



UNIVERSITY OF NEW YORK, TIRANA

Operating Systems

Fall 2013

Typical questions for the exam

Lesson 7

1. Which are the four conditions for a Deadlock to happen.
2. Briefly describe the Banker's algorithm.

Lesson 8

3. Explain Hardware Address Protection.
4. Explain the MMU.
5. Discuss context switch and swapping.
6. Explain Contiguous Allocation.
7. Discuss Segmentation Hardware.
8. Discuss Paging Hardware.
9. Discuss Paging Hardware With TLB
10. Explain shared pages.
11. Discuss Hashed Page Tables
12. Discuss Inverted Page Table Architecture

Lesson 9

13. Discuss Virtual Memory. What is it and how is it implemented

14. Fully describe and discuss the steps in handling a Page Fault
15. Briefly describe the page replacement algorithms.
16. Discuss Global vs. Local Allocation
17. Explain thrashing.
18. Explain the working set model and the policy for page-fault frequency.

Lesson 10

19. Discuss disk attachment.
20. Discuss the scheduling algorithms.
21. Describe the RAID levels.

Lesson 11

22. Discuss directory structure organization.
23. Discuss File Sharing – Consistency Semantics

Lesson 12

24. Discuss the layers of the file system.
25. Discuss In-Memory File System Structures
26. Discuss the VFS.
27. Discuss the different allocation methods.