

**B.Tech. Degree VIII Semester Examination, May 2006**

**CE 801 CONSTRUCTION MANAGEMENT II**

(Prior to 2002 Admissions)

Time: 3 Hours

Maximum Marks: 100

(Draw neat sketches wherever required)

- I A state highway presently used as two lane is to be widened to make it four lanes. The length of the road to be widened is 25Kms. The extra width works out to be 7 metres. The stretch of the road is in filling (average filling of earth is 1.5M). The road specification is: sub base 1.5m earth filling, 15cm soling; 20cm roller compacted concrete; 3 cm bituminous concrete. Average lead of material is 10KM. The work is to be completed in 3 months. Work out the construction equipment/machineries required. Substantiate your answer with calculation (approximate) and the capabilities of the machineries/equipments. (20)

OR

- II a) Explain the main characteristics of the following:  
 (i) belt conveyor system (10)  
 (ii) tractors (10)  
 b) Explain the main considerations for replacement of construction equipment. (10)

- III a) Explain the significances of material management in construction industry. State how material management can be made effective. (10)  
 b) What do you understand by selective control of inventory? Explain the advantages and significances of ABC analysis. (10)

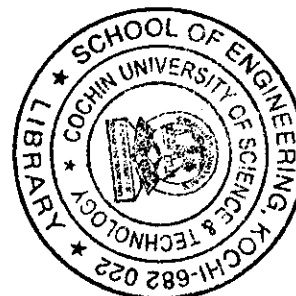
OR

- IV a) Find the EOQ, maximum and minimum inventory from the data given below:  
 Average monthly requirement : 4000 units  
 Inventory carrying cost : 12% of the unit value/year  
 Cost of placing order : Rs. 300/- per order  
 Cost per unit : Rs. 15/-  
 Also find the total cost purchase per year safety stock may be taken as Rs.50/- of EOQ.  
 b) Find the initial feasible solution by Vogets approximation method and compare it with N.W. corner method for the transportation problem given below:

Source	Destination				Supply
	P	Q	R	S	
A	4	3	2	1	15
B	2	3	2	4	25
C	4	6	3	2	35
D	5	4	3	1	25
Demand	30	25	25	20	100

(10)

(Turn Over)



- V a) Write a brief essay on the evolution of corporate management. (10)  
 b) What do you understand by ratio analysis? State the main types of ratio analysis and their significances. (10)
- OR**
- VI a) Write a brief essay on working capital, its formation management and significances. (10)  
 b) Write *short notes* on the following: (10)  
     (i) management of receivables  
     (ii) budgetary controls
- VII a) Explain the procedure of preparing a Balance Sheet. Prepare a format for balance sheet. (6)  
 b) Explain the significances the balance sheet from the view of the main stake holder. (8)  
 c) What do you understand by adjustments? How adjustments are carried out in profit and loss accounts? (6)
- OR**
- VIII Write *short notes* on the following: (20)  
     (i) principles of accounting  
     (ii) bank transactions  
     (iii) bank balance sheet  
     (iv) trial balance  
     (v) disclosure principle
- IX A construction firm having branches in five different sectors of specialization wants to coordinate the activities at sector and Head Quarter levels. Suggest the process and steps involved in the development of such M.I.S. (20)
- OR**
- X a) Write a brief essay on the office automation system for a construction organisation. (10)  
 b) Write *short notes* on the following: (10)  
     (i) information handling  
     (ii) selection of files  
     (iii) Decision making  
     (iv) File design.

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