Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER-VII EXAMINATION - SUMMER 2016

Subject Code:X70602 Subject Name: Docks, Harbor and Airport Engineering			Date:12/05/2016	
7	_	:02:30 PM to 05:00 PM Total Mar	ks:	
	-	1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		
Q.1	(a) (b)	Describe the advantages and disadvantages of water transport. What is the difference between ports and harbor? Draw the sketch of artificial harbor showing all components.	07 al 07	
Q.2	(a) (b)	Define: 1) Free port. 2) Marine terminal. 3) Offshore moorings. 4) Jetty. What is necessity of dredging? Explain mechanical and hydraulic dredging. OR	07 07	
	(b)	Describe wet docks and dry docks. Draw the sketch of gravity dry dock.	07	
Q.3	(a) (b)	Write short note on Wind rose diagram. What is importance of airport marking and runway marking? OR	07 07	
Q.3	(a) (b)	What are the factors to be considered in airport planning? Discuss them. Explain: 1) Pay load and zero fuel weight. 2) Subsonic aircraft and supersoni air craft.	07 c 07	
Q.4	(a) (b)	Discuss the importance of grading and drainage in airport. Discuss the advantages and disadvantages of aviation. OR	07 07	
Q.4	(a) (b)	Give classification of break water and explain any one. What are the different types of locks? Discuss any one in detail.	07 07	
Q.5	(a) (b)	Enlist types of Buoys and explain any one. Write short note on Light House. OR	07 07	
Q.5	(a) (b)	Explain procedure for constructing break water. Write short note on harbor maintenance.	07 07	
