Seat No.:	Enrolment No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - WINTER 2013

Subj	ect (	Code: 160601 Date: 27-11-2013	
Subj	ect I	Name: Advanced Construction Technology	
Tim	e: <b>02</b>	2:30 pm to 05:00 pm Total Marks: 70	
Instru	1. 2.		
Q.1	(a) (b)	Describe the factors affecting selection of pile. Write a short note on (1) Cassion sickness (2) Formwork for RCC wall	0' 0'
Q.2	(a) (b)	Describe the prevention of leakage in coffer dam. Clearly differentiate end bearing pile and friction pile.  OR	0' 0'
	<b>(b)</b>	Describe various types of cofferdams stating the conditions under which they are suitable.	0'
Q.3	(a) (b)	Write a short note on (1) Pneumatic cassion (2) Sinking of cassion Explain design features of coffer dams.  OR	0' 0'
Q.3	(a) (b)	Explain the method of determining the efficiency of pile group.  Write a short note on (1) Under reamed pile (2) Timber pile	0' 0'
Q.4	(a) (b)	Briefly describe the methods of controlling ground water in excavation. Briefly describe the methods by which ground water flow in excavation can be reduced.	0' 0'
		OR	
Q.4	(a)	Write a short note on (1) Requirement of form work (2) Economy in from work	0
	<b>(b)</b>	Write a short note on (1) Timber formwork (2) Steel formwork	0'
Q.5	(a) (b)	Describe the requirements of earthquake resistant construction.  Explain selection of material and mortar for earthquake prone structure.  OR	0' 0'
Q.5	(a)	Write short note on (1) Pre-stressed structure (2) Tall structure	0′
-	(b)		0′

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