CBCS SCHEME

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21AE742

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Aircraft Maintenance, Repair and Overhaul

Time: 3 hrs. Max. Marks: 100

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

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-1

1 a. Provide a detailed explaination of why maintenance is necessary and describe the types of maintenance. (10 Marks)
b. Explain with suitable figure the failure rate pattern. (10 Marks)

OR

2 a. What is the need of Aviation industry certification requirements? Explain in detail. (10 Marks)
b. In detail outline Airworthiness Certificate (FAA form 8100.2). (10 Marks)

Module-2

3 a. Outline the key aspects of manufacturing documentation , emphasizing its importance. (10 Marks)
b. Provide a detailed outline of regulatory documentation. (10 Marks)

OR

4 a. In detail discuss about ATA Document Standard. (10 Marks)
b. In detail outline about Technical Policies and Procedure Manuals (TPPM). (10 Marks)

Module-3

5 a. Explain the role of management in aviation. Discuss in detail about airline maintenance organization structure. (10 Marks)
b. Discuss about management area of concern in an airlines. (10 Marks)

OR

6 a. Discuss about aircraft log book and aircraft maintenance crew skill requirements. (10 Marks)
b. Write a note on Maintenance Control Centre (MCC) in air line. (10 Marks)

Module-4

7 a. Discuss in detail the types of activities in hangar maintenance. (10 Marks)
b. Elaborate on various types of shops used in hangar maintenance. (10 Marks)

OR

8 a. Discuss about the problem areas in hanger maintenance. (10 Marks)
b. In detail explain the role of material management hangar maintenance. (10 Marks)

Module-5

9 a. In detail outline about Safety rules observed in aircraft maintenance. (10 Marks)
b. Explain in detail about Airline Safety Management. (10 Marks)

OR

10 a. Discuss about Hazardous Material Storage and Handling in Aircraft Industry. (10 Marks)
b. In detail discuss about Accident and Injury Reporting. (10 Marks)

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