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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year II Semester Regular Examinations July-2021**

**CONSTRUCTION PROJECT MANAGEMENT**

(Civil Engineering)

Time: 3 hours

Max. Marks: 60

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

- |     |  |    |    |
|-----|--|----|----|
| 1 a | List out the Functions of construction management; | L1 | 2M |
| b   | Define PERT.                                       | L1 | 2M |
| c   | Define normal & crash cost.                        | L1 | 2M |
| d   | What is a contract document?                       | L1 | 2M |
| e   | Write any four principles of safety.               | L1 | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

- |     |   |    |    |
|-----|---|----|----|
| 2 a | Define construction project. Write about its unique features. | L1 | 5M |
| b   | What are the types of construction? Explain.                  | L2 | 5M |

**ORL**

- |   |  |    |     |
|---|--|----|-----|
| 3 | Draw the sketches of some common network logic ways used in network. | L1 | 10M |
|---|--|----|-----|

**UNIT-II**

- |   |  |    |     |
|---|--|----|-----|
| 4 | What is CPM network analysis? Explain in detail. | L1 | 10M |
|---|--|----|-----|

**OR**

- |   |  |    |     |
|---|--|----|-----|
| 5 | A project has the following characteristics. | L2 | 10M |
|---|--|----|-----|

Activity	Predecessor	Duration(weeks)		
		$t_o$	$t_m$	$t_p$
A	-	0.5	2	7
B	A	1	3	5
C	A	1	5	7
D	B	3	5	3
E	C	2	4	9
F	C	3	7	9
G	D,E	4	6	8
H	F	6	8	10
I	G,H	2	6	8
J	G,H	5	8	8
K	I	1	3	8
L	J	3	7	8

Construct a PERT network and compute the probability that the project will be completed within 30 weeks.

**UNIT-III**

- 6 Discuss in detail about project cost. **L2 10M**
- OR**
- 7 Explain the role of contracting in network analysis for cost optimization. **L2 10M**

**UNIT-IV**

- 8 What are the different types of tenders? Explain briefly. **L1 10M**
- OR**
- 9 What are the conditions carried out at during contract? **L1 10M**

**UNIT-V**

- 10 What are the common causes of construction site accidents? **L1 10M**
- OR**
- 11 Define Inspection, Quality control and Quality assurance in projects in detail. **L1 10M**

**\*\*\*END\*\*\***