

1. [6 pt] Describe the extended machine view of an operating system. How does it differ from the resource allocator view?

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2. [4 pt] Why is Internet Explorer an integral part of Windows? Why don't we require any application (such as `ls`) to be a part of Unix?
3. [6 pt] What is the difference between a daemon and a zombie? Are they essential to a system's performance?

4. [5 pt] Unix has several types of files. Briefly describe character special file and block special file. Is it possible to view a directory as a regular file?

5. [4 pt] A system call is invoked by putting data into a specified location and then, making a call to the kernel. Can we achieve the same as a regular function? Explain your answer.

6. [4 pt] What is the purpose of states “Blocked Suspended” and “Ready Suspended” in the process model?
7. [9 pt] How does the critical section problem solution for multiple processes ensure that the protocol for the solution is satisfied. Show the application of solution to satisfy mutual exclusion, progress, and bounded wait.