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



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **13CE101 / 14CE1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASIC CIVIL ENGINEERING** | **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. | Explain the scope of Civil Engineering. | CO1 | 10 |
| b. | List the qualities of a good building stone. | CO2 | 5 |
| c. | Discuss in detail the ingredients of cement and the functions of each. | CO2 | 5 |
| **(OR)** | | | | |
| 2. | a. | List out the functions of a civil engineer. | CO1 | 8 |
| b. | Compare the properties of steel with timber. | CO2 | 6 |
| c. | Analyze the characteristics of soft and hard timber. | CO2 | 6 |
|  |  |  |  |  |
| 3. | a. | Elaborate the types of surveying. | CO1 | 6 |
| b. | Describe the various components of building. | CO2 | 7 |
| c. | Summarize the different types of flooring. | CO2 | 7 |
| **(OR)** | | | | |
| 4. | a. | Explain the principle of Surveying. | CO1 | 6 |
| b. | Dicuss the types of bonds in brick masonry. | CO2 | 8 |
| c. | Define the terms : (i) Valuation (ii) Plinth area (iii) Carpet area. | CO2 | 6 |
|  |  |  |  |  |
| 5. | a. | Paraphrase in detail the sources of water supply and its requirements with neat sketches. | CO3 | 10 |
| b. | Present in detail the rain water harvesting and its advantages. | CO3 | 10 |
| **(OR)** | | | | |
| 6. | a. | Investigate the working principle of septic tank. | CO3 | 12 |
| b. | Describe the solid waste management system. | CO2 | 8 |
|  |  |  |  |  |
| 7. | a. | Describe in detail the classification of roads. | CO3 | 10 |
| b. | Explain the navigational aids used to guide the ships. | CO3 | 10 |
| **(OR)** | | | | |
| 8. | a. | Write the various components of railway track. | CO3 | 10 |
| b. | What are the criterias for selection of site for an airport? | CO3 | 5 |
| c. | Present the advantages of roadways and railways. | CO3 | 5 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Compile the classification of dams. | CO1 | 10 |
| b. | Write short notes on types of irrigation and its benefits. | CO3 | 10 |