Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

P.D.D.C. Sem- II Remedial Examination Nov / Dec. 2010

Subject code: X20602 **Subject Name: Construction**

Date: 30 / 11/ 2010 **Time: 10.30 am – 01.00 pm**

Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain by drawing sketch of end bearing pile , friction pile, and anchor pile.	**07**
	(b)	Give engineering news formula for pile driving.	**07**
Q.2	**(a)**	Explain by drawing sketch "pneumatic caisson."	**07**
	(b)	Describe with sketch construction procedure of pedestal pile	**07**
		OR	
	(b)	Explain by drawing sketch pre cast concrete piles	**07**
Q.3	**(a)**	Describe guidelines for construction of earthquake resistant building.	**07**
	(b)	Draw sketch of dragline excavator and explain its working.	**07**
		OR	
Q.3	**(a)**	What is purpose of construction of cofferdam? Explain rock filled cofferdam.	**07**
	(b)	Explain timber form work draw sketch.	**07**
Q.4	**(a)**	How sub soil water is affecting on foundation? Explain one method of removing sub soil water.	**07**
	(b)	Explain by drawing sketch cellular cofferdam.	**07**
		OR	
Q.4	**(a)**	What is the use of pile shoe, and pile cap? .draw sketch of pile shoe and pile cap.	**07**
	(b)	Explain the factors affecting selection of equipments	**07**
Q.5	**(a)**	What precautions to be taken while demolishing old structure ?	**07**
	(b)	Explain by drawing sketch " derrick crane "	**07**
		OR	
Q.5	**(a)**	Distinguish "sheep foot roller" and "plain roller", also explain sheep foot roller	**07**
	(b)	Draw the neat sketch of form work for column.	**07**

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