

# VTU B.E/B.TECH QUESTION PAPER SET

## CBCS SEMESTER VI

# MAINTENANCE OVERHAUL AND REPAIR OF AIRCRAFT SYSTEMS

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# CBCS SCHEME

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15AE664

## Sixth Semester B.E. Degree Examination, June/July 2018 Maintenance Overhaul and Repair of Aircraft Systems

Time: 3 hrs.

Max. Marks: 80

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

### Module-1

- 1 a. What are the needs for maintenance of aircraft? (08 Marks)  
b. Why we have to do maintenance? Explain briefly. (08 Marks)

OR

- 2 a. Explain with suitable figure the failure rate pattern. (08 Marks)  
b. What are the types of certificate required in an aviation industry? Explain any one. (08 Marks)

### Module-2

- 3 a. Explain in detail the types of documentation used in a Aviation industry. (08 Marks)  
b. Explain briefly airplane maintenance manual and Fault insulation manual. (08 Marks)

OR

- 4 Explain in detail the purpose of the Technical policies and procedures manual (TPPM) with table. (16 Marks)

### Module-3

- 5 a. Explain the role of management in aviation. Draw the diagram of a typical airline maintenance organization structure. (08 Marks)  
b. What is Maintenance Control Centre (MCC). Explain the responsibilities of Maintenance Control Center (MCC). (08 Marks)

OR

- 6 a. What are the requirements of maintenance crew skill? Explain briefly. (08 Marks)  
b. Discuss about management area of concern in an airlines. (08 Marks)

### Module-4

- 7 a. Explain the various types of activities in hanger maintenance. (08 Marks)  
b. What is material management inventory control? Explain briefly. (08 Marks)

OR

- 8 a. Explain about support function of materials storage issue control and handling. (08 Marks)  
b. What is stock level adjustment and shelf life explain in detail. (08 Marks)

### Module-5

- 9 a. Explain about safety regulation. (08 Marks)  
b. Explain in detail about airline safety management. (08 Marks)

OR

- 10 a. Discuss about the accident and injury report. (08 Marks)  
b. Discuss about the maintenance safety program. (08 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.