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Question Paper Code: 53289

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Seventh/Eighth Semester

Mechanical Engineering

ME 6012 - MAINTENANCE ENGINEERING

(Common to Mechanical and Automation Engineering/Production Engineering)

(Regulation 2013)

(Also common to PTME 6012 — Maintenance Engineering for B.E. (Part-Time) Seventh Semester – Mechanical Engineering – Regulation 2014)

Time: Three hours Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What are the objectives of maintenance?
- 2. What is meant by maintenance economics?
- 3. Give the merits of condition based maintenance.
- 4. What is TPM? Give the benefits.
- 5. List the advantages of condition monitoring.
- 6. How to analyze the vibration?
- 7. Define failure analysis.
- 8. State the purpose of bearing in a machine.
- 9. State the benefits of proper maintenance of material handling equipments.
- 10. What is work permit?

PART B — $(5 \times 13 = 65 \text{ marks})$

- 11. (a) (i) What are the important factors to be considered in maintenance planning? (7)
 - (ii) Explain about the reliability in maintenance in detail. (6)

Or

(b) Explain the terms MTBS, MTBF, MTTF, MTTR and FIT. (13)

