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– 2017**

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| **Code :** | **14CE1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASIC CIVIL ENGINEERING** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Discuss about the scope of civil engineering. | CO1 | 7 |
| b. | List the characteristics of soft and hard timber. | CO2 | 6 |
| c. | Explain the types of concrete. | CO2 | 7 |
| (OR) | | | | |
| 2. | a. | Categorize the types of cement. | CO2 | 8 |
| b. | Elaborate the types of surveying. | CO1 | 6 |
| c. | Enumerate about the different types of stones. | CO2 | 6 |
|  |  |  |  |  |
| 3. | a. | Discuss in detail about ashlar masonry with neat sketch. | CO2 | 8 |
|  | b. | Originate the theory in English bond and Flemish bond. | CO2 | 8 |
|  | c. | Name the different types of beams with explanation. | CO2 | 4 |
| (OR) | | | | |
| 4. | a. | Summarize the different types of flooring. | CO2 | 10 |
|  | b. | Design and draw the plan of septic tank and describe briefly. | CO3 | 6 |
|  | c. | Discover the two systems used for drinking water distribution. | CO3 | 4 |
|  |  |  |  |  |
| 5. | a. | Summarize the classification of roads according to the location and sketch the cross section. | CO3 | 10 |
|  | b. | Elaborate water bound macadam (WBM) and bituminous roads. Sketch the cross section. | CO3 | 6 |
|  | c. | Outline the advantages and disadvantages of roads. | CO3 | 4 |
| (OR) | | | | |
| 6. | a. | Discover in detail about track fitting with neat sketch. | CO3 | 10 |
|  | b. | Comparison between roadways and railways. | CO3 | 3 |
|  | c. | State the importance of crossing in railways. | CO3 | 7 |
|  |  |  |  |  |
| 7. | a. | Discuss in detail about runway and runway patterns. | CO3 | 8 |
|  | b. | Explain about the navigational aids used to guide the ships. | CO3 | 8 |
|  | c. | Recall the criteria for selection of site for an airport. | CO3 | 4 |
| (OR) | | | | |
| 8. | a. | Summarize on Buttress dam and Arch dams with neat sketch. | CO3 | 10 |
|  | b. | Recall the purpose of dams. | CO3 | 5 |
|  | c. | Compile the advantages of dams. | CO3 | 5 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Discuss in detail about steel bridges and its classification. | CO3 | 8 |
|  | b. | Categorize the common types of culverts. | CO2 | 8 |
|  | c. | List out the benefits of irrigation. | CO3 | 4 |

ALL THE BEST