Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VII EXAMINATION - WINTER 2015

Subject Code: X70602 Date: 11/12/2015

Subject Name: Dock, Harbour and Airport Eng	Subi	ect N	Vame:	Dock.	Harbour	and a	Airport	Eng
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Time: 10:30pm to 1:00pm Total Marks: 70

Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	•					
Q.2	(a) (b)	What is Harbor? Give requirements of good harbor. Explain water waves and current phenomena OR	07 07				
	(b)	Explain the ship characteristics affecting harbor design	07				
Q.3	(a)	Differentiate between jetty and wharf. Stat the condition under which you will prefer their construction.	07				
	(b)	Classify various types of lock gates and explain working of lock gate. OR	07				
Q.3	(a)	What are navigational aids? Why are they necessary in Harbours?	07				
	(b)	Draw a neat sketch of an aeroplane and explain its components.	07				
Q.4	(a)	Explain (i) Minimum turning radius (ii) Minimum circling radius (iii) Jet Blast (iv) speed of aircraft.	07				
	(b)	Explain the data required to be collected for site selection of airport. OR	07				
Q.4	(a)	Write short note on Wind rose diagram	07				
	(b)	Explain the various factors which affect the layout of taxiway	07				
Q.5	(a)	Explain airport lighting	07				
	(b)	What is terminal area? What facilities are provided in this area?	07				
		OR					
Q.5	(a)	Explain the method for protection from jet blast.	07				
	(b)	Explain the necessity of airport drainage. What are its special characteristics?	07				
