**Management Programme (MP)/
Post Graduate Diploma in Operations Management (PGDOM)**

ASSIGNMENT
For
July 2025 and January 2026 Semesters

MS-57: MAINTENANCE MANAGEMENT

**(Last date of submission for July 2025 Semester is 31st October 2025
and for January 2026 Semester is 30th April, 2026)**

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**School of Management Studies
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

ASSIGNMENT

Course Code	:	**MS-57**
Course Title	:	**Maintenance Management**
Assignment Code	:	**MS-57/TMA/JULY/2025**
Coverage	:	**All Blocks**

Note: Attempt all the questions and submit this assignment to the Coordinator of your study centre. Last date of submission for July 2025 Semester is 31st October 2025and for January 2026 Semester is 30th April, 2026.

1. Discuss the objectives and functions of a maintenance system. Explain how the total maintenance cost is affected by the level of preventive maintenance.

2. What do you mean by continuous improvement? Explain the similarities and dissimilarities between Deming's PDCA Cycle and CAPD Cycle.

3. Write a short note on the following:
   a) Reliability centred Maintenance (RCM)
   b) Failure Mode and Effect Analysis (FMEA)
   c) Predictive Maintenance
   d) Maintenance Audit

4. What is a 'bath-tub' curve? Briefly describe the three regions into which life cycle of a unit or device can be subdivided.

5. What parameters are used for machine vibration monitoring? Mention the conditions under which they are used for machine condition monitoring.