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Total No. of Questions :8]

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Roll No

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

Examination, June 2016

Maintenance of Thermal Power Plant

Time: Three Hours

Maximum Marks:70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- iii) Assume suitable data or dimensions, if necessary, clearly mentioned it.
- 1. a) Explain the engineering and management aspects of maintenance.
 - b) Describe how stores management can help in keeping a better spare parts inventory.
- 2. a) What do you mean by condition monitoring? What are their objectives?
 - b) What is vibration analysis? How it is used for equipment health monitoring?
- 3. a) Explain elasto-hydrodynamic lubrication theory and write its applications.
 - What is lubricant monitoring? Why and where this analysis is used more effectively?
- 4. a) What is Failure Analysis, name the various techniques of failure analysis and explain briefly any one of them.
 - b) What do you mean by machine failure? Explain with suitable example.

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5. a) What are the inputs of a systematic selection process for the selection of a maintenance system best suited for Power plants?

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- b) Write different types of turbine blades, failure and its prevention.
- What is the importance of shutdown maintenance in a thermal power plant? Why unscheduled shutdowns cannot be permitted in them?
 - b) List different leak detection methods in the condensers and write its prevention.
- a) Draw a layout of maintenance department for a thermal power plant.
 - b) List different components of thermal power plants and write probable causes of failure of components.

http://www.rgpvonline.com Write short notes on the following (Any Two):

- a) On-line, off-line condition monitoring techniques.
- Environmental effects on lubrications
- c) Fault-tree failure analysis
- d) Maintenance schedule of cooling tower

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