

Santa Clara University
Department of Computer Engineering
Advanced Operating Systems (COEN383, Section-1)
Midterm Preview (30 points)
Time: 60 minutes

Name _____

Grades

Problem 1	6	
Problem 2	6	
Problem 3	6	
Problem 4	6	
Problem 5	6	
Total	30	

1. Understand process scheduling and understand how long time it would take to execute jobs sequentially vs. in parallel? – 6pts?

Answer)

The approximate CPU utilization is = $\{ 1 - (\text{IO wait})^{\# \text{ of Processes}} \}$

2. Understand memory mapping and the different levels of mapping that can occur [6 pts]

Answer)

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3. How do you recover disk metadata in memory if you have system crash? [6 pts]

Answer)

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4. How UNIX can add new device dynamically without any need for recompiling the OS? [6 pts]

Answer)

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5. Understand how the OS performs IO on disk? [6 pts]

Answer)

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