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

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

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| **Code :** **16CE1001** |  | **Duration :** | **3hrs** |
| **Sub. Name :** **EVOLUTION OF CIVIL INFRASTRUCTURE** |  | **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. | Write a brief note on evolution of construction of shelters and building. | CO1 | 5 |
| b. | Summarize the step by step methods of manufacturing of bricks. | CO2 | 5 |
| c. | Explain the types of water distribution system. | CO2 | 5 |
| d. | Differentiate conventional steel and pre-engineered buildings. | CO3 | 5 |
| (OR) | | | | |
| 2. | a. | Mention the components of airport with neat sketch. | CO3 | 5 |
| b. | Explain the importance of ITS and its applications. | CO4 | 5 |
| c. | Briefly explain the factors governing highway alignment | CO3 | 5 |
| d. | Write short note on Harbour layout . | CO3 | 5 |
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| 3. | a. | What do you mean by a “Green Building”? State its concepts. | CO3 | 14 |
| b. | Explain about water retaining structures | CO4 | 6 |
| (OR) | | | | |
| 4. | a. | Explain natural seasoning of timber. | CO1 | 5 |
| b. | What is earthing? Why is it essential? | CO2 | 5 |
| c. | Explain short note on airport. | CO2 | 5 |
| d. | Write short note on Building automation. | CO3 | 5 |
|  |  |  |  |  |
| 5. | a. | Write short note on Environmental impact assessment. | CO3 | 5 |
| b. | Explain slip form construction. | CO4 | 5 |
| c. | Explain the classification of Highway. | CO1 | 5 |
| d. | List out the Requirements of an ideal permanent way. | CO1 | 5 |
| (OR) | | | | |
| 6. | a. | With the help of a neat sketches define the various components of a building. | CO2 | 10 |
| b. | Sketch the typical layout of a harbour and explain its components and classification with examples. | CO3 | 10 |
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| 7. | a. | List out the various building materials used in construction and explain the properties of any two materials. | CO2 | 12 |
| b. | Explain about permant way in detail with neat sketches. | CO3 | 8 |
| (OR) | | | | |
| 8. | a. | Write in detail about evolution of building construction. | CO1 | 16 |
| b. | Define fast track construction. | CO4 | 4 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Illustrate the case study on any two marvelous structures. | CO4 | 10 |
| b. | Discuss the case study on any two failures of structures. | CO4 | 10 |