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Total No. of Questions :8]

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Roll No

MMTP - 201 M.E./M.Tech., II Semester

Examination, December 2016

Thermal Power Plant Engineering

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) What do you understand by super critical thermal power plants? In what aspects they are different than conventional power plant? Discuss.
 - b) Name various curves that are necessary for the performance evaluation of the thermal power plant. Draw and discuss any one curve of your choice.
- 2. a) State the working principle of Fluidized bed combustion.
 - b) State in brief about pulverised fuel firing burners.
- a) How dust is handled in thermal power plant? Discuss its mechanism.
 - b) Explain boiler feed water treatment and its process.
- a) Discuss the principle of air cooled condensers and its function in thermal power plant.

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b) What is De-aerator? State its function in brief.

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- a) State the need and importance of plant instrumentation in thermal power plant.
 - Discuss in brief about electro-mechanical transducers used in thermal power plant.
- a) Briefly discuss pipe flexibility analysis.
 - Define Insulation. Derive the formula for optimum insulation thickness.

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- a) Discuss starting, loading and normal operation checks for newly commissioned thermal power plant.
 - Discuss safety regulations and aspects that must be considered in thermal power plant.
- 8. Write short note on following (any two):
 - a) Contract documents for thermal power plant
 - b) Training of power plant personnel
 - c) Seismic analysis

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