Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER - VIII.EXAMINATION - WINTER 2016**

S	ubjec	ct Code: 180602 Date: 20/10/2016	
S	ubjec	et Name: Dock Harbour & Airport Engineering	
$\mathbf{T}$	ime:	02:30 PM to 05:00 PM Total Marks: 70	
Iı	nstruct		
	-	1. Attempt all questions.	
	_	2. Make suitable assumptions wherever necessary.	
2.1		3. Figures to the right indicate full marks.	07
Q.1	(a)	What is the significance of water transportation compare to other modes of	07
	<b>(b)</b>	transportation? Explain in detail.  Explain the major components of Harbour with neat diagram.	07
	(D)	Explain the major components of fraitbour with heat diagram.	U/
<b>Q.2</b>	(a)	Define the following term.	07
		1) Wave breaking 2)Wave reflection 3) Tidal range.	
	<b>(b)</b>	Describe the facilities required for a major port.	07
	<b>(1.)</b>	OR	0=
	<b>(b)</b>	Explain silting ,erosion and littoral drift.	07
Q.3	(a)	What are the different types of break water?	07
	<b>(b)</b>	Explain the terms: I) Wharves & Fenders II) Quays & Jetties.	07
		OR	
Q.3	<b>(a)</b>	Differentiate between dry dock and wet dock.	07
	<b>(b)</b>	Discuss in detail advantage and disadvantage of Air transportation.	07
Q.4	(a)	Describe aeroplane components part with neat sketch.	07
	<b>(b)</b>	What are the elements to be considered in the geometric design of runway?	07
		OR	
<b>Q.4</b>	(a)	Write a short note on International Civil Aviation Organisation- ICAO.	07
	<b>(b)</b>	What is the function of taxiway in airports? Draw cross section of taxiway	07
		showing all components.	
Q.5	(a)	What are the facilities required at terminal building?	07
-	<b>(b)</b>	Explain the necessity of airport drainage. What are its special characteristics?	07
		OR	
Q.5	(a)	Describe various components of air traffic control network.	07
	(b)	Explain the terms: I) Fuel storage area II) Holding aprop	07

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