C 61493

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Name....................

Reg. N...................

SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, APRIL 2014

(2009 Scheme)

ME/AM 09 L03—INDUSTRIAL MAINTENANCE

(Regular/Supplementary/Improvement)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.
Each question carries 2 marks.

1. Write two functions of maintenance ?

2. Define spectral analysis.

3. What is meant by unbalance in vibration ?

4. Define liquid penetrant testing.

5. Define infant morality.

(5 × 2 = 10 marks)

Part B

Answer any four questions.
Each question carries 5 marks.

6. Describe the basic concepts and purpose of maintenance.

7. Discuss the most common forms of misalignment.

8. Explain the frequency analysis.

9. Describe non destructive testing.

10. Write the spectral oil analysis procedure.

11. Discuss about failure rate determination.

(4 × 5 = 20 marks)

Part C

Answer all questions.
Each question carries 10 marks.

12. (a) Describe the importance of transducers for vibration measurement.

Or

Turn over

(b) Explain the principles of condition monitoring in detail.

13. (a) Explain the sequential and parallel frequency analyzers.

Or

(b) Discuss in detail the classification of vibration severity criteria.

14. (a) Explain the acoustic emission corrosion monitoring.

Or

(b) Describe the radio graphic inspection method in detail.

15. (a) Explain the Weibull exponential probability distribution.

Or

(b) Describe in detail the series and parallel system reliability.

(4 × 10 = 40 marks)