MMPO-007

Master of Business Administration (MBA)/ Master of Business Administration (Online) MBA (OL)/ Master of Business Administration (Operations Management) (MBAOM)/ Post Graduate Diploma in Operations Management (PGDIOM)

ASSIGNMENT
For
July 2026 and January 2027 Semesters

MMPO-007: Maintenance Management

(Last date of submission for July 2026 Semester is 31st October 2026 and for January 2027 Semester is 30th April 2027)

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

ASSIGNMENT

Course Code	**:**	**MMPO-007**
Course Title	**:**	**Maintenance Management**
Assignment Code	**:**	**MMPO-007/TMA/JULY/2026**
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 2026 Semester is 31st October 2026 and for January 2027 Semester is 30th April 2027.

1. Prepare a suitable maintenance costing framework for a medium-sized manufacturing organization and explain how allocation and apportionment of maintenance overheads can improve cost control and budgeting effectiveness.

2. Discuss how Reliability-Centred Maintenance (RCM) can improve equipment performance and operational efficiency in an industrial organization.

3. Discuss the relationship between sustainability, safety and maintenance management and explain the elements of sustainable and safe maintenance practices such as digital record keeping, prognostic tools, diagnostic tools and environmental impact management.

4. How can modern Maintenance 4.0 technologies and IT-enabled maintenance systems contribute toward effective maintenance management, improved decision-making and reduced downtime? Explain with suitable examples.

5. Write a short note on the followings:
   a. Zero Based Budgeting (ZBB) in Maintenance
   b. Preventive Maintenance and Breakdown Maintenance
   c. Green Maintenance and Sustainable Development
   d. Bathtub Curve in Reliability Engineering