

# CBCS SCHEME

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17AE563

## Fifth Semester B.E. Degree Examination, Jan./Feb.2021 Aircraft Transportation Systems

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Explain the systematic description of airport transportation system with neat figure. (10 Marks)  
b. Write short notes about development of Airport and Airlines. (10 Marks)

OR

- 2 a. List out detail the current challenges faced by aircraft transportation system. (10 Marks)  
b. Explain briefly about the role of ICAO and regulatory frame work. (10 Marks)

### Module-2

- 3 a. Explain in detailed design of cabin design structure on considering the passengers comfort. (12 Marks)  
b. Estimate flight performance and Mission. (08 Marks)

OR

- 4 a. Describe the mass break down for a transport aircraft with a neat sketch. (12 Marks)  
b. Explain supply chain in aircraft manufacturing. (08 Marks)

### Module-3

- 5 a. Explain in detail about the type of airlines and steps involved in MRO. (10 Marks)  
b. Write a short note on different role of airport. (05 Marks)  
c. Discuss fleet strategy in detail. (05 Marks)

OR

- 6 a. Explain the role of the airport regulatory issues and its operations and device. (10 Marks)  
b. Explain the process of network management and flight planning. (10 Marks)

### Module-4

- 7 a. Discuss in detail about the roles of aircraft navigation services provided by ATS. (10 Marks)  
b. Summarize aircraft separation and flight guidance system. (10 Marks)

OR

- 8 a. How airspace structures are divided with the different types of surveillance used in different areas. (10 Marks)  
b. List and explain the communication systems used in aircraft operation. (10 Marks)

### Module-5

- 9 a. How do you define marketing mix for passenger airlines? Explain the variables involved in marketing mix. (10 Marks)  
b. Explain the principles of airline scheduling. (10 Marks)

OR

- 10 a. Describe the factors considered in order to balance the public service and economic aspects of scheduling. (10 Marks)  
b. Explain fleet planning in detail. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.