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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 2017**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14CE2015** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CONSTRUCTION TECHNOLOGY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Discuss the principles involved in planning a building. | CO1 | 8 |
| b. | Suggest different methods to improve the bearing capacity of soil. | CO3 | 7 |
| c. | Discuss the energy consumption in a building. | CO2 | 5 |
| (OR) | | | | |
| 2. | a. | Classify the Building types as per Building Code. | CO2 | 8 |
| b. | Discuss the Building permission procedures for construction. | CO1 | 12 |
| 3. | a. | Suggest the methods of foundation:   1. at different levels. 2. foundation close to existing building and 3. on reclaimed soil with neat sketches. | CO3 | 12 |
|  | b. | Explain various methods of improving the bearing capacity of soil. | CO2 | 8 |
| (OR) | | | | |
| 4. | a. | Describe the Geophysical methods of site exploration. | CO2 | 6 |
|  | b. | Classify foundations. Explain the foundations with neat sketches. | CO2 | 14 |
| 5. | a. | Compare Brick masonry with stone masonry. | CO2 | 10 |
|  | b. | Discuss on the function of foundations and its failures. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Discuss the formwork failures. | CO3 | 8 |
|  | b. | Discuss about the masonry construction and the materials used. | CO1 | 12 |
| 7. | a. | Discuss on the (i) stay bracing and (ii) Box sheeting methods of timbering with neat sketches. | CO2 | 7 |
|  | b. | Reason out the failure of formworks and brief the requirements of formwork. | CO3 | 8 |
|  | c. | Eloborate on the Damp proof course. | CO3 | 5 |
| (OR) | | | | |
| 8. | a. | Describe the methods of underpinning. | CO3 | 7 |
|  | b. | Classify roofing system with the drainage pattern. | CO3 | 8 |
|  | c. | List out the types of scaffolding. | CO3 | 5 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Discuss the seasoning methods of timber for construction. | CO2 | 8 |
|  | b. | Classify the construction materials. | CO1 | 5 |
|  | c. | Explain the use of an excavator and discuss its different types. | CO3 | 7 |

ALL THE BEST