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



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

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| **Code :** | **17CE2012** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CONSTRUCTION PRACTICES** | **Max. Marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Sketch the important components of an two storey RCC building and explain the importance of the components. | CO1 | 20 |
| **(OR)** | | | | |
| 2. | a. | Discuss the factors to be considered in principles of planning. | CO1 | 12 |
| b. | Describe briefly the work of setting out of the plan of a building and the lines of excavation. | CO1 | 8 |
|  |  |  |  |  |
| 3. | a. | List the methods of providing DPC and what are the requirements of an ideal material for DPC? | CO2 | 10 |
| b. | Explain the difference between RCC Framed Structure and Load Bearing Structure. | CO2 | 10 |
| **(OR)** | | | | |
| 4. |  | Discuss in detail the testing on fresh concrete and hardened concrete. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Explain the components of scaffolding in detail. | CO3 | 14 |
| b. | Discuss the qualities of formwork. | CO3 | 6 |
| **(OR)** | | | | |
| 6. | a. | Discuss in detail the following  i) Construction joints ii) Expansion joints. | CO3 | 10 |
| b. | Explain the various types of sheet piles. | CO3 | 10 |
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| 7. | a. | Explain the factors involved in selection of earthwork equipment. | CO4 | 10 |
| b. | Discuss in detail the role of tractors in earth moving. | CO4 | 10 |
| **(OR)** | | | | |
| 8. | a. | If you are appointed as a civil engineer for a metro rail project, to excavate the soil and rock strata with a circular cross section, which equipment you will select and why? Explain the same. | CO4 | 12 |
| b. | Discuss the equipment for erection of structures. | CO4 | 8 |
|  | | **Compulsory**: |  |  |
| 9. |  | Discuss in detail any one case study on the safety management at construction site. | CO6 | 20 |