B. Tech Degree VI Semester Examination, April 2008

CE 604 (B) CONSTRUCTION EQUIPMENTS AND MATERIAL MANAGEMENT

(2002 Scheme)

Time: 3 Hours							•	Maximum Marks: 100	
						<i>QUAL</i> matches as r			
I.	(a)	State and explain the main engineering factors to be considered in the selection of earth moving equipments.							
	(b)	"Multiple functions make an earth moving equipment more versatile". With the example elucidate this statement.							
		OR							
II.		Write brief notes on the following highlighting the functions uses and operations of the following:							
		(i)	Cranes			(ii)		veyor system	
		(iii) (v)	Trucks Scrape	and was ers	gons	(iv)	Bull doz	ers	
III.		State the main operations and select the equipments required for such operations in the case of the following:							
		(i)	Tunne	lling		(ii)	Blasting		
					OR				
IV.		Write brief note			g :		<u>.</u>		
		(i)	Ownin			(ii)	Operatin		
		(iii) _ (v)		cement d it value o		(iv)	Mainten	ance of equipments	
V.	(a) (b)	State the objectives and functions of materials management. Write a brief essay on the purchase procedure for purchasing construction materials like cement and steel.							
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VI.		Write brief notes on the following:							
		(i)	FIFO & LIFO system			(ii)	Tender		
		(iii) (v)	Inspec Earnes	tion st money	· ′.	(iv)	Stock ve	erification	
VII.		Describe the ste disadvantages o				3C analysi	is. State the	e advantages and	
3-21Y1	(0)	White brief water	41	Callania	OR				
VIII.	(a)	Write brief notes on the following: (i) Transportation model and its applicability.							
	(b)	(i) VED & FSN analysis (ii) Transportation model and its applicability Write the objective functions and restraint function of the transportation model given be							
	(0)	Also find the likely feasible initial solutions by NW Corner method and Vogel's approximation method.							
		F				House		Quantity Available	
			W.	A	В	C	D	. 1#	
	•		X	3 2	2	5	2 4	15	
			Y Z	2	1 3	4 .	3	24 21	
			۷	4	3	7	,	<u></u>	
		Ouantity require	ed	13	12	16	19	60 (Total)	

Quantity required

60 (Total)