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

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**End Semester Examination – Nov/Dec– 2017**

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| **Code :** | **17CE1002** | **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. | Discuss the scope of civil engineering. | CO1 | 10 |
| b. | List the various roles of civil engineer in infrastructure development. | CO1 | 5 |
| c. | Explain the steps involved in functions of Civil Engineering. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Describe the various components of Building with the help of neat sketch. | CO1 | 18 |
| b. | Define EIA. | CO1 | 2 |
|  |  |  |  |  |
| 3. | a. | Elaborate the process of setting out. Support your answer with neat sketch. | CO2 | 15 |
|  | b. | Describe the fundamental principles of surveying. | CO2 | 3 |
|  | c. | Tabulate the difference between Plane Surveying and Geodetic surveying. | CO2 | 2 |
| (OR) | | | | |
| 4. |  | Summarize the principles involved in planning of building. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Identify the Characteristics of Brick, Stone and Cement. | CO3 | 12 |
|  | b. | Elaborate the manufacturing process of Cement. Support your answer with flow diagram. | CO3 | 8 |
| (OR) | | | | |
| 6. | a. | Explain Header and Flemish Bond with neat sketch. | CO4 | 10 |
|  | b. | Compose the properties and uses of good mortar. | CO3 | 5 |
|  | c. | Write short note on i. Header ii. Strecher iii. King closer  iv. Queen closer v. Frog | CO4 | 5 |
|  |  |  |  |  |
| 7. | a. | Classify the following with neat sketch. i. Water bound macadam road ii. Cement concrete road iii. Bituminous road. | CO4 | 15 |
|  | b. | List the advantages of roadways over other modes of transport. | CO4 | 5 |
| (OR) | | | | |
| 8. | a. | Distinguish the components of a railway track with a neat sketch. | CO4 | 12 |
|  | b. | Enumerate the functions of airways and waterways. | CO4 | 6 |
|  | c. | Define coning of wheel. | CO4 | 2 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the technology(s) involved in intelligent buildings. | CO5 | 10 |
|  | b. | Evaluate the concepts of pre engineered buildings, also state the applications and advantages. | CO5 | 10 |

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