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

**Term-End Examination**

**June, 2011**

**ET-524(B) : CONSTRUCTION MANAGEMENT-I**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Question Number One is compulsory. Attempt any Four questions. Out of balance five questions.*

1. Draw the network showing Earliest Occurance Time(EOT) and Latest Occurance Time (LOT) for all the events and give critical path and duration of a project having the following set of activities.

<u>Activity</u>	<u>Predecessors</u>	<u>Duration</u>	<b>6+6+6+4=22</b>
A	—	5	
B	—	1	
C	—	7	
D	A, B	2	
E	C, D	4	
F	C, D	6	
G	E, F	1	
H	G	4	

2. Differentiate between the following : **3x4=12**
- Arbitration and Litigation
  - Lump Sum contract and Cost Plus Contract
  - Cost Variance and Schedule Variance
  - Grading and levelling

3. Make symbols of the following : 8x1½=12
- (a) Top Hung Window
  - (b) Bath Tub
  - (c) Bell Push
  - (d) Exhaust Fan
  - (e) Telephone
  - (f) Folding Door Side Hung
  - (g) Rain water outlet
  - (h) Pump
4. What do you understand by Project Control Methodology ? Explain the following. 4+2x4=12
- (a) Time progress Control
  - (b) Resource Mobilisation Control
  - (c) Resource Productivity Control
  - (d) Direct Cost Control
5. What are the factors affecting the selection of most appropriate method of demolition of existing structures ? Explain the safety measures you will take during demolition. 6+6=12
6. Write short notes on the following : 4x3=12
- (a) Earliest and Latest start time
  - (b) Cost time trade off
  - (c) Productivity and Quality at Construction Site
  - (d) Study and Analysis of Contour maps with reference to project site
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