



CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

21AE742

Seventh Semester B.E./B.Tech. Degree Examination, June/July 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.

Module-1

- 1 a. Discuss the role of engineer and role of mechanic in aircraft maintenance. (10 Marks)
- b. Discuss the types of maintenance with suitable sketches. (10 Marks)

OR

- 2 a. Discuss the effects of redesign on system reliability and perfection Vs. cost in maintenance. (10 Marks)
- b. Discuss the failure rate patterns in aircraft maintenance. (10 Marks)

Module-2

- 3 a. Outline the importance of manufacturer's documentation in an aircraft maintenance. (10 Marks)
- b. Explain about manufacturer documentation and fault isolation manual. (10 Marks)

OR

- 4 a. Outline the importance of regulatory documentation in an aircraft maintenance. (10 Marks)
- b. Explain parts availability effect on aircraft maintenance. (10 Marks)

Module-3

- 5 a. With the help of flow chart discuss the aircraft maintenance management structure. (10 Marks)
- b. Outline the management areas concern in Airlines. (10 Marks)

OR

- 6 a. Explain the maintenance control center responsibilities. In aircraft maintenance. (10 Marks)
- b. What are the roles and responsibilities of overhaul shops manager. (10 Marks)

Module-4

- 7 a. Explain the hanger maintenance activity - 4 typical "c" check in aircraft maintenance. (10 Marks)
- b. Explain in detail about the Line Maintenance Control Center Flight - line (Pre-flight or Post flight). (10 Marks)

21AE742

OR

- 8 a. What are the types of shops involved in hanger maintenance? (10 Marks)
- b. Describe in detail the importance of Aircraft Logbook in aviation maintenance. (10 Marks)

Module-5

- 9 a. Discuss the following :
i) Airline Safety Management ii) General Safety rules. (10 Marks)
- b. Explain the purpose and necessity of cannibalization (Parts robbing) in aircraft maintenance. (10 Marks)

OR

- 10 a. Discuss about Accident and Injury Reporting . (10 Marks)
- b. Explain the eight basic concepts of troubleshooting. (10 Marks)

* * * * *