

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2017****Subject Code: 2160107****Date: 10/05/2017****Subject Name: Airport and Operations Management****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	Short Questions	14
	1 What purposes do general aviation airports serve?	
	2 What are advisory circulars for airport management?	
	3 What types of formal training and education programs exist for current and future airport managers?	
	4 What was the difference between the Civil Aeronautics Board and the Civil Aeronautics Administration?	
	5 What was the purpose of the Federal Airport Act of 1946?	
	6 What are some of the biggest problems faced by the airport system during the early part of the twenty-first century?	
	7 What is VASI and PAPI for runway?	
	8 What are some of the advantages and disadvantages of each type of airport terminal geometry?	
	9 What is the mobile lounge concept?	
	10 What are the most common methods for snow and ice removal from airfields?	
	11 What are the differences between rigid pavements and flexible pavements?	
	12 What are the factors affecting take off and landing distances?	
	13 What are the differences between operating and nonoperating revenues?	
	14 What are the primary objectives of the airport master plan?	
Q.2	(a) Differentiate between Airfield and Airport.	03
	(b) Write short notes on ICAO and IAAI.	04
	(c) Explain how passengers' cargo baggage are handled by airline staff?	07
	OR	
	(c) What are the aircraft baggage handling methods?	07
Q.3	(a) Differentiate between Taxiway and Terminal area?	03
	(b) What is pay load and zero fuel weight?	04
	(c) Explain airport terminal layout.	07
	OR	
Q.3	(a) What is landing area and landing strip?	03
	(b) What is Topographical survey and Traffic survey?	04
	(c) Draw layout of Airside area of an International airport in brief and mention necessary area.	07

Q.4	(a) What is height zoning and land use zoning?	03
	(b) Explain the importance of airport planning.	04
	(c) Discuss duties and responsibilities of Airports Authority of India in our country.	07
OR		
Q.4	(a) Write short notes on control towers.	03
	(b) Draw different types of runway patterns and explain briefly.	04
	(c) Draw and explain runway and taxiway markings and lightings.	07
Q.5	(a) What are the factors which affect the change in direction of runway?	03
	(b) Differentiate between airway aids and terminal aids.	04
	(c) What technologies are used to perform the screening of checked luggage at airports?	07
OR		
Q.5	(a) What is piggybacking?	03
	(b) What is the Trusted Traveler Program?	04
	(c) How might airports better prepare themselves for future threats to civil aviation security?	07
