**18CE701**

**Hall Ticket Number:**

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| **IV/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION** | | | |
| **November,2022** | **Civil Engineering** | | |
| **Seventh Semester** | **Construction Management** | | |
| **Time:** Three Hours | | **Maximum: 5**0 Marks | |
| *Answer Question No. 1 Compulsorily.* | | | (10X1 = 10 Marks) |
| *Answer* ***ANY ONE*** *question from each Unit.* | | | (4X10=40 Marks) |

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| 1. | a) | Define controlling | CO1(BL1) | | **1M** |
|  | b) | Define construction management | CO1(BL1) | | **1M** |
|  | c) | Define Float | CO2(BL1) | | **1M** |
|  | d) | Distinguish between CPM and PERT | CO2(BL1) | | **1M** |
|  | e) | Define PERT | CO2(BL1) | | **1M** |
|  | f) | Define Resource Smoothing | CO1(BL1) | | **1M** |
|  | g) | Define Resource Leveling | CO3(BL1) | | **1M** |
|  | h) | Name various network techniques in construction management | CO3(BL1) | | **1M** |
|  | i) | What is the importance of safety in construction | CO4(BL1) | | **1M** |
|  | j) | Differentiate between quality control and assurance | CO4(BL1) | | **1M** |
| **Unit - I** | | | | | |
| 2. | a) | Explain in detail about the objectives of construction management | CO1(BL1) | **5M** | |
|  | b) | Discuss about the various steps involved in planning with advantages | CO1(BL1) | **5M** | |
|  |  | **(OR)** |  |  | |
| 3. |  | Explain the main causes of Project Failure. | CO1(BL1) | **10M** | |
| **Unit - II** | | | | | |
| 4. |  | The following table gives the activities in the construction of a project   |  |  | | --- | --- | | Activity | Duration(days) | | 1-2 | 20 | | 1-3 | 25 | | 2-3 | 10 | | 2-4 | 12 | | 3-4 | 6 | | 4-5 | 10 |   Draw the network for the project and find the critical path. Determine the free float, total float and independent float | CO2(BL2) | **10M** | |
|  |  | **(OR)** |  |  | |
| 5. | a) | Explain the steps involved for optimization of cost | CO2(BL1) | **5M** | |
|  | b) | Explain different types of floats | CO2(BL1) | **5M** | |

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| **Unit - III** | | | | |
| 6. | a) | Write a short note on the following   1. ABC classification of materials 2. Stores management | CO3(BL1) | **5M** |
|  | b) | Explain the Earth work Excavation equipment. | CO3(BL1) | **5M** |
|  |  | **(OR)** |  |  |
| 7. | a) | List various types of earth moving equipment | CO3(BL1) | **5M** |
|  | b) | Explain various factors affecting the selection of equipment. |  |  |
| **Unit - IV** | | | | |
| 8. | a) | Write a short note on the following   1. Safety budgeting 2. Total quality control | CO4(BL2) | **5M** |
|  | b) | Describe the importance of documentation in construction management | CO4(BL1) | **5M** |
|  |  | **(OR)** |  |  |
| 9. | a) | Write a short note on the following   1. Quality control circles 2. Documentation | CO4(BL1) | **5M** |
|  | b) | Explain the safety benefits to Employers, Employees and Customers. | CO4(BL1) | **5M** |

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