

1. Any alteration of a resource by one thread affects the environment of the other threads in the same process.	TRUE	
2. _____ are characterized by the presence of many single-threaded processes.	multiprocess applications	
3. The _____ are the fundamental entities that can be scheduled and dispatched to run on one of the system processors.	Kernel threads	
4. As a default, the kernel dispatcher uses the policy of hard affinity in assigning threads to processors.	FALSE	
5. The basic form of communication between processes or threads in a micro kernel operating system is _____.	messages	
6. The blocked state in which the process is waiting for an event, such as the end of an I/O operation, the availability of a resource, or a signal from another process is the _____ state.	interruptible	
7. The Clouds operating system implements the concept of a thread as primarily an entity that can move among address spaces which represents the _____ Thread-to-Process relationship.	One-to-Many	
8. An example of an application that could make use of threads is a file server.	TRUE	
9. The idea of having a many-to-many relationship between threads and processes has been explored in the experimental operating system _____.	TRIX	
10. If a process is swapped out, all of its threads are necessarily swapped out because they all share the address space of the process.	TRUE	
11. If there is an application or function that should be implemented as a set of related units of execution, it is far more efficient to do so as a collection of separate processes rather than a collection of threads.	FALSE	
12. In a multithreaded environment, a _____ is defined as the unit of resource allocation and a unit of protection.	process	
13. In a multithreaded environment there are separate stacks for each thread, as well as a separate control block for each thread.	TRUE	
14. In a pure ULT facility, all of the work of thread management is done by the application, and the kernel is not aware of the existence of threads.	TRUE	
15. A _____ is a dispatchable unit of work that executes sequentially and is interruptible so that the processor can turn to another thread.	thread	
16. _____ is a good example of an OS using a combined user-level and kernel-level thread approach.	Solaris	
17. A _____ is an entity corresponding to a user job or application that owns resources such as memory and open files.	process	
18. A _____ is a single execution path with an execution stack, processor state, and scheduling information.	thread	
19. A _____ is a static entity, consisting of an address space and ports through which messages may be sent and received.	domain	
20. A _____ is a user-created unit of execution within a process.	user-level thread	
21. The _____ is the collection of program, data, stack, and attributes defined in the process control block.	process image	
22. It is necessary to _____ the activities of various threads so they do not interfere with each other or corrupt data structures.	synchronize	
23. It takes less time to terminate a process than a thread.	FALSE	
24. The key states for a thread are: Running, _____, and Blocked.	Ready	
25. Most operating systems contain two fundamental forms of concurrent activity: processes and _____.	interrupts	
26. On a uniprocessor, multiprogramming does not enable the interleaving of multiple threads within multiple processes.	FALSE	
27. The OS performs a protection function to prevent unwanted interference between processes with respect to resources.	TRUE	
28. The potential performance benefits of a multicore organization depend on the ability to effectively exploit the parallel resources available to the application.	TRUE	
29. The principal disadvantage of the _____ approach is that the transfer of control from one thread to another within the same process requires a mode switch to the kernel.	kernel-level thread	
30. A process or task in Linux is represented by a _____ data structure.	task_struct	

31. _____ refers to the ability of an OS to support multiple, concurrent paths of execution within a single process.	Multithreading
32. The six states of a Windows thread are: Ready, Standby, Running, Waiting, Transition, and _____.	Terminated
33. The _____ state is when the thread has terminated.	ZOMBIE
34. Termination of a process does not terminate all threads within that process.	FALSE
35. There are four basic thread operations associated with a change in thread state: Block, Unblock, Finish, and _____.	Spawn
36. There are two broad categories of thread implementation: user-level threads and _____.	kernel-level threads
37. A thread enters the _____ state, after waiting, if it is ready to run but the resources are not available.	transition
38. The traditional approach of a single thread of execution per process, in which the concept of a thread is not recognized, is referred to as a _____.	single-threaded approach
39. The unit of dispatching is usually referred to as a process or task.	FALSE
40. A way to overcome the problem of blocking threads is to use a technology referred to as _____, which converts a blocking system call into a nonblocking system call.	jacketing
41. Windows is an example of a kernel-level thread approach.	TRUE
42. Windows makes use of two types of process-related objects: processes and _____.	threads
43. Windows process design is driven by the need to provide support for a variety of OS environments.	TRUE
44. A windows process must contain at least _____ thread(s) to execute.	1
45. The _____ Windows Process Object Attribute describes who created an object, who can gain access to or use the object, and who is denied access to the object.	security descriptor