

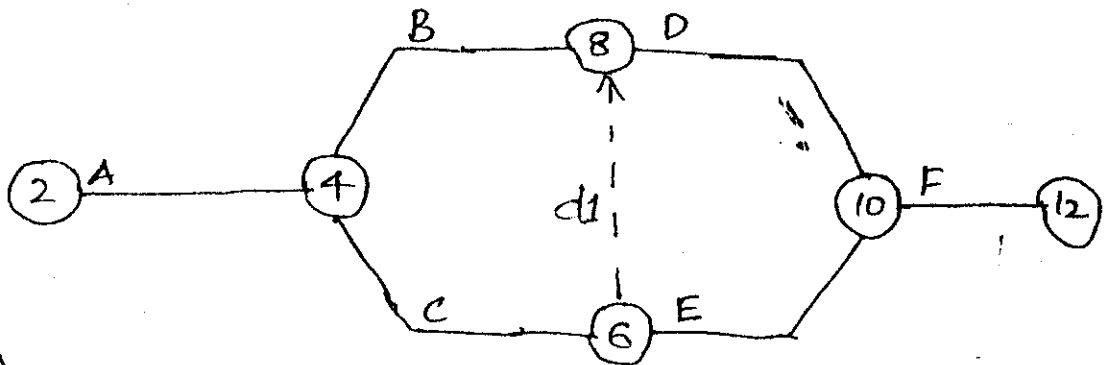
B. Tech Degree VII Semester Examination, November 2006

CE 703 (A) CONSTRUCTION MANAGEMENT
(2002 Admissions Onwards)

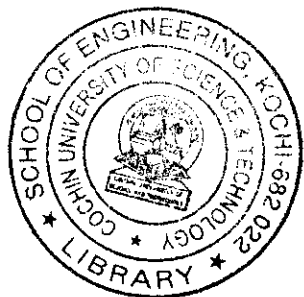
Time : 3 Hours

Maximum Marks : 100

- I. (a) Explain different organization structures. (7)
 (b) Prepare the organization chart for a road construction firm undertaking multicore projects. Explain the principles incorporated. (13)
- OR**
- II. (a) Explain "Delegation of authority". (5)
 (b) How will you delegate the powers, if you are the construction manager for a firm engaged in construction of multistoried residential apartments? (15)
- III. Write short notes on :
 (i) Gantt charts
 (ii) Columnar charts
 (iii) Advantages of CPM
 (iv) Network logic (4 x 5 = 20)
- OR**
- IV. (a) What is a least cost schedule? (4)
 (b) How do direct costs vary with time? (8)
 (c) How do overhead costs vary with time? (8)
- V Explain (i) Schedule compression
 (ii) Simple compression
 (iii) Complex compression
 (iv) Critical path and parallel critical path
 (v) Float and slack. (5 x 4 = 20)
- OR**
- VI. Crash the network schedule using simple compression and find the optimum time and least cost.



(Turn Over)



ACTIVITY	DURATION		COST (RS.)	
	Normal	Crash	Normal	Crash
A	6	4	6000	7800
B	10	7	5000	8750
C	12	8	6000	9000
D	8	4	8000	9400
E	6	3	6000	7950
F	4	2	8000	8500

Overhead cost = Rs.1000/day

(20)

- VII. (a) What are the objectives of material management?
 (b) What are the advantages of material management concept?
 (c) Explain transportation model.
 (d) Explain the methods of sourcing the material requirements. (4 x 5 = 20)
- OR**
- VIII. (a) What is the need of inventory?
 (b) Explain the systems of inventory control
 (c) Explain EOQ
 (d) What is ABC analysis?
 (e) Explain Re-order point. (5 x 4 = 20)
- IX. (a) Distinguish between wheel tractor and crawler tractor.
 (b) Explain different types of scrapers
 (c) Explain different types of draglines
 (d) What are the factors to be considered while selecting a front shovel? (4 x 5 = 20)
- OR**
- X. (a) What are the essential parts of a belt conveyer system?
 (b) What are the major types of cranes?
 (c) List the different excavating equipments.
 (d) Explain different types of trending machines
 (e) List different blasting equipments. (5 x 4 = 20)
