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Roll No .....

**MCTA - 301 (C)**

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

Examination, June 2014

**Real Time and Fault Tolerant System (Elective-I)**

*Time : Three Hours*

*Maximum Marks : 70*

*Note:* i) Attempt any five questions.

ii) Each questions carry equal marks.

1. What do you mean by real time operating system? Define its components.
2. Describe the task scheduling algorithms with the help of example.
3. What are the data transfer factors required to select real time operating system? Describe in detail.
4. Write short notes:
  - i) Task synchronization
  - ii) Real time development environments
5. Describe ASM diagram and data flow analysis using effective examples.

What do you mean by fault tolerant? Describe its architecture.  
Explain methods of fault detection and diagnosis in detail.  
What is system reliability and describe different type of methods to improve reliability of system.

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