[2] rgpvonline.com

- a) Explain the analysis of pollution from thermal power plants.
 - Bring out the difference between the closed cycle and open cycle gas turbine power plant.
- a) Compare the designs of ducting for air fuel, gases and pulverized fuels.
 - What do you mean by optimum insulation thickness and cost? Discuss.
- a) State and brief discuss various preliminary acceptance tests for various components of thermal power plant.
 - b) Discuss the following terms in thermal power plant:
 - i) Maintenance logging.
 - ii) Drop setting.
 - iii) Heat balance of items.
- 7. a) Discuss how specifications and contract documents prepared?
 - b) Write short about seismic analysis.
- Write technical note on following:
 - a) Purchase and contract for fuel supplies.
 - b) Training of power plant personnel.
 - c) Ejector and vacuum pumps.

Total No. of Questions :8]

[Total No. of Printed Pages:2

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MMTP - 201

M.E./M.Tech., II Semester

Examination, June 2014

Thermal Power Plant Engineering

Time: Three Hours

rgpvonline.com Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) State advantages and limitations of super-critical power plants.
 - State the importance and significance of various performance curves used in thermal power plants.
- 2. a) Discuss the materials which are used for gas turbine and compressors. What properties should the blade material posses?
 - b) What is pulverization? What is the mechanism of pulverized fuel firing system?
- 3. a) What is drift? How is the drift eliminated in the cooling towers?
 - b) Explain the working of steam turbine driven feed pump.