

44771



EIGHTH SEMESTER B.TECH DEGREE SUPPLEMENTARY EXAMINATION, JUNE 2013

ME 04 804 B – MAINTENANCE ENGINEERING

Time : Three Hours

Maximum : 100 Marks

PART – A

(Answer all questions) (8X5= 40)

- I. 1. What is meant by opportunistic maintenance?
2. Write short notes on predictive maintenance.
3. Explain real time analysis.
4. Explain vibration signature.
5. What is ferrogram? Explain.
6. Write a note on fluid contamination analysis.
7. Write short notes on availability.
8. Explain failure rate and mean failure rate.

PART – B

(4 X 15 = 60)

- II. a. Explain the purpose, method, advantages and disadvantages of predictive maintenance.

(OR)

- b. Discuss in detail about condition monitoring principles and methods and its advantages and disadvantages.

- III. a. Explain in detail about vibration analysis and proximity analysis

(OR)

- b. Explain i) vibration limits ii) vibration severity criteria iii) vibration severity charts.

- IV. a. Explain in detail about i) non destructive testing ii) radio graphic inspection.

(OR)

- b. Explain the methods of corrosion monitoring.

- V. a. Explain in detail about the concepts of maintainability and availability.

(OR)

- b. Explain about reliability and system reliability.
