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D – 4026

Reg. No. :

Name :

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

13.804 : CONSTRUCTION MANAGEMENT (C)

Time : 3 Hours

Max. Marks : 100

Note : Normal distribution tables are permitted.

PART – A

Answer **all** questions.

1. Discuss the functions of management.
2. What are the avenues open for application of computers in construction management ?
3. Discuss the various types of tenders.
4. Explain the arbitration clause in a construction contract.
5. Explain time-cost optimization. **(5×4=20 Marks)**

PART – B

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

Module – I

6. Discuss the principles of management advocated by Henri Fayol.
7. Explain scientific management. Discuss its pros and cons.

Module – II

8. Explain the various stages in the pre-implementation phase of a construction project.
9. What is techno-economic feasibility analysis ? Describe any two methods of performing analysis.

P.T.O.



Module – III

- 10. What are the various types of cost plus contracts ? Discuss the relative advantages and disadvantages of each type.
- 11. a) Explain prequalification of contractors.
b) Write notes on (i) liquidated damages (ii) security deposit.

Module – IV

- 12. For the given data, draw an AON network and determine the critical path. Also find the total float, free float and independent float of each activity.

Activity	A	B	C	D	E	F	G	H	I
Predecessor	-	A	A	C	B	B, D	C	F, G	E, H
Duration (days)	4	6	4	2	4	5	3	4	2

- 13. Draw an AON network and determine the expected project completion time for the project with activity times as given in the following table. Also determine the probability of completing the project in 20 weeks.

Activity	A	B	C	D	E	F	G	H	I	J
Predecessor	-	-	A	A	A	C	D	B, E	H	F, G, I
Optimistic time (weeks)	4	1	2	3	2	1.5	1.5	2.5	1.5	1
Most likely time (weeks)	5	1.5	3	4	3	2	3	3.5	2	2
Pessimistic time (weeks)	12	5	4	11	4	2.5	4.5	7.5	2.5	3