

CBCS SCHEME

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18AE641

Sixth Semester B.E. Degree Examination, June/July 2024 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. With the help of flow-chart, illustrate the terms Environment, Transport and Mobility in ATS. (10 Marks)
b. Describe a systematic description of air transport. (10 Marks)

OR

- 2 a. Write short notes on development of Airlines. (10 Marks)
b. Explain the regulatory frame work for air transport. (10 Marks)

Module-2

- 3 a. By Focusing of airlines, describe the cabin design. (10 Marks)
b. Explain aircraft mass breakdown for transport aircraft. (10 Marks)

OR

- 4 a. Explain the typical mission profile of a civil transport aircraft. (10 Marks)
b. Explain the development process (from idea to product) of civil aircraft program. (10 Marks)

Module-3

- 5 a. Explain the different types of airlines in the commercial air transport market segment. (10 Marks)
b. Explain the MRD blocks in an aircraft. (10 Marks)

OR

- 6 a. With the help of flow chart, explain the aircraft handling process at the airport. (10 Marks)
b. Explain the Turnaround process. (10 Marks)

Module-4

- 7 a. Explain the role of the air navigation services. (10 Marks)
b. With the help of neat sketch, explain the air craft separation. (10 Marks)

OR

- 8 a. With the help of neat sketches, explain the different types of aviation navigation systems. (10 Marks)
b. Describe about primary and secondary surveillance radar. (10 Marks)

Module-5

- 9 a. How do you define marketing mix, explain the variables in marketing mix. (10 Marks)
b. Describe in detail about the trends in domestic passenger airfares. (10 Marks)

OR

- 10 a. What are the steps involved in aircraft selection process? Explain it with hub and spoke system. (10 Marks)
b. Describe the factors considered in order to balance the public service and economic aspects of scheduling. (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.