

MANAGEMENT PROGRAMME

Term-End Examination

December, 2010

00444

MS-57 : MAINTENANCE MANAGEMENT

Time : 3 hours

Maximum Marks : 100

Note : This question paper contains 7 (seven) questions. Do any five questions. All questions carry equal marks.

1. Define maintenance and its functions. What are the main components of a maintenance system ?
2. Name the various modules normally present in CMMS. Briefly describe their functions.
3. Describe the concept of reliability, maintainability and availability. Why is it said that 100% reliability of all the components of a machine or equipment is not always aimed to achieve ?
4. Discuss quality and profitability relationships with reference to quality of design and quality of conformance characteristics. Can you integrate maintenance activities into this relationship ?

5. "Plant shutdowns for equipment overhauls need to be adequately planned". Why ? What will happen if this is not done ? What are the various steps of planning of maintenance shutdowns ?

 6. Elaborate the concept of Reliability Centred Maintenance (RCM). Discuss how RCM can be helpful to maintenance manager in improving his job functioning ?

 7. Write short notes on *any two* of the following :
 - (a) Total Productive Maintenance.
 - (b) Zero-based budgeting.
 - (c) Non-linear hazard model.
 - (d) Methodology of maintenance audit.
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