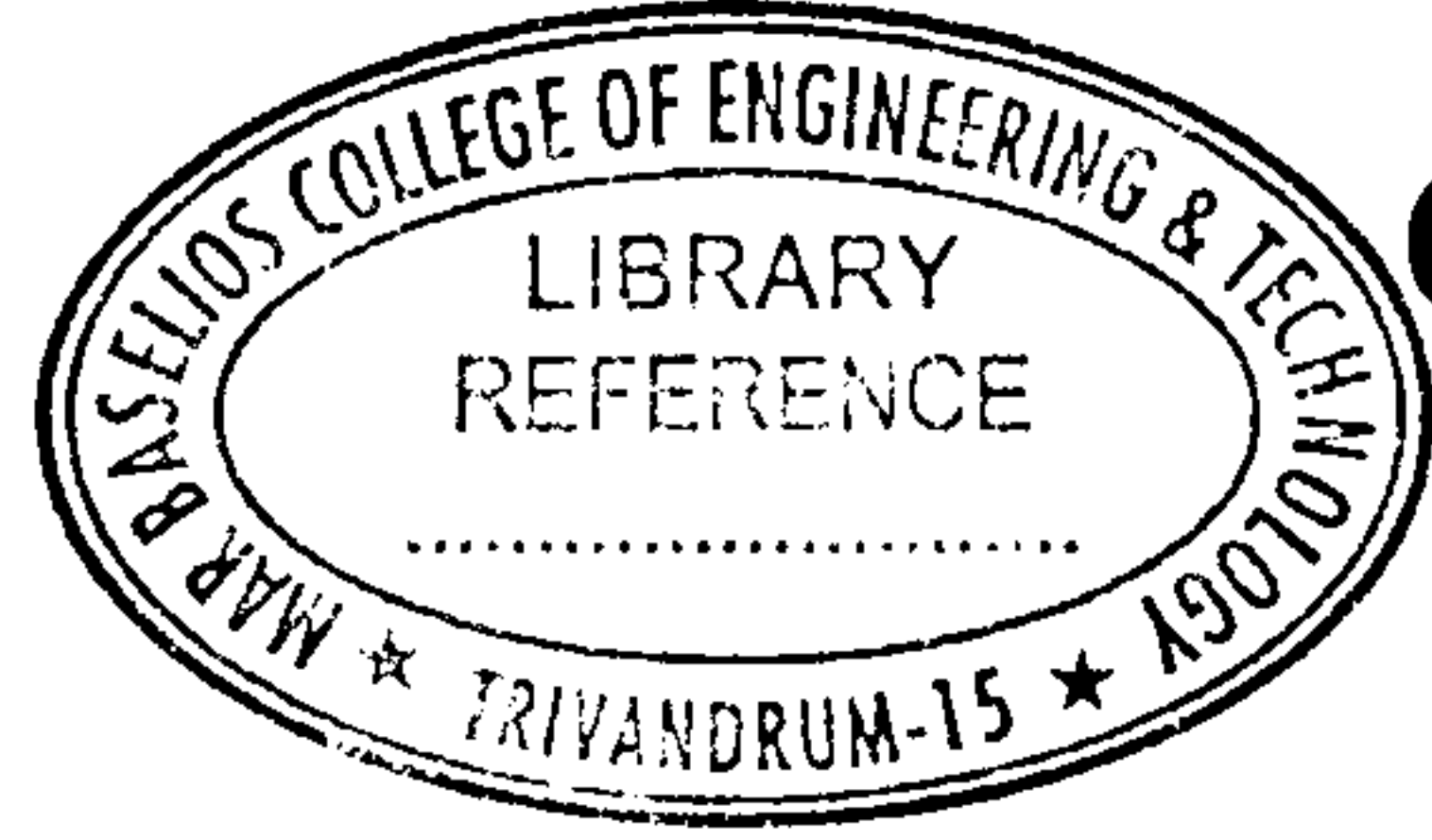




(Pages : 2)



C – 2339

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, May 2017
(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 resources used in construction industry.
2. Explain time value of money. What is its significance in economic evaluation of projects ?
3. Differentiate between earnest money deposit and security deposit.
4. Discuss the advantages and disadvantages of bar charts in project scheduling.
5. Explain time-cost tradeoff. **(5×4=20 Marks)**

PART – B

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

Module – I

6. Elaborate on the contributions of Henri Fayol to management.
7. a) Discuss the advantages of applying scientific principles to management.
b) Enumerate the applications of scientific management principles in construction.



Module – II

8. Explain the various phases in the life cycle of a construction project.
9. a) Describe the applications of computers in construction management.
b) Explain rate of return analysis.

Module – III

10. Explain in detail the stages involved in awarding a public work to a contractor.
11. Discuss any four important types of contracts with their relative advantages and disadvantages.

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
Predecessor	–	A	A	A	B	B	D,E	C
Duration (days)	5	10	8	12	7	4	5	8

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 43 days.

Activity	A	B	C	D	E	F	G
Predecessor	–	A	B	B	D	C,E	E
Optimistic time (days)	6	4	3	4	2	2	7
Most likely time (days)	8	4	3	11	9	8	15
Pessimistic time (days)	10	10	3	12	10	14	17