

**Model Question Paper**  
**Sixth Semester BE Degree Examination**  
**Introduction to Airport and Airlines**

Time: 3 Hours (180 Minutes)

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.**2. M: Marks, L: RBT (Revised Bloom's Taxonomy) level, C: Course outcomes.*

Module -1			M	L	C
Q1	a.	Discuss the functions of an airport as an operational interface between air and surface transport.	8	L2	CO1
	b.	Describe centralized passenger terminal systems.	6	L2	CO1
	c.	Explain decentralized passenger terminal systems and state their operational implications.	6	L2	CO1
<b>OR</b>					
Q2	a.	Illustrate the airport as a system, showing the interaction between airside, landside and terminal facilities.	8	L2	CO1
	b.	Explain the complexity of airport operations.	6	L2	CO1
	c.	Describe the role of management structures in airport operations.	6	L2	CO1
<b>Module- 2</b>					
Q3	a.	Discuss the various operating constraints at an aerodrome.	8	L2	CO4
	b.	Describe the impact of inclement weather on airport operations.	6	L2	CO4
	c.	Outline measures adopted to maintain operational readiness during adverse weather.	6	L2	CO4
<b>OR</b>					
Q4	a.	Explain the role of airfield inspections in maintaining aerodrome safety.	8	L2	CO4
	b.	Describe aerodrome certification requirements.	6	L2	CO4
	c.	Discuss the importance of maintaining aerodrome operational readiness.	6	L2	CO4
<b>Module - 3</b>					
Q5	a.	Describe the major activities involved in aircraft turnaround operations at an airport.	8	L2	CO2
	b.	Illustrate the passenger handling process at an airport.	6	L2	CO2
	c.	Explain the importance of efficient ground coordination.	6	L2	CO2
<b>OR</b>					
Q6	a.	Explain aircraft ramp servicing activities.	8	L2	CO2
	b.	Illustrate the baggage handling system at an airport.	6	L2	CO2
	c.	Discuss the operational significance of baggage handling efficiency.	6	L2	CO2
<b>Module - 4</b>					
Q7	a.	Explain the importance of aviation security and describe the ICAO framework for airport security.	10	L2	CO3
	b.	Discuss the importance of access control and perimeter protection systems at an airport and describe the measures adopted to prevent unauthorized entry into restricted areas.	10	L2	CO3
<b>OR</b>					
Q8	a.	Illustrate the passenger and baggage security screening process at an airport, indicating the major stages and explain the purpose of each stage in ensuring	10	L2	CO3

		aviation security.			
	b.	Describe the role of air traffic control, navigation, and meteorology in ensuring safe airport operations.	10	L2	CO3
<b>Module - 5</b>					
Q9	a.	Discuss airport emergency response and rescue operations, emphasizing their role in ensuring safety and operational continuity at an airport.	10	L2	CO5
	b.	Describe the basics of Safety Management Systems (SMS) and explain their role in airport operations.	10	L2	CO5
<b>OR</b>					
Q10	a.	Explain airport operational performance management and discuss key success factors for effective airport management.	10	L2	CO5
	b.	Describe sustainable airport development and discuss environmental impacts and carbon management strategies.	10	L2	CO5

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