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Question Paper Code : 42832

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Eighth Semester

Mechanical Engineering

ME 2037 – MAINTENANCE ENGINEERING

(Common to Production Engineering and Mechanical and Automation Engineering)

(Regulations 2008)

(Also Common to PTME 2037 – Maintenance Engineering for B.E. (Part-Time) Seventh Semester – Mechanical Engineering – Regulations 2009)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. Define maintenance.
2. Define Mean Time to Repair (MTTR).
3. Define the term Preventive Maintenance.
4. Name the five S principles used for implementations of TPM.
5. What is equipment health monitoring ?
6. Define see back effect.
7. Define failure analysis.
8. Define Root cause analysis.
9. State the benefits of proper maintenance of material handling equipments.
10. Write the role of equipment records in maintenance.

42832



PART – B

(5×16=80 Marks)

11. a) Discuss about the important factors considered in maintenance planning. (16)
(OR)
b) Describe about Mean Time Between Failures (MTBF). (16)
12. a) Explain in detail Maintenance Categories. (16)
(OR)
b) Explain briefly about TPM with the help of flow chart. (16)
13. a) Explain briefly the process involved in condition monitoring. (16)
(OR)
b) Explain on-load and off-load testing used in condition monitoring with its flow chart. (16)
14. a) Discuss about fault tree diagram. (16)
(OR)
b) Explain the Repair methods for slideways. (16)
15. a) Explain the detail repair methods for material handling equipment. (16)
(OR)
b) Explain the general structure of six phases of good maintenance management. (16)