



(Pages : 2)

D – 3404

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, December 2017
(2008 Scheme)
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. "Management is a science and art". Comment on the statement.
2. What are the resources in a construction industry ?
3. How can the economic feasibility of projects be assessed ?
4. What are the details to be given in a notice inviting tenders ?
5. How and why is prequalification of contractors done ?
6. What is an equipment schedule ?
7. What is the significance of floats in network analysis ?
8. Explain the procedure for resource allocation. **(8×5 =40 Marks)**

PART – B

Each full question carries 20 marks.

Module – 1

9. Trace the evolution of management thought, mentioning the main contributions of pioneers in the field.

OR

10. What are the avenues open for computer applications in construction management ?

P.T.O.



Module – 2

11. What are the components of a contract document ? Explain the importance of each of them.

OR

12. Explain any four important clauses commonly included in contract documents to ensure successful completion of the work.

Module – 3

13. The following table lists the activities and duration of a maintenance project.

Activity	1-2	1-3	1-4	2-5	3-6	3-7	4-7	5-8	6-8	7-9	8-9
Duration (weeks)	2	2	1	4	5	8	3	1	4	5	3

- Draw the project network.
- Find the critical path and duration of the project
- Find the total and free floats of all activities.

OR

14. The following data pertain to a project.

Activity	1-2	1-3	2-3	2-4	3-4	3-5	4-6	5-6
Normal Cost (Rs.)	1400	2000	1100	800	–	900	2500	500
Normal Time (days)	6	8	4	3	–	6	10	3
Crash Cost (Rs.)	1900	2800	1500	1400	–	1600	3500	800
Crash Time (days)	4	5	2	2	–	3	6	2

- Draw the network and find out the critical path and normal project duration.
- If the indirect cost is Rs. 300/day, find optimum duration by crashing and corresponding project costs.