<u>22C:1</u>	112 Quiz #	1 Spring 2005
Your	r Name:	
1. Re	esource abstraction serves the following	purposes:
	Enables similar resources to export a commo	on interface.
	Complicates the application-programming in	nterface.
	Provides the necessary mathematical underp	inning to make the resource definition precise.
	Enables the system to use Java (and other land	nguage abstractions) as an OS interface.
	Saves a programmer from having to learn th	e detailed interface to each different resource.
	All of the above	
	None of the above	
but t	Tyou rented a parking space in a downtow the parking lot owner rents the space to comple of	wn area for the hours 8:00 am to 6:00 pm, other people in the evening, this is an
00000	Space multiplexed sharing of the park Double dipping (fraud) Time multiplexed sharing of the parki All of the above None of the above	
3. Which of the following statements are true about multiprogramming?		
	The use of threads makes multiprogramming	g obsolete.

- It forces the OS to incorporate processor scheduling.
- It encourages the abstraction of process so that the OS can distinguish among different running programs.
- It is not used on contemporary personal computers.
- It was very popular in the 1970s, but is rarely used in contemporary operating systems.

- 4. How is a resource characterized in an operating system?
- O The totality of allocatable hardware units
- Memory, normally held by a parent process/thread
- Anything that a process/thread can request, and the process may be suspended if it is not available
- The remaining CPU time allocation of a process/thread
- CPU time and primary memory.
- 5. A file descriptor is:
- A POSIX-specific data structure used by the kernel.
- The user's mechanism for specifying actions to be performed on a file.
- A resource abstraction used to implement icons on a desktop.
- An abstract data type for secondary storage devices.
- An OS data structure used to keep the state of file.
- 6. In a POSIX file system, the open command is used to:
- Create an instance of a file descriptor.
- O Differentiates between preparing for read use and write use.
- Specifies the path name of a file to be used.
- All of the above.
 - None of the above.
- 7. A thread differs from a lightweight process in that
- Threads share a process's resources but lightweight processes do not.
- There is no difference.
- O Threads run in user space, but lightweight threads run in kernel space.
- Lightweight processes execute their own programs.
- Threads have a parent process.