

Roll No.

Total Pages : 02

BT-7/M-18

37060

MAINTENANCE ENGINEERING

ME-437-E

Option I

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. Describe the relationship between maintenance management and other functional area of an enterprise.

20

2. Classify and compare various maintenance programs. Describe benefits and limitations of preventive maintenance.

20

Unit II

3. Define CBM. What are its basic principles ? What are the tepes involved in implementation of CBM ?

20

(3-49/5) L-37060

P.T.O.

4. (a) Explain, how the performance, vibration and current monitoring of a machine is done ?
(b) Write down failure modes, causes, effects and criticality of transmission line failure of an automotive vehicle in standard RCM form enquires.

10

10

Unit III

5. Describe the *two* latest NDT techniques used for condition monitoring.
6. What do you understand by maintenance planning and control system ? How is the documentation done ? What are the maintenance productivity areas need to focus for improvements ?

20

20

Unit IV

7. What do you understand by operational reliability ? What are the techniques for improving the operational reliability ?
8. Explain the following :
(a) Fishbone diagram and Pareto principle
(b) Data processing system for integrated maintenance.

20

20

L-37060

2

800