Total No. of Questions: 8]

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Roll No

MMTP-301(A)

M.E./M.Tech., III Semester

Examination, December 2017

Computer Aided Design of Thermal System (Elective-I)

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

ii) All questions carry equal marks

1. Discuss the basic element of thermal system design. Also describe the conceptual design steps in design process.

2. Explain:

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- Differentiate between Physical and Conceptual model
- Thermal design of heat engine.
- 3. Describe the system simulation and methods for Numerical simulation.
- What is optimization and discuss different optimization methods.
- 5. Explain:
 - Basic concept of optimization
 - Objective function and constraints of optimization

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- 6. Explain the Search Method of linear and dynamic programming and where it is used.
- 7. Give the design steps for the evaporator. Explain each step in detail. What are the different design process for material selection of Refrigeration System.
- Write short notes on (any two):
 - Numerical Computation techniques for continuous model
 - Objective of optimization
 - Application to casting extrusion

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577

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