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**MS-057**

**MANAGEMENT PROGRAMME (MP)**

**Term-End Examination**

**June, 2021**

**MS-057 : MAINTENANCE MANAGEMENT**

*Time : 3 Hours*

*Maximum Marks : 100*

*Weightage : 70%*

**Note :** (i) Answer any **five** questions.

(ii) All questions carry equal marks.

(iii) The word limit for long answer type questions is **800-1000** words and for short notes type questions is **200-300** words.

1. Explain 'planned-maintenance system'. What are the steps involved in evolving a successful planned maintenance system ? Discuss.

2. "Spare parts go through various stages in their life cycle." Explain the life cycle of spare parts in brief.
3. "In TQM organizations, the traditional approach of post-production detection of defects is discouraged and a prevention philosophy is adopted to bring down the non-conformances." Relate this approach to modern maintenance management systems.
4. Explain, how component redundancy yields higher reliability than unit redundancy. For the general case of an  $n$ -component series system, prove that this is true.
5. "Maintenance audit helps in analyzing performance factors and suggest improvements." Explain this statement with some examples.
6. "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 ?

**P. T. O.**

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7. Write short notes on any *three* of the following :
- (a) Terotechnology
  - (b) Objectives of maintenance costing
  - (c) Role of human resource development in maintenance management
  - (d) Advantages of computerized network planning
  - (e) Autonomous maintenance