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ET-523(B)

B.Tech. Civil (Construction Management)

01945

Term-End Examination December, 2010

ET-523 (B) : Operation and Maintenance of Construction Equipment

Time: 3 hours Maximum Marks: 70 Attempt any seven questions. Use of calculator is Note: allowed. standardize will the 5+5 1. you How (a) procurement system for acquiring construction equipment? What are the responsibilities of an (b) equipment manager? 2. What ways do you know by which (a) 5+5equipment can be financed? Describe them in brief. Why do breakdowns occur in construction (b) equipment? How will you handle breakdowns? Explain. When do you require raw, clean, and 3. (a) treated water on a construction project? Explain. Explain spare parts inventory? What are (b) the essentials of equipment management? What are the most commonly adopted 4. (a) maintenance routines? When is major remedial repair carried out 5+5 (b) on an equipment?

5.	(a)	What are the characteristics of a rotary 5+5 pump? What factors affect the performance of a pump?
	(b)	How are IC engines classified? How is the performance of an IC engine tested?
6.	(a)	What do you understand by turbo charging ? $5+5$ Why is turbocharging necessary ?
	(b)	What are the various lubricants used in a construction machine?
7.	(a)	List the various types of grout pumps. 5+5 Explain working of any one of them
	(b)	What are the advantages and dis-advantages of drop hammer?
8.	(a)	What are the Jetting piles and how are they $5+5$ driven?
	(b)	What information will you need to select a pump for a particular Job. ?
9.	(a)	What is a rig? Explain the crane mounted 5+5 rigs.
	(b)	What are the problems in planning for electric supply of a construction project?
10.	Write	e short notes on any five: $5x2=10$
	(a)	Depreciation
	(b)	Cash flow analysis
	(c)	Personnel training
	(d)	Computer Records
	(e)	Drainage pump
	(f)	Cooling system
	(g)	Types of lubricant
	(h)	Target out put.