO2 | 12 |
|  | c. | Discuss the importance of safety measures in construction site. | CO3 | 4 |

ALL THE BEST