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E – 2354

Reg. No. : .....

Name : .....



**Eighth Semester B.Tech. Degree Examination, May 2018  
(2013 Scheme)**

**13.804 : CONSTRUCTION MANAGEMENT (C)**

Time : 3 Hours

Max. Marks : 100

*Note : Normal distributed tables are permitted.*

**PART – A**

Answer **all** questions :

**(5×4=20 Marks)**

1. Explain the roles and responsibilities of each member in a construction team.
2. Discuss the applications of computers in construction management.
3. Describe prequalification of contractors.
4. Enumerate the details to be included in a notice inviting tender.
5. Explain the significance of (i) critical path (ii) float in construction scheduling.

**PART – B**

Answer **any one full** question from **each** Module. **Each** question carries **20** marks.

**Module – I**

6. Describe the contributions of F.W. Taylor management.
7. a) Discuss the need of management in construction projects.  
b) Explain the functions of management.

**Module – II**

8. Explain the life cycle of a construction project.
9. Describe any two methods of determining the economic feasibility of construction projects.

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### Module - III

10. Describe the process of tendering for a construction work.
11. Explain any four important clauses in construction contracts.

### Module - IV

12. The table shows the details of various activities of a small projects.

Activity	A	B	C	D	E	F	G	H	I	J
Predecessor	-	-	A	A	B	E	C	D, F	H	G
Optimistic time (days)	4	3	7	5	6	2	3	7	2	6
Most likely time (days)	6	5	8	7	7	3	4	9	4	8
Pessimistic time (days)	8	7	9	9	8	4	5	11	6	10

- a) Draw an AON network and calculate the project completion time with 50% probability.
- b) Find the probability of completing the project in (i) 30 days (ii) 26 days.
- c) What project completion date has 80% chance of being met ?
13. A project consists of jobs as in the following table. The normal time and crash time (in hours) of each job and its cost is also given.

Activity	Predecessor	Normal duration	Normal cost (Rs.)	Crash duration	Crash cost (Rs.)
A	-	8	3600	6	4500
B	A	7	1800	4	4230
C	A	12	4500	5	8280
D	A	9	3150	5	4590
E	B, C, D	6	2250	6	2250

If the indirect cost is Rs. 700/hr, determine the optimum cost and time.