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M.TECH

Total Number of Pages : 2

M.TECH 3rd SEMESTER REGULAR EXAMINATIONS, DECEMBER 2018
PROJECT PLANNING AND CONSTRUCTION MANAGEMENT

Branch: SE, Subject Code:MSEOE3012

(Regulations 2017)

Time: 3 Hours

Max Marks : 70

Question Code: RD18002005

PART-A (10 X 2=20 Marks)

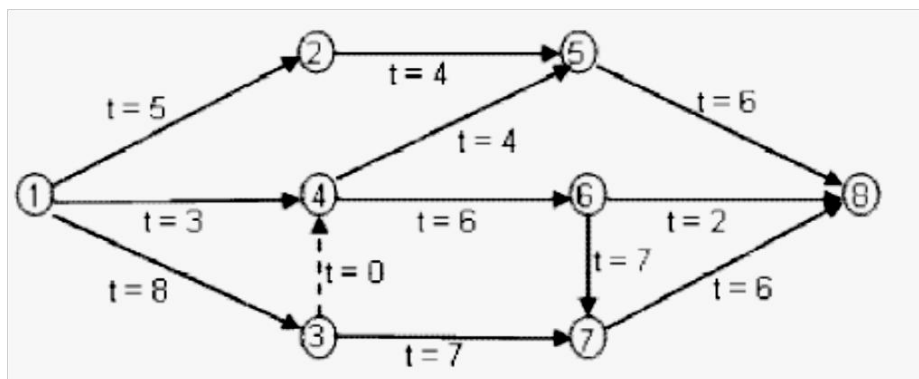
1. Answer the following questions.

- State the phases of project management.
- Define total float.
- What do you mean by liquidated damage?
- What is Trade union Act-1926?
- How useful is resource leveling process?
- What is forward planning?
- Explain the term "Job layout"
- Define depreciation cost.
- What are the four 'M' defined in construction management.
- What is a tender.

PART-B (5 X 10=50 Marks)

Answer any five questions from the following.

- For the network shown in the figure below determine the total float for each activity and show the critical path. [5]
- Also determine the free float and independent float for each activity. [5]



- Discuss about the limitations bar charts and their remedial measures. [5]
- Discuss about the rules for provision of dummies. [5]



4. (a) Write importance of project scheduling in brief. [5]
(b) Briefly discuss the procedure for inviting a bid. Describe briefly the safety measures during Formwork and Scaffold operations in construction industry. [5]
5. (a) Determine the optimum time and minimum cost for project with the following data: [5]
The direct cost per day is Rs. 400/-

Activity	Normal		crash	
	Time (Days)	Cost (Rs.)	Time (Days)	Cost (Rs.)
1-2	9	1300	4	2400
1-3	15	1000	13	1380
2-3	7	7000	4	1540
2-4	7	1200	3	1920
2-5	12	1700	6	2240
3-6	12	600	11	700
4-5	6	1000	2	1600
5-6	9	900	6	1200

- (b) List out the documents required for CPWD contract? [5]
6. (a) Describe the stages of construction. [5]
(b) What are the factors to be considered in the selection of construction equipment? [5]
7. (a) How does CPM network facilitate the work of construction management of project? [5]
(b) Define arbitration and what is its objective. Describe the qualifications of arbitrator. [5]
8. Write Short notes on any two of the following
(a) Tender Document [5]
(b) Fulkerson's Rule [5]