

00525

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

Term-End Examination

June, 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) Define Critical Path Method (CPM) model with a Network. 7
- (b) Define PERT Network and write down the difference between the CPM and PERT networks. 7
2. (a) Define clearly Total Float, Free Float, Interference Float and the formula connecting them. 7
- (b) Define clearly EST, EFT, LST and LFT with example by drawing a network. 7
3. (a) What is meant by event time ? Define clearly the earliest event time and latest event time and show their relationship with a formula. 7
- (b) What are the optimistic, pessimistic and most likely time estimates. 7

4. (a) Write down the steps used for calculations of time cost optimization. 7
- (b) What is meant by slack ? Define clearly variance and standard deviation. 7
5. (a) What is meant by direct cost and indirect cost of a construction project ? 7
- (b) What is meant by resource allocation ? Write down clearly in details. 7
6. (a) What is meant by Project Time Control ? Describe in details with some examples. 7
- (b) Define clearly the slope of direct cost curve in details with some examples. 7
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