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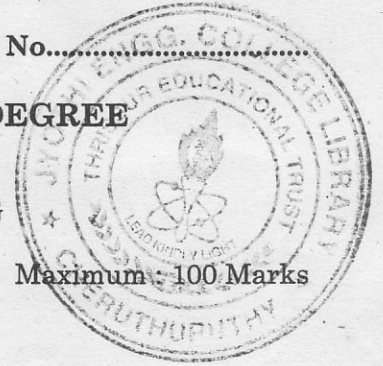
Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, MAY 2011**

ME 04 804 (B)—MAINTENANCE ENGINEERING

Time : Three Hours

Maximum : 100 Marks



Part A

Answer all questions.

1. (a) What are the advantages of condition based maintenance ?
- (b) Distinguish between Preventive maintenance and Predictive maintenance.
- (c) Write short notes on proximity analysis.
- (d) Explain vibration severity charts.
- (e) What are the different types of non-destructive testing ?
- (f) What is a acoustic monitoring ?
- (g) What is Bathtub curve ?
- (h) Distinguish between reliability and quality of a Product.

(8 × 5 = 40 marks)

Part B

2. (a) Explain the principles and the methods of condition monitoring.

Or

- (b) Explain briefly the procedure of Preventive maintenance.

(15 marks)

3. (a) Explain vibration signature analysis with suitable example.

Or

- (b) Explain shock pulse method to test antifriction bearings.

(15 marks)

4. (a) Explain the techniques used in Wear Debris analysis.

Or

- (b) Explain ferrography.

(15 marks)

5. (a) Describe the various components of the reliability - cost curve of a product.

Or

- (b) Describe the important quantitative techniques for reliability analysis of components and systems.

(15 marks)