

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VIII (New) EXAMINATION - WINTER 2019

Subject Code: 2180602 Date: 25/11/2019

Subject Name: Harbour & Airport Engineering

Time: 02:30 PM TO 05:00 PM 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)	Define the terms: (i) Turning Basin (ii) Draft (iii) Break water Write a note on site selection for harbour	03 04
	(c)	Explain in detail advantages and disadvantages of air	07
Q.2	(a)	transport. What are the important wind characteristics	03
	(b)	Draw the neat sketches for different aircraft parking system	04
	(c)	What facilities are necessary for a major port? Describe each in detail.	07
		OR	
	(c)	Describe various components of air traffic control network.	07
Q.3	(a)	Write a note on Instrument Landing System	03
	(b)	Explain Wave breaking & Wave reflection with neat sketches	04
	(c)	Give the outline as per ICAO master planning process for	07
		planning of airports.	
Q.3	(a)	OR Explain littoral drift	03
Ų.S	(a) (b)	Write a note on Airport Capacity	03
	(c)	What is function of taxiway in airports? Draw cross sections	07
	(0)	of taxiway showing all components.	0,
Q.4	(a)	Explain LORAN and RADAR	03
	(b)	What are functions of director general of civil aviation	04
	(c)	Differentiate between dry dock and wet dock	07
		OR	
Q.4	(a)	Draw typical Layout of Airport Terminal Building	03
	(b)	Write a note on sea walls with neat sketch	04
	(c)	Discuss buoys, beacons and light house	07
Q.5	(a)	Write a note on site selection for Hangers	03
	(b)	Discuss in brief: Dolphins	04
	(c)	Explain briefly requirement of an airport drainage system.	07
~ -		OR	0.5
Q.5	(a)	Draw sketch showing parts of Aeroplane.	03
	(b)	Compare Mound type and Vertical wall breakwater	04
	(c)	Why fenders are provided on docking platform? Draw the sketch of wooden and rubber fenders	07
		SKEICH OF WOODEN AND HIDDELTENDERS	
