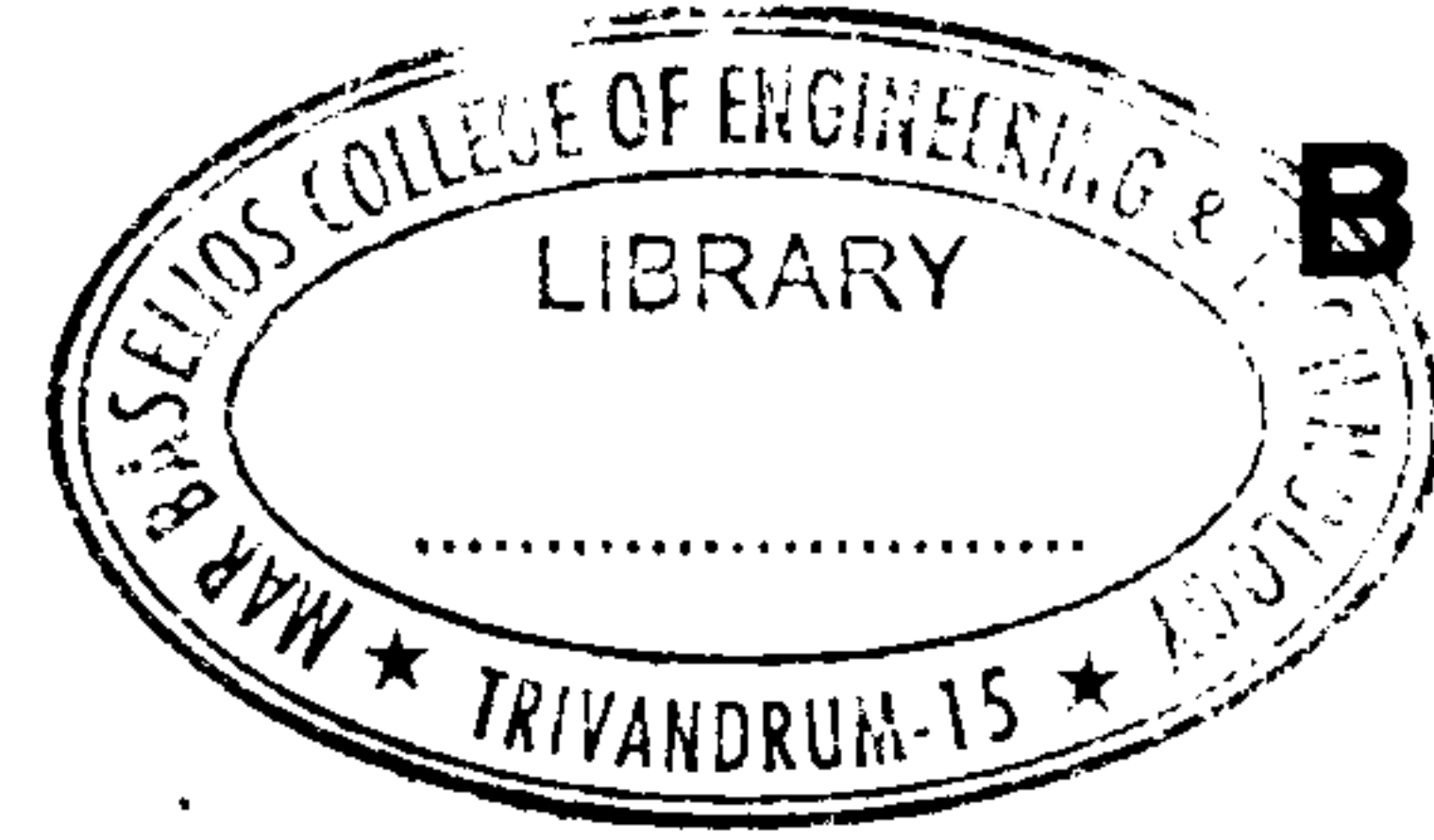




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B – 2528

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, December 2016
(2008 Scheme)
Branch : CIVIL ENGINEERING
08.805 : Construction Management**

Time : 3 Hours

Max. Marks : 100

Instructions : Answer **all** questions from Part A and **one** question from **each** module of Part B.

PART – A

1. What are the merits and demerits of the management principles of Taylor ?
2. What are the different stages in a construction project ?
3. What are the different types of tenders ?
4. Differentiate between PERT and CPM.
5. Explain a dummy activity in a network schedule.
6. Briefly explain the applications of computers in construction management.
7. Explain time-cost trade off.
8. An amount of Rs. 1,00,000 is invested in a project with a potential yield of Rs. 2,00,000 at the end of sixth year. What is the rate of return of the project ?
(8x5=40 Marks)

**PART – B
Module – I**

9. Explain the principles of management advocated by Fayol.

OR

10. Explain in detail how a feasibility study of a construction project is carried out. **20**

P.T.O.



Module – II

11. Describe the different types of contract adopted in construction industry.

OR

12. Explain the procedures followed in inviting and awarding of tenders for a construction project.

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Module – III

13. Determine the critical path and compute the total float, free float and independent float for the activities listed below.

Activity	1-2	1-3	1-4	2-7	3-4	4-5	4-7	5-6	5-7	5-8	6-8	7-8
Duration (days)	8	10	5	6	3	7	0	4	3	6	5	5

OR

14. A project consists of activities as shown below. Draw the project network, calculate the length and variance of the critical path. What is the probability of completing the project in 36 days.

Activity	Optimistic time (days)	Most likely time (days)	Pessimistic time (days)
1-2	3	5	7
1-3	1	2	3
2-5	6	8	12
3-4	8	12	17
4-5	0	0	0
4-6	6	9	12
4-7	3	6	8
5-8	5	7	9
6-9	1	2	3
7-10	8	15	20
8-9	3	6	8
9-10	2	4	6

20