

2E9106

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M. Tech. II - Sem. (Main / Back) Exam., June-July 2016
Computer Engineering
2MCS43 / 4MCS13 Advanced Real-Time System Design
(Elective)

Time: 3 Hours

Maximum Marks: 100

Min. Passing Marks: 33

Instructions to Candidates:

Attempt any **five** questions. Marks of questions are indicated against each question. Draw neat and comprehensive sketches wherever necessary to clearly illustrate your answer. Assume missing data suitably if any and specify the same.

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Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)

1. NIL _____ 2. NIL _____

- Q. 1 (a) Explain performance metric in real time systems in detail. [15]
(b) Write short note on RMFF algorithm [5]
- Q. 2 Write and explain the fault tolerance issues in multiprocessor systems in detail. [20]
- Q. 3 What is Scheduling? Explain multiprocessor Scheduling algorithm along with its application. [20]
- Q. 4 Give and explain the concept of distributed real time system along with an example. [20]

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Q. 5 Explain the temporal distance model alongwith its constraints in detail in Real time system design. [20]

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Q. 6 (a) Explain the concept of Resource management in multiprocessor systems. [12]

(b) Write short note on Resource Reclaiming in Multiprocessor system [8]

Q. 7 Write short notes on:

(a) Task synchronization [10]

(b) Real time communication [10]

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