

MANAGEMENT PROGRAMME

Term-End Examination

December, 2016

MS-057 : MAINTENANCE MANAGEMENT

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Answer any four questions.*
(ii) *All questions carry equal marks.*
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1. (a) What do you understand by preventive predictive maintenance ? How can it be implemented in any plant ?
(b) Discuss the objectives and benefits of maintenance planning and scheduling.
2. (a) Describe the factors that are to be considered for evolving a best maintenance organization for an existing plant.
(b) Explain the conceptual model through which the maintenance function can achieve its objectives on a sustained basis.
3. (a) What is maintainability ? Discuss elements of maintainability in brief.
(b) What can be done to improve the negative image and low self-concept of maintenance ?

4. (a) What is a 'bath-tub' curve ? Briefly describe the three regions into which the life cycle of a unit or device can be sub-divided.
- (b) How are replacement decisions taken in case of equipment/components subjected to sudden failure ?
5. (a) What parameters are used for machine vibration monitoring ? Mention the conditions under which they are used for machine condition monitoring.
- (b) Why should the maintenance function be audited ? Explain the steps involved in a 'maintenance audit'.
6. Write short notes on **any four** of the following :
- (a) Corrective maintenance.
- (b) Maintenance control.
- (c) Zero based budgeting for maintenance.
- (d) Computerized Maintenance Management System (CMMS) software.
- (e) Misconceptions about Reliability Centered Maintenance (RCM).
- (f) Predictive Maintenance.
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