

## MANAGEMENT PROGRAMME

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Term-End Examination

December, 2011

MS-57 : MAINTENANCE MANAGEMENT

*Time : 3 hours*

*Maximum Marks : 100*

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*Note : Answer any four questions. All questions carry equal marks.*

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1. (a) Discuss briefly the various techniques for condition based maintenance.  
(b) What are the objectives of Total Productive Maintenance ? Discuss the significance of Age-specific failure rate.
2. (a) Explain the importance of maintenance audit. Describe the salient features to be covered in a maintenance audit report.  
(b) Describe the process through which a shutdown programme has to be established. Give an example from thermal power plant.
3. (a) What is Reliability ? How Redundancy is related to reliability ? Explain how component redundancy yields higher reliability than unit redundancy. For a general case of n-component series system, prove that is true.

- (b) Discuss the relationship between emerging technology, maintenance management and TQM.
4. (a) What are the aims and activities of maintenance ?
- (b) What are major components of safety and environmental issues of an enterprise ? Differentiate between investigation of incidents and audits.
5. (a) Discuss the processes in details for maintenance planning and scheduling.
- (b) Elaborate your understanding regarding the importance and processes for maintenance costing and budgeting.
6. Write short notes on *any Three* of the following.
- (a) Terotechnology
  - (b) Reliability Centered Maintenance.
  - (c) Maintenance Organisation
  - (d) Process Capability
  - (e) Spare Parts Inventory.
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