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Roll No

MMTP - 205
M.E./M.Tech. II Semester
Examination, June 2013
Maintenance of Thermal Power Plant
Time : Three Hours

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Maximum Marks :70

Note : 1. Attempt any five questions out of eight.
2. All questions carry equal marks.

1. a) Draw an organization structure of maintenance department of any big Automobile industry.
b) Discuss emergency maintenance procedure with suitable example.
2. a) Differentiate between:
i) Preventive and Predictive maintenance
ii) Observational and Estimation techniques
b) Discuss various techniques of Condition monitoring in any organisation.
3. a) What is thermography? Discuss noise signature.
b) Explain the concept of on-line techniques of diagnostic maintenance. Discuss any one.
4. a) Discuss the theories of elasto-hydrodynamic and boundary lubrications.

- b) Briefly discuss various types of lubricants and their properties.
5. a) What do you know from non-conventional lubricants? State in brief with applications.
b) Discuss the various types of gear failures with reasons.
6. Write short note on following: (Any two)
i) Importance of failure analysis
ii) Failure of bearings
iii) Failure due to faulty heat treatment
7. a) How predictive and preventive maintenance of steam turbine and its components is done? Discuss briefly.
b) Write about on-load and off-load cleaning of condenser tubes.
8. Write a technical brief on: (Any two)
i) Cooling tower maintenance
ii) Methods of leaking detection in the condensers
iii) Purchase procedure in maintenance department
iv) Wear Analysis

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