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18AE641

Sixth Semester B.E. Degree Examination, July/August 2022 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 a neat figure write a short note on environmental aspects in ATs. (10 Marks)
- b. With a neat figure illustrate the transport and mobility in ATs. (10 Marks)

OR

- 2 a. With neat sketch, explain how the developments of aircraft design driver speed and range took place in early eras. (10 Marks)
- b. Explain briefly about the role of ICAO and development of airlines and airports. (10 Marks)

Module-2

- 3 a. With neat figure explain in detail about flight envelope and payload range diagram. (10 Marks)
- b. Explain the detailed structure and cabin design on considering the passengers comfort. (10 Marks)

OR

- 4 a. Illustrate the role of aircraft manufactures. (10 Marks)
- b. Explain in detail about the process involved in development of aircraft. (10 Marks)

Module-3

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

OR

- 6 a. Explain the airport operation and services in detail. (10 Marks)
- b. Elaborate in detail about fleet strategy and aircraft selection. (10 Marks)

Module-4

- 7 a. Explain in detail about the roles of aircraft navigation. (10 Marks)
- b. How different modes of communication system are subdivided in ATS? Explain. (10 Marks)

OR

- 8 a. Briefly explain emission, noise and sound of air transport. Also elaborate these effects on climate. (10 Marks)
- b. Explain integrated air traffic management and control systems. (10 Marks)

Module-5

- 9 a. Explain the variables involved in marketing mix. (10 Marks)
- b. Write a short note on fleet planning. (10 Marks)

OR

- 10 a. Briefly explain the principles of airline scheduling. (10 Marks)
- b. Explain Air Cargo-market for air freight. (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.