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Roll No

MMTP-201
M.E./M.Tech., II Semester
 Examination, December 2017
Thermal Power Plant Engineering
Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
 ii) All questions carry equal marks.

1. a) Explain the working of a thermal power plant.
 b) Explain the performance curve and flow diagram of a critical power plant.
2. a) What are the different components of a power plant. Explain them.
 b) What are the different types of cooling towers. Explain any one of them.
3. a) Explain the draft in a Chimney. How the draft fans are located.
 b) What are the various control valves and actuators?
4. a) Prepare a heat balance sheet of different items of a thermal power plant.
 b) What are the different instrumentation used in a power plant?

5. a) What is the optimum thickness of an insulation in a pipe for the power plant.
 b) How does the pipes are selected? Explain pipe flexibility analysis.
6. a) What are the safety and pollution control measures taken in a power plant?
 b) How seismic analysis is done for a power plant?
7. a) Explain closed cycle and open cycle gas turbine of a power plant.
 b) Explain the training procedure for a power plant personal.
8. Write short notes on any three:
 - a) Ash handling
 - b) Vacuum pumps
 - c) Fluidized bed combustion
 - d) Feed pumps

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