



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : PE-ME801I Maintenance Engineering

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (I) Where is cladding technique used?
- (II) What is the primary role of lubricants?
- (III) Thread inserts are used to repair _____.
- (IV) What is Maintenance?
- (V) What do you mean by TPM?
- (VI) What do you mean by Decentralized maintenance organization?
- (VII) What is the prime factor in maintenance cost?
- (VIII) Where is Magnetic Pulse welding used?
- (IX) _____ is an example of manual lubrication.
- (X) Epoxy – injection grouting is the method of _____ repairing.
- (XI) What is Maintainability?
- (XII) What is the main goal of OEE?

Group-B (Short Answer Type Question)

Answer any three of the following

[5 x 3 = 15]

2. How do you differentiate Production cost and Maintenance cost? [5]
3. What are the advantages of welding in repairing and maintenance? [5]
4. How can the records of lubrication be maintained for scheduling of lubrication? [5]
5. How can the sprocket wear be repaired for maintenance of chain drives? [5]
6. What are the considerations taken for repairing using welding? [5]

Group-C (Long Answer Type Question)

Answer any three of the following

[15 x 3 = 45]

7. (a) Explain Overall Equipment Effectiveness (OEE). [8]
(b) How TPM is associated with OEE? [7]
8. (a) What are the requirements to set up an organization? [3]
(b) Briefly explain about each requirement. [12]
9. (a) Briefly explain about the impact of maintenance cost. [9]
(b) How maintenance cost can be controlled? [6]
10. (a) Briefly explain about spirit level. [7]
(b) Write a short note on feeler gauge. [8]
11. (a) Briefly explain about preventive maintenance. [5]
(b) What are the various components of preventive maintenance? [5]
(c) Discuss the advantage and disadvantages of preventive maintenance. [5]