## **GUJARAT TECHNOLOGICAL UNIVERSITY** PDDC SEMESTER VII– EXAMINATION – SUMMER 2017

Subject Code: X70602 Subject Name: Dock, Harbour and Airport Engineering			Date: 01/05/2017	
Time: 02.30PM to 05.00PM Total Mark Instructions:			Fotal Marks: 7	0
Ins	1. 2.	ons: . Attempt all questions. . Make suitable assumptions wherever necessary. . Figures to the right indicate full marks.		
Q.1	(a) (b)	State the major objectives of national association of port authorities. Define anchorage area, offshore moorings, draft, transit shed, plimsoll mark, net tonnage and bulkhead line.		07 07
Q.2	(a) (b)	Explain briefly the classification of harbour based on utility. What is wind rose diagram? What are its uses? <b>OR</b>		07 07
	<b>(b)</b>	Explain briefly the guiding principles of port planning for efficient operation.		07
Q.3	(a) (b)	Differentiate between mound type and vertical wall type breakwaters. What are groynes? State the purposes of it. <b>OR</b>		07 07
Q.3	(a) (b)	Why fenders are provided on docking platform? Explain briefly wooden and rubbers fender. State the purposes of navigational aids. Explain briefly beacon lights.		07 07
Q.4	(a) (b)	State briefly the objectives of International Civil Aviation Organization. Explain briefly the factors affecting runway orientation?		07 07
Q.4	(a) (b)			07 07
Q.5	(a) (b)			07 07
Q.5	(a) (b)	Write a short note on vehicular parking and circulation network at the airport?		07 07

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