

Roll No.

22623

**M. Tech 2nd Sem. (MAE)
CBCS Scheme
Examination – May, 2018**

DIAGNOSTIC MAINTENANCE & MONITORING

Paper : MTMA22C2

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Section. All questions carry equal marks. Question No. 1 is *compulsory*.

1. (i) Define Engineering reliability 4 × 5 = 20
(ii) Define fault tree analysis
(iii) Define spectroscopy
(iv) Define total productive maintenance

SECTION – A

2. Explain the following : 20
(i) Quality and quality circle in maintenance

22623-256-(P-3)(Q-9)(18)

P. T. O.

(ii) Explain the concept of maintenance and relevance of maintenance

3. Explain the following : 20

(i) Automation and maintenance

(ii) Maintenance services

SECTION – B

4. Explain the following : 20

(i) Failure mode and effect analysis

(ii) Breakdown and corrective maintenance

5. Explain the following : 20

(i) Different types of failures

(ii) Planned and unplanned maintenance

SECTION – C

6. Explain the following : 20

(i) Lubricant monitoring methods

(ii) Corrosion monitoring

7. Explain the following : 20

(i) Noise and sound monitoring

(ii) Leakage monitoring

22623- (P-3)(Q-9)(18) (2)

22623- (P-3)(Q-9)(18) (3)

SECTION – D

8. Explain development and scope of total productive maintenance and also explain procedure and steps of total productive maintenance. 20

9. Explain the following : 20

(i) Terotechnology

(ii) Basic systems of total productive maintenance