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GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC SEM-II Examination May 2012

Subject code: X20602 Subject Name: Construction

Date: 24/05/2012	Time: 10.30 am – 01.00 pm
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Total Marks: 70

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In	stri	icti	ons:

1.	Attem	pt all	questions.	
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- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What are the advantages and disadvantages of cast in situ concrete piles?	07
	(b)	What are the causes of failure of piles?	07
Q.2	(a)	Describe the method of constructing a single well cofferdam with neat sketches.	07
	(b)	What is caisson sickness? What are the precautions to be taken to avoid it?	07
		OR	
	(b)	Classify different types of piles and write a short note on under reamed piles	07
Ω	(a)	Describe the freezing process with next sketches	07
Q.3	(a) (b)	Describe the freezing process with neat sketches. What are the requirements of good formwork?	07
	(D)	OR	U/
Q.3	(a)	Explain the properties required for better earthquake resistant	07
Q.S	(a)	construction	U/
	(b)	Explain repair, restoration and retrofitting.	07
	(D)	Explain repair, restoration and retrofitting.	07
Q.4	(a)	What is meant by demolition? What are the factors affecting the	07
	- ·	evaluation of demolition methods?	
	(b)	What are the factors affecting the selection of a particular type of cofferdam.	07
		OR	
Q.4	(a)	Enlist types of caissons and explain Box caisson with neat sketch.	07
	(b)	Enlist different methods of Dewatering and Explain Electro osmosis process with neat sketch.	07
Q.5	(a)	Explain the factors affecting selection of Construction equipments.	07
	(b)	Write a short note on (1)Power shovel (2)Drifters	07
		OR	
Q.5	(a)	What is centering? Explain trestle centering With neat sketches.	07
	(b)	Enlist and explain general principles for earthquake resistant buildings.	07