

Roll No.

Printed Pages : 2

8757

BT-7/M12

MAINTENANCE ENGINEERING

Paper-ME-437-E Opt-I

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any five questions selecting at least one question from each unit.

Unit-I

1. Explain the following terms :
 - (a) Evolution of Maintenance 10
 - (b) Economics of Maintenance. 10
2. Describe different maintenance programs ? Explain various functions and benefits of maintenance programs. 20

Unit-II

3. Explain the following terms :
 - (a) Performance monitoring. 10
 - (b) Thermography and corrosion monitoring. 10
4. What is TPM ? Explain the methodology and evolution of TPM. 20

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Unit-III

5. Explain the following terms :
 - (a) Ultrasonic Radiography. 10
 - (b) Endoscopes. 10
6. Discuss Maintenance planning and control system. Describe the documentation requirement for a proper MPC system. 20

Unit-IV

7. Explain Maintainability. Also explain various techniques for improvement of operational reliability. 20
8. Write short notes on the following terms :
 - (a) Maintainability program. 5
 - (b) Key issues in availability improvement programs 5
 - (c) Pareto analysis 5
 - (d) Maintenance information and reporting systems. 5

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