No.	of	Printed	<b>Pages</b>	:	2	
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ET-581(F)

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

## **Term-End Examination** June, 2011

## ET-581(F): MECHANICAL EQUIPMENT IN CONSTRUCTION

Time: 3 hours Maximum M			arks : 70				
Note		Answer <b>any seven</b> questions. All questions carry en marks. Use of calculators is allowed.	qual				
1.	(a)	What are the various costs considered in evaluating the economic life of an equipment?	5				
	(b)	Explain declining balance method to evaluate depreciation.	5				
2.		nat are the factors and job conditions considered selection of type and size of a power shovel?					
3.	of n	cribe the following equipments with the help eat sketches fork lift truck (b) truck crane	10				
4.		at are tipping wagons and where are they	10				

Explain working of sheep's foot roller with 5. (a) 5 a sketch. (b) How do you estimate the output of 5 vibratory roller? Describe various types of cable ways. How is the 6. **10**. capacity of a cable way determined? 7. Explain with sketches, the construction and 10 working of external vibrators. Give some applications. Explain the factors affecting the drilling pattern 8. 10 in surface work. 9. Sketch and explain 5+5 Butterfly valve (b) Hollow jet valve (a) 10. Write short notes on any four :- $2^{1/2}x4=10$ (a) Salvage value (b) Angle of swing of drag line (c) Whirler Crane Burden (d) (e) Padfoot roller (f) Backhoe (g) Flap gate.