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



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

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| **Code :** | **14CE2004** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BUILDING MATERIALS AND GEOLOGY** | **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. | Briefly explain the internal structure of the earth. | CO1 | 10 |
| b. | Give a detailed account on the erosional and depositional landforms created by the action of rivers. | CO1 | 10 |
| **(OR)** | | | | |
| 2. | a. | Define the term weathering. | CO2 | 3 |
| b. | List out the different clay minerals based on their engineering significance. | CO2 | 10 |
| c. | Explain the types of bricks with respect to size and materials. | CO2 | 7 |
|  |  |  |  |  |
| 3. | a. | Explain the historical development of construction methodologies. | CO1 | 10 |
| b. | State the importance of geology in the field of civil engineering. | CO1 | 10 |
| **(OR)** | | | | |
| 4. | a. | Summarize the geological work of sea with suitable illustration. | CO2 | 10 |
|  | b. | Explain briefly the continental drift and plate tectonics. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain the earth structure based on seismological evidence and its components of earth surface with neat sketch. | CO4 | 10 |
| b. | Write in detail the different types of faulting in earth structure with neat sketches. | CO4 | 10 |
| **(OR)** | | | | |
| 6. | a. | Explain briefly the important crystallographic systems with examples. | CO3 | 10 |
| b. | Differentiate between Igneous, Sedimentary and Metamorphic rocks. | CO3 | 10 |
|  |  |  |  |  |
| 7. | a. | What are the simple field tests and laboratory tests that are usually carried out to determine the quality of cement? | CO5 | 10 |
| b. | Briefly explain the aggregates which is used for the construction purpose. | CO5 | 10 |
| **(OR)** | | | | |
| 8. | a. | Construct the step by step process of manufacturing of bricks. | CO4 | 10 |
| b. | Discuss briefly the geological consideration in selecting site for Dam construction. | CO1 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | List out any five miscellaneous materials for construction and relate its applications. | CO3 | 10 |
| b. | Classify the various methods of seasoning of timber and discuss each method in detail. | CO2 | 10 |