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Roll No

MMTP - 205 M.E./M.Tech. II Semester

Examination, December 2014

Maintenance of Thermal Power Plant

Time: Three Hours

Maximum Marks:70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) Draw an organization structure of maintenance department of an engineering college having capacity of 5000 students.
 - b) How inventory control is done in any maintenance department? Explain its techniques.
- a) State about warning systems used in maintenance department.
 - Classify the maintenance techniques and state their comparison advantages and disadvantages.
- a) Explain the working principle of Non-destructive technique. State its industrial applications.
 - b) Explain techniques of condition monitoring in any organization.
- a) Discuss the classification of on-line techniques of diagnostic maintenance. Discuss any one technique.

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- b) Define the following terms: (any two)
 - i) Signature analysis.
 - ii) Wear analysis.
 - iii) Thermography.
- a) Discuss types of lubricants and their comparative properties.
 - Explain the theories of elasto-hydrodynamic and boundary lubrications.
- a) Write about non- conventional lubricants and their applications.
 - b) Discuss various reasons and types of failures in bearings.
- a) State and brief common causes of fallure in metals and alloys.
 - Explain predictive and preventive maintenance of steam turbine and its components.
- 8. Write short notes on any two of the following:
 - i) Classification of cooling towers.
 - Lubrication of bearings.
 - iii) On-load and Off-load cleaning of condenser tubes.
