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

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

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| **Code :** | **14CE2015** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CONSTRUCTION TECHNOLOGY** | **Max. Marks :** | **100** |

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

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Classify the buildings according to structural systems. | CO1 | 10 |
| b. | Discuss the bye-laws and regulations to govern various aspects of building. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Describe the green building concepts. | CO2 | 10 |
| b. | Summarize the loads considered as per Indian Standard Code in the construction of a residential apartment. | CO2 | 10 |
| 3. | a. | Write short notes on construction of foundation   1. on black cotton soil 2. for heavy load structures 3. near existing adjacent old structures 4. on cavities and old wells 5. on reclaimed soil or made up ground | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Compile and discuss the methods of site exploration in detail with necessary sketches. | CO2 | 15 |
|  | b. | Plan and formulate the setting out of an industrial building. | CO3 | 5 |
| 5. | a. | Formulate the general principles adopted in brick masonry construction. | CO2 | 10 |
| b. | Discriminate the bonds in stone masonry with necessary sketches. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Enumerate the step by step procedure of construction of reinforced concrete framed structure. | CO2 | 10 |
|  | b. | Indicate the object of providing plastering and pointing. Describe the procedure and materials adopted. | CO2 | 10 |
| 7. | a. | Evaluate the causes and ill effects of dampness. Summarize the methods of damp proofing and materials used as damp proof course. | CO1 | 20 |
| (OR) | | | | |
| 8. | a. | Analyse the materials used for formwork in the construction of walls, columns and column footings. Explain with neat sketches the process of formwork construction. | CO1 | 15 |
|  | b. | Predict Steel as a construction material for future. | CO1 | 5 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Describe the types of following construction equipments in detail.  i) Excavating equipments ii) Conveying Equipments iii) pumping equipments and iv) drilling equipments. | CO3 | 20 |