Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY PDDC-SEMESTER VII-• EXAMINATION – SUMMER - 2016

Date:25/11/2016

Subject Code: X70602

	•	t Name: Dock, Harbour and Airpot Engineering	
	me:1 tructio	0:30 AM to 1:00 PM Total Marks:	<b>70</b>
ms	1. 2.	Attempt all questions.	
Q.1	(a) (b)	Explain advantages and limitations of air transportation.  What are the purposes of airport terminal building? Draw layout of airport Terminal building	07 07
Q.2	(a) (b)	Write short note on (i) Clear Zone (ii) Approach Zone. List out components of aeroplane. Explain any three components.  OR	07 07
	(b)	A taxiway is to be designed for operating Boeing 707-320 Which has the following characteristics. Determine the turning radius of the taxiway. Wheel base = 17.70 m  Thread of main loading gear= 6.62 m  Turning speed = 40 kph  Coefficient of friction between tire and pavement surface =0.13.	07
Q.3	(a) (b)	Explain Instrument landing system (ILS) with sketch. List out classification of breakwater. Explain any one with sketch.  OR	07 07
Q.3	(a) (b)	Explain silting, erosion and littoral drift. Enlist different types of locks. Explain any one.	07 07
Q.4	(a) (b)	Explain Transit shed with neat sketch. Enlist the constituent of harbor. Draw neat sketch of a typical artificial harbour.  OR	07 07
Q.4	(a) (b)	What are dry docks? Draw sketch of dry gravity dry dock. Explain various types of dredging.	07 07
Q.5	(a) (b)	Discuss buoys, beacons and light house. Write short note on Wharf.	07 07
Q.5	(a) (b)	OR Give classification of airports as per ICAO. Explain shallow waves and deep waves with sketch.	07 07

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