Subject Code:X20602

## GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-II EXAMINATION – SUMMER 2016

Date:02/06/2016

Subject Name: ADVANCED CONSTRUCTION				
Time:10:30 AM to 01:00 PM Instructions:  Total Marks:			70	
ins	1. 2. 3.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	How the pile foundations differ from open foundations? Describe by drawing Sketch pile-shoe and pile caps.	07	
	<b>(b)</b>	What is necessity of cofferdams? Explain by drawing sketch rock filled cofferdams.	0'	
Q.2	(a)	What precautions to be taken before demolishing the existing old structures describe stepwise.	0′	
	<b>(b)</b>	Explain by drawing sketch pre cast concrete piles and wooden piles  OR	0'	
	<b>(b)</b>	Explain by drawing sketch well point system for controlling ground water	0'	
<b>Q</b> .3	(a) (b)	What is necessity of caissons? Describe caisson well foundations with sketch. Enlist the types of pile driving hammers, explain in detail any one.  OR	0' 0'	
Q.3	(a)	How the earthquake resistant buildings can be constructed? Explain corner Reinforcements	0'	
	<b>(b)</b>	Draw the sketch of form works for R.C.C columns and beams.	0'	
Q.4	(a)	Give classification of construction equipments –explain working of tower crane.	0'	
	<b>(b)</b>	What is special equipments? Draw the sketch of power shovel.  OR	0'	
Q.4	(a)	Where the drilling operations are required to be carried out? Describe wagon Drills.	0'	
	<b>(b)</b>	Describe by drawing sketch wheel type trencher machine.	0'	
Q.5	(a) (b)	Explain by showing table economic height of cofferdams.  Describe caisson sickness	0' 0'	
0.5	(c)	OR What is difference between prestressed concrete and conventional concrete	0′	
Q.5	(a) (b)	What is difference between prestressed concrete and conventional concrete.  Describe prestressed structures  Explain by drawing sketch pile load test	0'	
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