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Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

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

Examination, December 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) Draw neat diagrams wherever required.
- a) Discuss the organisation structure of maintenance department.
 - Define inventory. Explain the purchase procedure in maintenance department.
- 2. a) Explain the role of warning systems. State various types of warning systems.
 - b) What do you understand by human considerations in maintenance management? Why it has importance?
- 3. a) Discuss online diagnostic maintenance techniques especially in case of instrumentation.
 - b) Compare predictive and preventive maintenance.
- 4. a) What is condition monitoring? Discuss various techniques of condition monitoring.
 - b) What is thermography? Also define noise signature.

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- 5. a) Discuss modes of lubrication in different bearings.
 - Discuss non-conventional lubricants with properties and compare with conventional lubrication.
- a) Compare film lubrication and boundary lubrication theories.
 - State the importance of failure analysis in maintenance.
 State common causes of failures in metals and alloys.

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- 7. a) Discuss failure due to faulty heat treatment.
 - State the methods of leak detection in condensers. Discuss on-load and off-load cleaning of condensers tubes.
- 8. Write short notes on the following (any two):
 - a) Failure of bearings and gears
 - b) Erosion of steam turbine blades and its prevention
 - c) Lubrication of bearings
 - d) Cooling towers

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