

03842

MANAGEMENT PROGRAMME

Term-End Examination

June, 2011

MS-57 : MAINTENANCE MANAGEMENT

Time : 3 hours

Maximum Marks : 100

Note : *Answer Any Four questions.*

All questions carry equal marks.

1. (a) Describe the concept of Reliability, maintainability and availability. Explain also the interrelationship among them.
(b) Explain procedures that might improve the reliability of a system. Distinguish between a system with components in parallel and in series.

2. (a) Why are safety and environmental issues important for a manufacturing Organisation ? Explain how maintenance function can help in risk management.
(b) Elaborate your understanding regarding training and development function in maintenance engineering and management.

3. (a) Explain Failure Rate, Hazard Rate and Bath - Tub curve.
(b) What are the causes of time and cost over - runs of projects ? Describe the steps which can be taken to keep the cost of the project under control

4. (a) What are the benefits of Reliability Centered Maintenance (RCM) ? Discuss the pitfalls in implementing RCM.
(b) What are the objectives of Total Productive Maintenance (TPM) ? What are the big six Losses ? How these can be eliminated or reduced ?

5. (a) Elaborate your understanding about maintenance planning and scheduling.
(b) Discuss the role of information technology in maintenance management

6. Write short note on *any three* of the following.
 - (a) Spare Parts Inventory
 - (b) Condition Based Maintenance
 - (c) Failure Modes and Effects Analysis
 - (d) Maintenance Audit
 - (e) Maintenance Costing and Budgeting