Date:12/05/2015

Seat No.:	
No	

Subject Code:X70602

## GUJARAT TECHNOLOGICAL UNIVERSITY PDDC – SEMESTER VII–• EXAMINATION – SUMMER-15

T	•	ct Name: DOCKS, HARBOURS AND AIRPORTS  02:30 pm - 05:00 pm  tions:  1. Attempt all questions.	0
		<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a)	Give the advantages and disadvantages of air transport. What is the difference Between balloon and aero plane?	07
	<b>(b)</b>	Explain by drawing sketch width, height and length of aircrafts.	07
Q.2	(a) (b)	What are the factors affecting site selection of airports  Explain wind coverage and crosswind component. draw the sketch of wind-rose  Diagram type I (direction and duration)  OR	07 07
	<b>(b)</b>	Draw the sketch of any artificial harbors showing all components	07
Q.3	(a)	What are the different agencies involved in administration of sea ports at National level?	07
	<b>(b)</b>	What are the functions of National Airport Authority(NAA) and International Civil Aviation Organization (ICAO)  OR	07
Q.3		The required length of runway under standard atmospheric conditions is 1950m. The airport site is 1100.0m above mean sea level, the airport reference temperature is 16°c, the max gradient is 0.45% determine required design Length of runway.	14
Q.4	(a) (b)	Explain by drawing sketch mound type breakwater and vertical wall breakwater What is the use of dry docks? Draw the sketch of graving dry dock.	07 07
		OR	
Q.4	(a)	How the water waves are formed? Explain by drawing sketch deep waves and Shallow waves.	07
	<b>(b)</b>	What is necessity of dredging in marine works? Draw the sketch of bucket Ladder dredger	07
Q.5	(a) (b)	What is the use of fenders on docking platforms? Describe wooden fenders Give the list of major ports in India,	07 07
		OR	
Q.5	(a)	Define:- (i) Offshore mooring(ii) tides (iii) jetties and piers (iv) transit shed (v) light house (vi) port (vii) cargo ship	07
	<b>(b)</b>	What is the necessity of lock gates? Draw the sketch of lock gate.	07

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