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Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April 2014
(2008 Scheme)**

Branch : Civil Engineering

08.805 : CONSTRUCTION MANAGEMENT

Time : 3 Hours

Max. Marks : 100

Instruction : Answer **all** questions from Part **A** and **one** question from **each** Module of Part **B**.

PART – A

1. Briefly explain the functions of management.
2. What are the various stages in a construction project ?
3. Differentiate between EMD and Security Deposit.
4. Compare different types of scheduling techniques.
5. What is the difference between resource levelling and resource smoothing ?
6. What is cost-benefit analysis ?
7. What is meant by a float in network scheduling and what is its significance ?
8. What do you mean by the Life Cycle of a project ? Illustrate how expenditure varies during different stages of the Life Cycle in a construction project.

(8×5= 40 Marks)

PART – B

Module – I

9. Explain the applications of computers in construction industry.

OR

10. Explain the relevance of scientific management in construction industry.

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P.T.O.

**Module – II**

11. Describe the procedure for recording the progress of a construction work and how payments are made to the contractor.

OR

12. What are the important clauses included in a construction contract ? Explain the relevance of these clauses.

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Module – III

13. a) What are the different types of float used in CPM analysis ? How they are useful for taking decisions ?
- b) A maintenance project consists of the following 10 activities listed below. Draw a network schedule of the project. Find out the duration of the project. Also calculate the total float, free float and independent float of each activity.

Activity	Duration (days)
1-2	2
2-3	3
2-4	5
3-5	4
3-6	1
4-6	6
4-7	2
5-8	8
6-8	7
7-8	4

OR



14. A project is composed of 7 activities whose time estimates are as shown below :

Activity	Optimistic time (weeks)	Most likely time (weeks)	Pessimistic time (weeks)
1-2	1	1	7
1-3	1	4	7
1-4	2	2	8
2-5	1	1	1
3-5	2	5	14
4-6	2	5	8
5-6	3	6	15

Draw the project network schedule and determine the critical path. What is the probability of completing the project 3 weeks earlier than expected ?

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