

# CBCS SCHEME

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18AE641

## Sixth Semester B.E. Degree Examination, June/July 2023 Aircraft Transportation System

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Discuss air transport, mobility and its environment in detail. (10 Marks)  
b. Illustrate the development of aircraft design driver speed and range in detail. (10 Marks)

OR

- 2 a. Write short notes on development of airports and airlines. (10 Marks)  
b. Explain the methodology for top down market forecast in detail. (10 Marks)

### Module-2

- 3 a. Explain the detailed structure of cabin design on considering passengers comfort. (10 Marks)  
b. Explain in detail the aircraft mass breakdown with block diagram. (10 Marks)

OR

- 4 a. Illustrate the flight performance envelope and explain its characteristics in detail. (10 Marks)  
b. Discuss in detail about the process involved in development of aircraft from idea to product. (10 Marks)

### Module-3

- 5 a. Classify the airline types and explain it. (10 Marks)  
b. Explain the flight operations in the view of airlines in detail. (10 Marks)

OR

- 6 a. Explain the aircraft handling process and Baggage handling process at the airport. (10 Marks)  
b. Discuss about the airport infrastructure planning in detail. (10 Marks)

### Module-4

- 7 a. Explain in detail about the roles of air navigation services provides by the air transportation system. (10 Marks)  
b. Discuss about the different aircraft navigation systems uses for the flight guidance. (10 Marks)

OR

- 8 a. Explain the following: i) Voice radio communication ii) Data link communication. (10 Marks)  
b. Describe about the integrated air traffic management and control systems. (10 Marks)

### Module-5

- 9 a. Explain in detail about the marketing strategies since deregulation in airline passenger marketing. (10 Marks)  
b. Write the purpose of forecasting methods and explain about the casual method and Judgmental methods in forecasting techniques. (10 Marks)

OR

- 10 a. Explain different types of air freight rates and factors affecting them. (10 Marks)  
b. Explain about the fleet planning in airline managements. (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.