

**B.Tech. Civil (Construction Management) /
B.Tech. Civil (Water Resources Engineering)**

Term-End Examination

December, 2013

ET-524(B) : CONSTRUCTION MANAGEMENT-I

Time : 3 Hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Missing data can be suitably assumed.

1. (a) Write down the need for Network Analysis. 7
How it is used in CPM network model ?
Explain with example.
- (b) Write down the salient features of Project 7
Precedence Network Analysis and Network
model and Analysis.
2. (a) Write down the steps used in calculating the 7
time cost optimization.
- (b) Define clearly with the help of some graphs 7
or figures regarding direct cost and indirect
cost of construction project.
3. (a) Write down in detail on the short comings 7
of bar charts and remedial measures.

- (b) Write down regarding development of network techniques which are used in construction projects with examples. 7
4. (a) (i) Define Work Break Down Structure (WBS). 7
(ii) Write down the levels of Work Breakdown Structure (WBS). 7
(b) Write down the method of planning and programming in construction project management. Explaining from start to finish of construction processes involved. 7
5. (a) Write down the full form of the following terms and their uses : 7
(i) IF (ii) EFT
(iii) LFT (iv) TF
(v) PN (vi) CPM
(vii) PERT
(b) Write down regarding the milestone charts in details and how is it converted into network form. Explain clearly. 7
6. (a) Write in details time-cost trade - off methodology. Explain clearly Resource Levelling. 7
(b) Write in details the Importance of planning, scheduling and controlling of construction projects. 7