

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V EXAMINATION – WINTER 2025****Subject Code:3150108****Date:25-11-2025****Subject Name:Airport 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.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) What are the key differences between major airport types (e.g., international, regional, cargo, hub airports), and what unique functions do they serve?	03
	(b) How has the history and evolution of air transport impacted modern-day airport infrastructure and operations?	04
	(c) What role do airports play in the global transportation network, and how do they contribute to economic development?	07
Q.2	(a) What are the key functions of a passenger terminal, and how do they contribute to the overall passenger experience at an airport?	03
	(b) How do modern passenger terminals integrate technology to enhance operational efficiency and passenger convenience?	04
	(c) What challenges do airports face in handling increasing passenger volumes, and how can terminal expansions or upgrades address these issues?	07
OR		
	(c) Explain Aircraft parking position.	07
Q.3	(a) What is Hot Spot?	03
	(b) Define and shortly explain TORA and TODA.	04
	(c) What are the primary categories of aerodrome aids, and how do they assist pilots in safe takeoff, landing, and navigation?	07
OR		
Q.3	(a) Differentiate between airport and aerodrome.	03
	(b) How do advanced technologies such as radar systems and GPS improve the accuracy and reliability of aerodrome aids?	04
	(c) How do visual aids such as runway markings, lighting systems, and approach lighting assist pilots during various weather conditions?	07
Q.4	(a) What do you understand by terminal area? What are the facilities provided in the terminal building?	03
	(b) What is the Instrument Landing System (ILS), and how does it enable precision landings during low-visibility conditions?	04
	(c) What are the key challenges associated with maintaining and upgrading aerodrome aids, and how can airports ensure they remain compliant with international safety standards?	07
OR		
Q.4	(a) What role do airport security screenings play in maintaining passenger safety?	03
	(b) Shortly explain ILS categories.	04

- (c) What do you understand by the term visual aid in connection with airport? Name the different visual aids? **07**
- Q.5** (a) How do airports ensure the safety and security of passengers during an emergency evacuation? **03**
- (b) Difference between threshold and displaced threshold. **04**
- (c) Explain about circling approach. **07**
- OR**
- Q.5** (a) What are the key components of an airport's emergency response plan? **03**
- (b) What is EMAS? **04**
- (c) Explain fire fighting services and selection about their locations on military airbases. Enlist equipment used for firefighting services. **07**