

Midterm Review

CSE4/521

B.Ramamurthy

10/5/2005

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Exam Date

- ◆ October 12, 2005
- ◆ Please bring
 - 1 A4-size sheet of any information you may need, handwritten by you.
 - Pencils, pens and erasers.

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Topics

- ◆ Nachos: Roadmap
- ◆ Project 1
- ◆ Operating System Structures: Chapter 1,2
- ◆ Processes: Chapter 3
- ◆ CPU Scheduling: Chapter 5
- ◆ Mutual Exclusion, Synchronization and Inter-Process Communication models: Chapter 6
- ◆ Class notes on all the chapters

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Specific Sections

- ◆ Ch.1: 1.1– 1.8
- ◆ Ch.2: 2.1 – 2.5
- ◆ Ch.3: 3.1 – 3.4
- ◆ Ch.5: 5.1 – 5.4, 5.7.1
- ◆ Ch.6: 6.1 – 6.7
- ◆ For all the chapters also study the class notes which is available on line
- ◆ Nachos: Syscall API esp. file system API that you designed and Exception handling

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Format

- ◆ 5 major questions 20(+/-5) points each; may have many subsections.
- ◆ Each question may have many subsections.

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Tentative Question Topics

- ◆ System call (Nachos)
- ◆ Process Scheduling
- ◆ IPC models: Producer/Consumer, Reader/writer, etc.
- ◆ Synchronization at various levels: semaphores, test and set locks etc.
- ◆ Process description and control

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