B.Tech. Degree VII Semester (Supplementary) Examination, July 2009

CE 705 (B) ADVANCED CONSTRUCTION TECHNIQUES AND FIELD QUALITY CONTROL

(2002 Scheme)

Time: 3 Hours	Maximum Marks:	100
I	Light constructions reduce the overall weight of the superstructure and sub-structure and thereby affect economy, speed and ease of construction. Briefly explain the significances of light construction citing the various techniques.	(20)
	OR '	
II .	Briefly explain the following: i) Prestressing concrete	
	ii) Transportation and pumping of concrete.	(20)
III	Write a brief essay on the tunneling operation through medium hard soil for a length of 1000 meters.	(20)
	OR	(20)
IV	Write brief essays on the material, applications and advantages of the following: i) Geosynthetics	
	ii) Ferro cement	(20)
V	Prepare checklists of inspection (prior to, during and after inspection) points in the case of following works:	
	i) Centering and shuttering ii) Blasting	(20)
171	OR	
VI	Write brief notes on the following: i) Preparations for inspection ii) Field Quality Control	
,	iii) Field records with respect to QCiv) Quality Assurance plans.	(20)
VII	State the main tests to be carried out on the road aggregates with the purposes of each test. Explain any two tests on road aggregate. OR	(20)
VIII	Write brief essays on the following:	
	i) MOST standards	
	ii) CPWD standards	(20)
IX	Write an essay on the procedure for obtaining ISO 9001 certification by a medium sized construction company having a turn over of Rs.100 crores per year. OR	(20)
X	Write short notes on the following: i) Quality manual	
	ii) Design control	
	iii) Standards for personnel training	
	iv) Dealing non-conformities.	(20)
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