**14CE802**

**Hall Ticket Number:**

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| **IV/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION** | | | |
| **July , 2021** | **Civil Engineering** | | |
| **Eight Semester** | **Construction Management** | | |
| **Time:** Three Hours | | **Maximum :** 60 Marks | |
| *Answer ALL Questions from PART-A.* | | | (12X1 = 12 Marks) |
| *Answer* ***ANY FOUR*** *questions from PART-B.* | | | (4X12=48 Marks) |
| **PART - A** | | | |

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| 1. Answer all questions | | (12X1=12Mark) | | |
| a. Define scheduling. | | | |  |
| b. What are the uses of milestone chart? | | | |  |
| c. Define float. | | | |  |
| d. Define critical path. | | | |  |
| e. Name any two construction equipment used in the field. | | | |  |
| f. What is normal deviate? | | | |  |
| g. What is feasibility report? | | | |  |
| h. What is resource smoothing? | | | |  |
| i. Define Management Information System. | | | |  |
| j. What are the elements of quality? | | | |  |
| k. Define payback period. | | | |  |
| l. What is inflation? | | | |  |
| **PART - B** | | | | |
| 2. | Explain the main causes of project failure. | | | 12M |
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| 3. | What are the methods of scheduling? Explain with the help of a suitable example, the method of preparing a bar chart | | | 12M |
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| 4. | A project is composed of seven activities whose time estimates are listed below:   |  |  |  |  | | --- | --- | --- | --- | | Activity | Expected duration(weeks) | | | | Optimistic time(to) | Pessimistic time(tp) | Most likely time(tm) | | 1-2  1-3  1-4  2-5  3-5  4-6  5-6 | 1  1  2  1  2  2  3 | 7  7  8  1  14  8  15 | 1  4  2  1  5  5  6 |  1. Draw the project network   ii) Find the TE and TL of all the events in the network and determine the critical path. | | | 12M |
| **P.T.O.**  **14CE802** | | | | |
| 5. a | Write the differences between CPM and PERT. | | 6M | |
| b. | Explain the steps involved in optimization of cost. | | 6M | |
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| 6.a | What are the steps involved in resource levelling? | | 6M | |
| b | Write short note on functions of material management. | | 6M | |
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| 7.a | Explain the various factors governing the selection of construction equipment. | | 8M | |
| b | Write short note on ABC classification. | | 4M | |
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| 8.a | Explain quality assurance techniques. | | 6M | |
| b | What do you mean by Total Quality Management? Why is it necessary? | | 6M | |
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| 9.a | Write short notes on Return on Investment. | | 6M | |
| b | Describe the role of computers in construction industry. | | 6M | |

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