

School of Business

Department of Business
Mid Term Examination

Exam Date: 30 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - MSB23T2005 - Forecasting and Automation in Aviation

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Why forecasting models for air traffic passengers must be regularly updated and validated. K2 (2)
- 2) Define Air Traffic Movement. K1 (3)
- 3) Relate the importance of considering multiple factors, such as economic indicators and special events, in forecasting air traffic passengers. K2 (4)
- 4) Classify different types of airspace based on their purposes and restrictions. K2 (6)
- 5) Assume you are an aviation planner tasked with improving air traffic movement efficiency at a busy airport. What factors would you consider, and how would you prioritize your action plan? K3 (6)
- 6) Contrast Mode S transponders and Mode A/C transponders in terms of functionality and data transmitted. K3 (9)
- 7) Identify the key challenges faced by aviation planners in managing air traffic movement at a major international airport. Apply your knowledge to propose innovative solutions for overcoming these challenges. K4 (8)
- 8) Assume a scenario where a major airline is experiencing a sudden increase in passenger bookings. Analyse the potential impact on airport operations and aircraft scheduling and propose measures to manage the increased demand. K4 (12)

OR

Categorize the different types of cargo transported by air, such as perishable goods, pharmaceuticals, dangerous goods, and live animals, based on their characteristics and handling requirements. K4 (12)