

CBCS SCHEME

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18AE641

Sixth Semester B.E. Degree Examination, Jan./Feb. 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. Explain the current challenges faced by Aircraft transportation system. (08 Marks)
b. Explain about the role of ICAO in ATS. (08 Marks)
c. List some aviation Regulatory bodies. (04 Marks)

OR

- 2 a. Define mobility. Systematically describe the aircraft transportation system. (10 Marks)
b. Explain the following : i) Development of airport ii) Development of Airlines. (10 Marks)

Module-2

- 3 a. List and describe the classification of flight vehicles. (10 Marks)
b. What is OEM? Explain the role of the aircraft manufacturer. (10 Marks)

OR

- 4 a. Explain the Aircraft Cabin design on considering the cabin requirements. (10 Marks)
b. With neat sketch explain 3 seater single Aisle, 6 seater single Aisle, Twin Aisle, Double Deck Aircraft cabin Design. (10 Marks)

Module-3

- 5 a. Discuss the different type of Airlines available across the world. (10 Marks)
b. Explain the role of Airport. (10 Marks)

OR

- 6 a. What is MRO? Explain in brief about MRO. (10 Marks)
b. Explain about steps involved in flight operation. (10 Marks)

Module-4

- 7 a. Write a note on Aircraft Navigation system. (10 Marks)
b. Explain the principle of air space structure with suitable example. (10 Marks)

OR

- 8 a. Write short notes on integrated air Traffic Management. (10 Marks)
b. Explain the followings : i) Radio navigation system (10 Marks)
ii) Satellite based Navigation system.

Module-5

- 9 a. Explain the variables involved in Marketing Mix. (10 Marks)
b. Explain in detail about Airline Passenger Marketing. (10 Marks)

OR

- 10 a. Briefly explain the principles of Airline scheduling. (10 Marks)
b. Explain about Fleet Planning. (10 Marks)

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.