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Question Paper Code : 31553

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Eighth Semester

Mechanical Engineering

ME 2037/ME 803 — MAINTENANCE ENGINEERING

(Common to Production Engineering)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Mean Time Between Failures (MTBF).
2. State reliability.
3. Define Total Productive Maintenance
4. What is the use of lubrication?
5. Define Condition monitoring.
6. Write about wear debris analysis.
7. Write about skills of operator.
8. Give the use of manpower planning.
9. Write short notes about hydraulic and pneumatic repair shop.
10. Define coding scheme.

PART B — (5 × 16 = 80 marks)

11. (a) Briefly describe the Accelerated Testing. (16)

Or

- (b) Explain Mean Time Between Failures (MTBF). (16)

12. (a) Discuss about the Repairable and repair cycle in Tools Management. (16)

Or

(b) Explain the methods of lubrication. (16)

13. (a) Describe Standard hourly cost estimation and Manpower repair cost estimation. (16)

Or

(b) How do we estimate repair, removal, or capital improvement costs? Discuss. (16)

14. (a) How do we monitor and report maintenance and capital improvement accomplishments? (16)

Or

(b) Describe the load testing. (16)

15. (a) Explain the maintenance work quality. (16)

Or

(b) Discuss about Software maintenance and their distribution. (16)
