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21AE742

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Aircraft Maintenance, Repair and Overhaul

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. With sample explain about Type certificate (form 8110.9). (08 Marks)
- b. Describe about the types of maintenance in aircraft. (08 Marks)
- c. Explain about failure rate patterns. (04 Marks)

OR

- 2 a. Explain Airworthiness certificate (FAA form 8100.2) in detail. (10 Marks)
- b. What are the types of aviation maintenance certificates? Explain any three. (10 Marks)

Module-2

- 3 a. Describe about the i) Manufacture's documentation ii) Fault isolation manual. (07 Marks)
- b. Explain: i) Federal Aviation Regulation (FARs) ii) Airworthiness directives (Ads). (07 Marks)
- c. What is i) IPC ii) MMEL. (06 Marks)

OR

- 4 a. Describe ATA document standards. (10 Marks)
- b. Write a brief notes on technical policies and procedure manual (TPPM) in airlines operations. (10 Marks)

Module-3

- 5 a. Write about the structure of aircraft maintenance management. (08 Marks)
- b. Describe about the role of i) Manager in aircraft maintenance ii) Front line supervisor iii) Manager of overhaul shops (12 Marks)

OR

- 6 a. Write short notes on : (12 Marks)
 - i) Flight line (Pre-flight and Post flight)
 - ii) Responsibilities of maintenance control centre
 - iii) Line maintenance operation General
- b. Explain about the skills required for the aircraft maintenance crew. (08 Marks)

Module-4

- 7 a. Describe : i) Organization of hanger maintenance ii) Problems in hanger maintenance (12 Marks)
- b. With short notes , explain typical 'C' check. (08 Marks)

OR

- 8 a. Explain: i) Engine shop ii) Ground support equipment. (08 Marks)
- b. Explain about material management and inventory control in maintenance. (06 Marks)
- c. Describe about the support function of material management in the store. (06 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.

Module-5

- 9 a. Write notes on maintenance safety regulations. (06 Marks)
b. Explain about general safety rules and airline safety management. (08 Marks)
c. Describe the role and responsibilities of safety manager, supervisor. (06 Marks)

OR

- 10 a. What are the different types of Hazardous materials are there and how it is stored and handle in aircraft and explain about the emergency procedures to follow in case of emergency. (10 Marks)
b. Describe about the requirements of an employee about informed about the presence of hazardous materials in the workplace and any five basic requirement of an hazard communication. (10 Marks)

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