Reg. No.



I SEMESTER M.TECH. (CONSTRUCTION ENGINEERING AND MANAGEMENT)

END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: CONSTRUCTION METHOD AND EQUIPMENT [CIE 5103] REVISED CREDIT SYSTEM (29/11/2016)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitably assumed

	List out the stages in the process of equipment selection and explain the methods	05
1A.	for computing owning and operating cost of an equipment.	Marks
1B.	Compare the suitability of adoption of pre-tensioned and post-tensioned concrete as	05
	various components of a high rise buildings. Justify your answer.	Marks
2.	Write explanatory notes on the following equipment with emphasis on its parts,	10
	operation and application.	
	(i) Back hoe (ii) Bull dozer (iii) Tower Crane (iv) Fork lift	Marks
3A.	Explain various classifications of compactors and its specific applications	10
		Marks
3B.	Explain the layout and operation of batch type of hot bitumen mix plant	05
		Marks
4A.	Discuss in detail on classification of framework	05
		Marks
4B.	Write a note with emphasis on its specific applications on Hydraulic dredgers	10
		Marks
5.	Compute the shuttering materials required with conventional shuttering for a slab	10
	shuttering of hall size 6m x 4.2m with peripheral beams 0.3m x 0.6m. The,	10
	thickness of the slab is 0.15m.	Mark

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