

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

Term-End Examination

December, 2011

ET-524(B) : CONSTRUCTION MANAGEMENT-I

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions. All question carry equal marks.

1. (a) What do you understand by SITE Drainage ? Explain the term storm runoff. What are the factors affecting storm runoff ?
(b) What are the far types of subsurface drainage ? Explain each in short. 6+8=14
2. In a raft construction of a building foundation the various activities involved are as given below. Draw CPM network for the same. 14

<u>Code</u>	<u>Activity</u>	<u>Duration (Days)</u>
A	Excavation	4
B	Conc. Mixer Installation	1
C	Blinding base	2
D	Steel Fixing fabrication	5
E	Transportation of rebar steel	1
F	Formwork and Rebar fixing	3
G	Raft concreting	2

3. (a) What do you understand by Tender documents ? Explain briefly the contents of Tender documents.
(b) Give essential features of a construction contract. $7+7=14$
4. How will you organise the following at a project site ? Explain $4 \times 3\frac{1}{2}=14$
(a) Safety and security of man and material.
(b) Storage and movement of material and equipment.
(c) Productive employment of Labour.
(d) Training of workers.
5. Explain commonly used budget monitoring parameters with the help of neat diagram and charts. Discuss the steps involved in Budget cost Analysis. $7+7=14$
6. What are the eight Principles of measurement ? Explain any four of them briefly. $2+12=14$
7. Write short notes on the following : $4 \times 3\frac{1}{2}=14$
(a) Structural Drawings
(b) Fundamentals of illumination
(c) Safety in working with Earth moving equipment
(d) Productivity Performance Index
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