## GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VII • EXAMINATION – SUMMER 2013

Subject Code: X70602Date: 14-05-2013Subject Name: Dock, Harbour and Airport Engg.Total Marks: 70Time: 10.30 pm - 01.00 pmTotal Marks: 70			
Instructions:			
01	1. 2. 3. (a)	i i i i i i i i i i i i i i i i i i i	07
Q.1	(a)	Distinguish between Natural and Artificial harbour with sketch.	07
	<b>(b)</b>	What are the requirements of good harbour?	07
Q.2	<b>(a)</b>	Explain – Littoral drift, Spring tide, Neap tide, Fetch.	07
	<b>(b)</b>	What are dolphins? Explain their types.	07
		OR	
	<b>(b)</b>	Briefly explain the methods of mound construction.	07
Q.3	<b>(a)</b>	Enlist the types of Dredging devices. Explain any one with sketch.	07
	<b>(b</b> )	What is mooring? Explain the accessories of Floating and fixed types moorings. OR	07
Q.3	(a)	What are the factors affecting Airport Capacity?	07
	<b>(b</b> )	What are the characteristics of conventional air craft?	07
Q.4	<b>(a)</b>	Explain the methods adopted for protection from jet blast with sketch.	07
	<b>(b)</b>	What are the objectives of surface drainage at an airport?	07
		OR	
Q.4	<b>(a)</b>	How is the provision of parking of vehicles made at the airport?	07
	<b>(b)</b>	Write a short note on "Balanced Field Concept".	07
Q.5	<b>(a)</b>	Explain the types of Runway pattern with neat sketch.	07
	(b)	Differentiate between (i) Runway and Taxiway (ii) Loading apron and Holding bays <b>OR</b>	07
Q.5	(a)	Explain the procedure for constructing Wind rose diagram.	07
	<b>(b)</b>	Write a short note on "Visual aids".	07