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

Term-End Examination December, 2010

ET-581(F): MECHANICAL EQUIPMENT IN CONSTRUCTION

Time	: 3 ho	ours Maximum Marks	Maximum Marks: 70		
Note	(ii				
1.	(a) (b)	What are the components of cycle time of a machine? Explain with examples. How does draw bar pull differ from rim	5		
2.		pull? cribe the following equipments with neat ches:- Cam Shell bucket. Ripper.	10		
3.	Describe various types of cranes with sketches.				
4.	can	y are dumpers different from trucks? How you select a truck and number of trucks tired for particular job of earth work?	10		

J.		escalators. Discuss their merits and demerits.			
6.	Desc	cribe various aggregate cooling methods.	10		
7.	wor	With sketches explain the construction and working of internal vibrators. Give some areas of applications.			
8.	What are different types of drilling jumbos used in tunnel construction? Explain with sketches.				
9.	(a)	What are Sluice gates and how do they work?	. 5		
	(b)	How is sliding gate operated? Where do you use it?	5		
10.	Write short notes on any four:-		10		
	(a)	Book Value.			
	(b)	Tree Doters.			
	(c)	Mobile crane.			
	(d)	Idlers.			
	(e)	Tamping rollers.			
	(f)	Batchers.			
	(g)	Spill ways.			