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MS-057

MANAGEMENT PROGRAMME

Term-End Examination, 2019

MS-057: MAINTENANCE MANAGEMENT

Time: 3 Hours] | Maximum Marks: 100

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

- 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.
- (a) Briefly describe the concept of reliability, maintainability and availability. Explain the procedure that might improve the reliability of a system.
 - (b) What is TPM? What are the objectives of TPM?

 Discuss the methods, tools and techniques to achieve the TPM.

- 3. (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".
- (a) Describe the methodology adopted to improve safety and environmental performance through maintenance management.
 - (b) What do you understand by Failure Modes and Effects Analysis (FMEA)? What are the objectives of this process?
- 5. (a) When does an organisation opt for contractual maintenance? Explain with examples. What are its merits and demerits? On what type of machines do you suggest this policy?
 - (b) Discuss the role of plant manager as safety manager in maintaining safety of the equipment, humans, assets and environment.

6.	Write short notes on any four of the following:	
	(a)	Terotechnology
	(b)	Breakdown maintenance
	(c)	Buffer stock
	(d)	Just in time (JIT)
	(e)	Time based maintenance
	(f)	Zero based budgeting for maintenance
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