

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE – RAIGAD – 402 103
Summer Semester Examination, May 2018**

Branch: M. Tech. (Manufacturing Engineering)
Subject with Subject Code: Total Productive Maintenance
[MMF203H]

Semester: II
Marks: 60

Date: 21 / 05 / 2018

Time: 3 Hrs.

Instructions to the Students:

1. Each question carries 12 marks.
2. Attempt any five questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

Q.1. Solve any TWO of the following. (12)

- a. What is RCM and enlist its principles?
- b. What is Tero Technology? State its objectives and Benefits.
- c. Explain the 5's principles with examples.

Q.2. Solve any TWO of the following. (12)

- a. What are the different types of Maintenance and explain each of them in brief?
- b. Explain preventive maintenance schedules with example.
- c. What are the challenges in TPM and its importance?

Q.3. Solve the following. (12)

- a. Organizing for TPM implementation. Describe.
- b. Explain the terms:
 - i. Zero Breakdown Concept
 - ii. Zero Defect

Q.4. Solve the following. (12)

- a. Write in detail about autonomous maintenance and focused maintenance.
- b. Explain in detail about the Organization for TPM with flowchart.

Q.5. Solve the following. (12)

- a. Write in detail about maintenance planning and scheduling.
- b. Describe about the Maintenance Staffing Methods.

Q.6. Solve the following. (12)

- a. Write in detail about the Expert systems with example.
- b. Describe in brief about Maintenance Management Information System.