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Total No. of Questions: 8]

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Roll No

MMTP-301(A) M.E./M.Tech., III Semester

Examination, December 2016

Computer Aided Design of Thermal System (Elective-I)

Time: Three Hours

Maximum Marks: 702

Note: i) Solve any five questions.

- ii) All questions carry equal marks.
- 1. How design problems are formulated? How material selection is done in computer aided design?
- 2. Discuss types of thermal models with details.
- 3. How casting and extrusion processes are simulated?
- 4. How thermal design of Heat engines are done?
- 5. Explain methods of Numerical simulation.
- Discuss followings:

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- Optimization
- Objective functions

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7. Explain followings methods of optimization.

- Calculus method
- Search method
- Write short notes on followings:
 - Geometric programming
 - Genetic algorithms
 - Methods of numerical simulation

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