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

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**End Semester Examination – Nov/Dec – 2018**

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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. | Differentiate Mohorovicic and Gutenberg discontinuity. | CO1 | 2 |
| b. | Describe what you understand by Potholes. | CO1 | 4 |
| c. | Illustrate the geological work of wind. | CO1 | 14 |
| (OR) | | | | |
| 2. | a. | Recall the hardness for the following minerals.   1. Diamond. 2. Quartz. | CO2 | 2 |
| b. | Describe and summarize the different properties of minerals. | CO1 | 18 |
|  |  |  |  |  |
| 3. | a. | Define hypabyssal rocks. | CO2 | 2 |
| b. | List the kinds of metamorphism. | CO3 | 2 |
| c. | Elaborate the Properties of the following rocks.  Granite, Dolerite, Basalt. | CO3 | 16 |
| (OR) | | | | |
| 4. | a. | Define petrology. | CO1 | 2 |
| b. | Classify and explain the different types of rocks. | CO1 | 18 |
|  |  |  |  |  |
| 5. | a. | Sketch the Chevron fold. | CO2 | 2 |
| b. | Classify joints with a neat diagram. | CO1 | 4 |
| c. | Explain various types of fault with neat diagram. | CO2 | 14 |
| (OR) | | | | |
| 6. | a. | List the Geophysical methods for subsurface investigation. | CO2 | 2 |
| b. | Define Dip. | CO1 | 2 |
| c. | Elaborate various types of fold with neat diagram. | CO2 | 16 |
|  |  |  |  |  |
| 7. | a. | Define the term Efflorescence. | CO3 | 2 |
| b. | List the characteristics to be considered in selection of stone. | CO1 | 4 |
| c. | Describe the various tests on bricks. | CO3 | 14 |
| (OR) | | | | |
| 8. | a. | List the physical tests on Cement. | CO3 | 4 |
| b. | Explain the types of cement produced in India. | CO3 | 16 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Enumerate with appropriate figures on the types, causes of landslide with their mitigation measures. | CO3 | 20 |