GUJARAT TECHNOLOGICAL UNIVERSITY PDDC- SEMESTER II- • EXAMINATION -WINTER- 2016

Subject Code: X20602Date:03/01Subject Name: ConstructionTime:02:30 PM to 5:00 PMTime:02:30 PM to 5:00 PMTotal Marks: 70Instructions:Total Marks: 70			
	1. 2. 3.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain the situations in which the pile foundations are preferred.	07
	(b)	Write a notes on : (1) Sand Pile (2) Concrete sheet pile	07
Q.2	(a)	State the factor that needs to be considered for choosing any particular type of coffer dam.	07
	(b)	Write a short note on Economic height of cofferdam.	07
Q.3	(a)	Explain the design features of caissons.	07
	(b)	What is a box caisson? Explain the method of installation of a box caisson.	07
Q.4	(a)	Why steel formwork is preferred over timber formwork. Draw the formwork of RCC beam and RCC column.	07
	(b)	Write a note on slip formwork.	07
Q.5	(b) (a) (b)	Enumerate various methods of dewatering foundation excavations. Explain any two methods in brief. Give advantages and disadvantages of prestressed concrete.	07 07 07
Q.6	(a)	Explain in detail – Demolition of Structures.	07
	(b)	Explain the general principles for earthquake resistant buildings and their design aspects with neat sketch.	07
Q.7	(a) (b)	What do you understand by economic life of construction equipment? What are the factors to be considered while fixing it? Write a short note on earth excavating equipment.	07 07
