## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-VII • EXAMINATION – WINTER 2013

2	Subje	DE - SEMESTER-VII - EXAMINATION - WINTER 2013ect Code: 170601Date: 26-11-2013ect Name: Construction Management and Equipments: 10:30 TO 01:00Total Marks: 70	
	Instruc		
Q.1	(a) (b)	Write short note on scope of construction management. Define construction management and state objectives of construction management.	07 07
Q.2	(a) (b)	What is critical path? Distinguish between CPM and PERT. Mention the important points to be considered while drawing the CPM network. For the following data draw the network.JobImmediate predecessor aa-b-c-da, beb, c	07 07
	(b)	Define and explain the following terms. (i) Total float (ii) Independent float (iii) Free float.	07
Q.3	(a)	Explain the term depreciation and discuss any one method to determine depreciation.	07
	(b)	Find out sincing fund for accumulating `5/- lakhs in five years at the rate of interest of \$66.	07
Q.3	(a) (b)	OR Discuss sinking fund method of finding depreciation. A contractor takes a loan of `500000/- for purchase of construction equipment. If rate of interest is 9% and he wishes to repay the loan in 10 yearly installments, find out value of installment.	07 07
Q.4	(a) (b)	Write short note on "Draw bar pull" Define and explain (i) coefficient of traction (ii) Gradability. <b>OR</b>	07 07
Q.4	(a) (b)	Discuss safety measures for construction sites. Draw job lay out for the dam site.	07 07
Q.5	(a) (b)	Discuss various basic criteria for selection of construction equipment. How truck production is calculated? Explain step by step. <b>OR</b>	07 07
Q.5	(a) (b)	List out various pumps for lifting water and discuss centrifugal pumps. Write short note on "clam shell".	07 07

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