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



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

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| **Code :** | **14CE2028** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CONSTRUCTION MANAGEMENT** | **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. | Outline the objectives and principles of Construction Planning. | CO2 | 6 |
| b. | Analyze the different stages of a Construction Project. | CO2 | 6 |
| c. | Explain the different types of contract. | CO3 | 8 |
| **(OR)** | | | | |
| 2. | a. | List the possible contractual problems. Discuss in detail. | CO2 | 8 |
| b. | Define specifications. Bring out the importance of specifications in Construction management. | CO1 | 6 |
| c. | Discuss on Feasibility Report of a project in detail. | CO2 | 6 |
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| 3. | a. | Compose the different types of tender. | CO3 | 7 |
| b. | Investigate on the process controlling. | CO1 | 4 |
| c. | Summarize on job layout and the factors affecting job layout. | CO2 | 9 |
| **(OR)** | | | | |
| 4. | a. | Compile the methods of scheduling. Explain with the help of a suitable example, the method of preparing a bar chart. | CO2 | 6 |
| b. | Formulate a sample tender document for the following work:  Construction of a check dam across Siruvani Noyyal River near Saadivayal considering relevant datas. | CO3 | 8 |
| c. | Describe work breakdown structure. | CO1 | 6 |
|  |  |  |  |  |
| 5. |  | A management student identifies the following lists of activities and sequencing requirement along with time estimate for various activities related to completion of this project work.     1. Draw the network; 2. Determine the minimum time required for the completion of the project; 3. Identify the critical path and duration of the project; 4. Identify project activities that can be delayed without affecting the project duration. | CO3 | 20 |
| **(OR)** | | | | |
| 6. |  | Prepare a CPM network for the list of operation and time for each operation. Prepare a table giving:   1. EST, EFT, LST and LFT of all operations. 2. All 4 floats of each operation. 3. Mark the critical path on the diagram. 4. Mark the minimum time required for the completion of the project. | CO3 | 20 |
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| 7. | a. | List the importance of materials management. | CO1 | 5 |
| b. | Recommend the main considerations necessary in storing and stacking of Civil Engineering Materials. | CO1 | 6 |
| c. | Write notes on how accidents are classified. | CO2 | 4 |
| d. | Write the procedure to be followed in maintaining imprest account. | CO3 | 5 |
| **(OR)** | | | | |
| 8. | a. | Paraphrase the objectives of material management. | CO1 | 5 |
| b. | Demonstrate with the help of flow chart the organizational Structure of Public Works Departement. | CO1 | 9 |
| c. | Infer Break Even Analysis and explain its salient features and limitations. | CO2 | 6 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Explain in detail an expert system and the structure of Expert System. | CO1 | 5 |
| b. | Define (i) Data and (ii) Information. | CO3 | 4 |
| c. | Discuss the need for Construction Managers / Project Managers to have sound knowledge of various environmental issues connected with contruction. | CO2 | 6 |
| d. | Identify the requirements of Management Information System (MIS). | CO3 | 5 |