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Roll No

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

Examination, June 2017

Maintenance of Thermal Power Plant*Time : Three Hours**Maximum Marks :70*

- Note :** i) Attempt any five questions.
 ii) All questions carry equal marks.
 iii) Draw neat diagrams wherever required.

1. a) Discuss the various maintenance strategies with their applications.
 b) Define inventory. Explain the inventory control techniques in maintenance department.
2. a) Explain signature analysis. State observational and estimation techniques.
 b) What do you understand by wear analysis? Why it has importance? Discuss. www.rgpvonline.com
3. a) Discuss predictive and preventive maintenance and their suitability.
 b) Compare online diagnostic maintenance techniques. Which one is suitable in case of instrumentation?

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4. a) Discuss various techniques of condition monitoring.
 b) What is non-destructive testing? Discuss its importance in power plant maintenance.
5. a) Discuss environmental effects on lubricants.
 b) Discuss types of lubricants with properties.
6. a) Compare elasto-hydrodynamic lubrication and boundary lubrication theories.
 b) Discuss the effects of residual stresses in metals.
7. a) Discuss various failures in gears with their remedies.
 b) Discuss on-load and off-load cleaning of condensers tubes.
8. Write short note on following: (any two)
 - a) Failure of steam turbine blades.
 - b) Failure due to time-temperature effect.
 - c) Lubrication of valves.
 - d) Thermography.

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