

22623

**M.Tech 2nd Semester (MAE) CBCS Scheme
Examination, May-2017**

**DIAGNOSTIC MAINTENANCE AND
MONITORING**

Paper-MTMA 22 C2

Time allowed : 3 hours]

[Maximum marks : 100

*Note : Attempt five questions in all, selecting one question
from each section. All questions carry equal marks.*

Question no. 1 is compulsory.

1. (a) Define Maintainability. 4×5=20
(b) Define Ferrography
(c) Define development and scope of total
productive maintenance.
(d) Define failure mode and effect analysis.

Section-A

2. Explain the concept of maintenance, maintenance
services and relevance of maintenance. 20
3. Explain the following : 20
 - (a) Objectives of maintenance
 - (b) Quality and quality circle in maintenance.

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Section-B

4. Explain Defect generation and what are the different types of failures. 20
5. Explain the following : 20
 - (a) Fault tree analysis
 - (b) Planned and unplanned maintenance

Section-C

6. Explain the following : 20
 - (a) Visual and temperature monitoring
 - (b) Vibration monitoring
7. Explain the following : 20
 - (a) Noise monitoring
 - (b) Sound and smell monitoring

Section-D

8. Explain total preventive maintenance and also explain basic systems of total preventive maintenance. 20
9. Explain the following : 20
 - (a) Procedure and steps of total preventive maintenance
 - (b) Explain productivity circle.

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