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**PRESIDENCY UNIVERSITY**

**Bengaluru**

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| **End - Term Examinations – MAY 2025** |
| **Date:** 22-05-2025 **Time:** 09:30 am – 12:30 pm |

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| **School:** SOE | **Program:** B .Tech CIV | |
| **Course Code :** CIV2035 | **Course Name:** Construction Project Management | |
| **Semester**: VI | **Max Marks**: 50 | **Weightage**: 25% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **12** | **24** | **14** | **-** | **-** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Answer ALL the Questions. Each question carries 2marks. 5Q x 2M=10M** | | | | |
| **1** | Name the different types of organizational structures. | **2 Marks** | **L1** | **CO1** |
| **2** | List the different types of float. | **2 Marks** | **L1** | **CO2** |
| **3** | Recognize the tools available for project management. | **2 Marks** | **L1** | **CO2** |
| **4** | Write an example of a situation where uncertainty might occur during a construction project. | **2 M arks** | **L1** | **CO3** |
| **5** | Describe the Delphi technique of Identification of Risk | **2 Marks** | **L2** | **CO3** |

**Part B**

**Answer the Questions. Total Marks 40M**

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| --- | --- | --- | --- | --- | --- |
| 6. | a. | Management styles can be critical in establishing and maintaining a company’s culture and they can have a significant effect on an organization’s ability to attract and retain quality employees. Describe various Management styles that has a strong influence on how a project can be managed. | 10 Marks | L2 | CO1 |
| Or | | | | | |
| 7. | **a.** | Any Organization may be able to accomplish their goals with ease if they follow effective organizational principles. Elaborate on the effective Principles of an organization? | **10 Marks** | **L2** | **CO1** |

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| 8. | a. | Risk management process is nothing but a series of steps that help identify and migrate the risks for the successful closure of a project. Describe the various steps in Risk Management Process. | 10 Marks | L2 | CO3 |
| Or | | | | | |
| 9. | **a.** | Explain the various Risk factors involved in construction. | **10 Marks** | **L2** | **CO3** |

|  |  |  |  |  |  |
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| 10. | a. | The following are the time estimates and the precedence relationships of the activities in a project network:  Draw the PERT network for the project. Find the critical path and mean duration. Also find   1. What is the probability of the project finishing within 50 days? 2. What is the project duration within which the project can be finished with 85% probability? | 20 Marks | L3 | CO2 |
| Or | | | | | |
| 11. | **a.** | A continuous sequence, consisting of nodes and activities alternatively, beginning with the start event and stopping at the end event of a network is called path in the network. Find out the completion time and the critical activities for the following project: | **10 Marks** | **L3** | **CO2** |
|  | **b.** | Draw the Gantt chart for the following activities and determine the duration.   |  |  |  | | --- | --- | --- | | **Activity** | **Predecessor activity** | **Duration (days)** | | **P** | **~** | **2** | | **Q** | **P** | **3** | | **R** | **Q, T** | **2** | | **S** | **R** | **4** | | **T** | **~** | **3** | | **U** | **T** | **1** | | **V** | **U** | **2** | | **W** | **S,V** | **3** | | **10 Marks** | **L3** | **CO2** |