

CODE NO: 07A82108

R07

SET No - 1

IV B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
AIRCRAFT MAINTENANCE MANAGEMENT
(AERONAUTICAL ENGINEERING)

Time: 3hours**Max. Marks: 80**

Answer any FIVE questions
All Questions Carry Equal Marks

- - -

1. Explain the role of Engineer and a Mechanic in a maintenance program. What are the two types of maintenance procedures we have? [16]
2. Explain the typical maintenance steering group approach involved in development of maintenance program. [16]
3. Explain various types of certifications and requirements involved in a typical maintenance programme. [16]
4. What are the objectives and requirements of a maintenance program? Explain. [16]
5. Explain the various functions of Engineering Department in a maintenance planning. [16]
6. Explain various types of steps involved in line maintenance with its organizational chart. [16]
7. Explain the typical organizational structure of quality control organization. [16]
8. What is reliability? Explain various elements involved in the reliability program. [16]

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SET No - 2

IV B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
AIRCRAFT MAINTENANCE MANAGEMENT
(AERONAUTICAL ENGINEERING)

Time: 3hours**Max. Marks: 80**

Answer any FIVE questions
All Questions Carry Equal Marks

- - -

1. Explain Reliability, redesign and various failure rate patterns in maintenance. [16]
2. Explain the difference between the process oriented maintenance and task oriented maintenance in a maintenance program. [16]
3. Explain the ATA document standard. Name some of the steps involved in TPPM. [16]
4. Explain the manufacturer documentation in a typical maintenance programme. [16]
5. Explain the difference between production planning and production control. [16]
6. Explain various types of steps involved in hanger maintenance with its organizational chart. [16]
7. Explain the difference between quality assurance and quality control. [16]
8. What is reliability? Explain various elements involved in the reliability program. [16]

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SET No - 3

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AIRCRAFT MAINTENANCE MANAGEMENT
(AERONAUTICAL ENGINEERING)

Time: 3hours**Max. Marks: 80**

Answer any FIVE questions
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- - -

1. Explain the different maintenance checks which an aircraft will undergo according to the time interval. [16]
2. Explain the current MSG process MSG-3 with suitable charts. [16]
3. Explain the airline generated documentation in a typical maintenance programme. [16]
4. Explain the manager level functions of
 - a) Technical service Directorate
 - b) Aircraft Maintenance Directorate. [8+8]
5. Explain production planning and feedback for planning. [16]
6. Explain the organizational structure of maintenance overhaul shops. [16]
7. a) What is quality assurance? What are the requirements of QA?
b) What is quality audit? Explain. [16]
8. Explain the typical maintenance safety procedure we are going to follow in aircraft maintenance management with suitable charts. [16]

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SET No - 4

IV B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
AIRCRAFT MAINTENANCE MANAGEMENT
(AERONAUTICAL ENGINEERING)

Time: 3hours**Max. Marks: 80**

Answer any FIVE questions
All Questions Carry Equal Marks

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1. Explain various considerations to be considered in establishing a maintenance program. [16]
2. Define a) Maintenance
b) Inherent reliability
c) Goals and objectives
d) Mechanics, Technicians, Maintainers and Engineers. [4+4+4+4]
3. Explain the ATA document standard. Name some of the steps involved in TPPM. [16]
4. Explain the manager level functions of
a) Material Directorate
b) Maintenance program Evaluation Directorate. [8+8]
5. Explain the organizational structure of Production planning and control. [16]
6. Explain the differences in the organizational structure of hanger maintenance and line maintenance. [16]
7. a) Explain typical ISO 9000 quality standard.
b) What are the various technical records we are going to maintain in QA? [8+8]
8. What is trouble shooting? Explain various levels of trouble shooting. [16]

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