Q3-4

Due Feb 12 at 11:59pm **Time Limit** 35 Minutes Points 90

Questions 60

Instructions

Quizzes are closed books/notes and students are forbidden to get help from any source as they are taking their quiz. JMU Honor Code applies for all quizzes, projects, and exams.

T/F questions have 1 point each and Multiple-Choice questions have 2 points each. "All of the above" answers means all three possible answers in a multiple choice question.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	26 minutes	86 out of 90

(!) Correct answers are hidden.

Score for this quiz: **86** out of 90 Submitted Feb 11 at 2:33pm This attempt took 26 minutes.

A computer platform consists of a collection of hardware resources, such as the processor, main memory, I/O modules, timers, and disk drives. True False

Question 2	1 / 1 pts
For efficiency, applications should be written directly for a given platform.	n hardware
○ True	
False	

A design change in the structure or semantics of the process control block could affect a number of modules in the OS. True False

Question 4	1 / 1 pts
The process control block is the key tool that enables the 0 multiple processes and to provide for multiprocessing.	OS to support
True	
○ False	

Question 5	1 / 1 pts
It is not the responsibility of the operation of processes.	ng system to control the execution
O True	
False	
Question 6	1 / 1 pts
behavior that we would like the process True	es to exhibit.
- ITUC	
○ False	
O False Question 7	1 / 1 pts
Question 7	

Question 8 1 / 1 pts

True	
False	
Question 9	1 / 1 pts
If a system does not employ virtual memomust be fully loaded into main memory.	ry each process to be executed
True	
False	
Question 10	1 / 1 pts
A process that is not in main memory is in execution, regardless of whether or not it	
O True	
False	
Question 11	1 / 1 pts

True	
False	
Question 12	1 / 1 pts
All processor designs include a register the program status word, which contain	
True	
○ False	
Question 13	1 / 1 pts
The process control block is the least in	nportant data structure in an OS.
O True	
False	
Question 14	1 / 1 pts
A process switch may occur any time the currently running process.	nat the OS has gained control from
True	
○ False	

Question 15	1 / 1 pts
The principal function of the OS is to create, manage, and termin processes.	nate
True	
O False	

The OS performs a protection function to prevent unwanted interference between processes with respect to resources. True False

Question 17	1 / 1 pts
Windows process design is driven by the need to provoriety of OS environments.	vide support for a
True	
O False	

Question 18	1 / 1 pts
The unit of dispatching is usually referred	d to as a process or task.
True	
False	
Question 19	1 / 1 pts
In a multithreaded environment there are thread, as well as a separate control bloom	
True	
○ False	
Question 20	1 / 1 pts
It takes less time to terminate a process	than a thread.
O True	
False	
Question 21	1 / 1 pts

If there is an application or function that should be of related units of execution, it is far more efficient collection of separate processes rather than a content of the collection of separate processes rather than a content of the collection of separate processes rather than a content of the collection of separate processes rather than a content of the collection of	ent to do so as a
O True	
False	
Question 22	1 / 1 pts
An example of an application that could make us server.	se of threads is a file
True	
False	
Question 23	1 / 1 pts
Termination of a process does not terminate all t process.	threads within that
True	
False	

True	
○ False	
Question 25	1 / 1 pts
On a uniprocessor, multiprogramming does multiple threads within multiple processes.	not enable the interleaving of
O True	
False	
Question 26	1 / 1 pts
Any alteration of a resource by one thread a the other threads in the same process.	affects the environment of
True	
O False	
	1 / 1 pts

In a pure ULT facility, all of the work of thread ma the application, and the kernel is not aware of the	
True	
False	
Question 28	1 / 1 pts
As a default, the kernel dispatcher uses the policy assigning threads to processors.	of hard affinity in
O True	
False	
Question 29	1 / 1 pts
Windows is an example of a kernel-level thread a	approach.
True	
False	

the ability to effectively exploit the parallel resources available to the

а	pplication.			
	True			
	False			

Question 31	2 / 2 pts
The processor itself provides only limited support for multiple and is needed to manage the sharing of the pother resources by multiple applications at the same time.	processor and
O data	
memory	
software	
hardware	

Question 32	2 / 2 pts
"The process was placed in a suspended state by an agent; of parent process, or the OS, for the purpose of preventing its e a characteristic of a process.	
○ ready	
swapped	
suspended	
Oblocked	

Question 33	2 / 2 pts
A(n) is a unit of activity characterized by the execused sequence of instructions, a current state, and an associated stresources.	
identifier	
kernel	
process	
state	

Question 34	2 / 2 pts
We can characterize the behavior of an individual process by li sequence of instructions, referred to as a, that exthat process.	_
trace	
priority	
O process block	
state	

Question 35 2 / 2 pts

It is the principal responsibility of the of processes.	to control the execution
memory	
O dispatcher	
oprocess control block	
OS	
Question 36	2 / 2 pts
When one process spawns another, the spathe	wned process is referred to as
child process	
oparent process	
stack process	
trap process	
Question 37	2 / 2 pts
involves moving part or all of a to disk.	a process from main memory
Suspending	

Swapping

	Relocating	
	Blocking	
Incorrect	Question 38	0 / 2 pts
		state it is in secondary memory but n as it is loaded into main memory.
	Blocked	
	Ready	
	Ready/Suspend	
	Blocked/Suspend	

Question 39	2 / 2 pts
A process is in theawaiting an event.	state when it is in main memory and
Ready	
Blocked	
Blocked/Suspend	
O Ready/Suspend	

Question 40	2 / 2 pts
The OS must maintain	_ tables to manage processes.
O I/O	
memory	
file	
process	

Question 41	2 / 2 pts
The collection of program, data, stack, and attributes is referre	d to as the
oprocess location	
process image	
oprocess control block	
process structure	

Question 42	2 / 2 pts
The is the less-privileged mode.	
kernel mode	

system mode		
user mode		
control mode		

Question 43	2 / 2 pts
The contains the basic elements of a user's progrean be generated directly from a compiled object file.	am and
user-level context	
register context	
 system-level context 	
all of the above	

Question 44	2 / 2 pts
A total of process states are recognized operating system.	by the UNIX SVR4
O 15	
9	
O 21	
O 3	

Question 45	2 / 2 pts
The portion of the operating system that selects the next proce called the	ess to run is
○ trace	
oprocess control block	
dispatcher	
O PSW	

Question 46	2 / 2 pts
The traditional approach of a single thread of execution per prowhich the concept of a thread is not recognized, is referred to a	
single-threaded approach	
○ lightweight process	
○ task	
resource	

Question 47 2 / 2 pts

- TDIV	
● TRIX	
○ VISTA	
SOLARIS	
O LEOPARD	
n a multithreaded environment, a	2 / 2 pts is defined as the unit of
n a multithreaded environment, aresource allocation and a unit of protection.	
n a multithreaded environment, aesource allocation and a unit of protection.	
n a multithreaded environment, aresource allocation and a unit of protection.	
n a multithreaded environment, aresource allocation and a unit of protection.	
strand	

KLTLWPULTVAX			
O ULT	KLT		
	O LWP		
○ VAX	ULT		
	O VAX		

Question 50	2 / 2 pts
is a good example of an OS using a combined UL approach.	Γ/KLT
O TRIX	
LINUX	
Solaris	
Windows	

Question 51	2 / 2 pts
A is a single execution path with an execution stack processor state, and scheduling information.	ζ,
strand	
○ message	
thread	
Odomain	

Question 52	2 / 2 pts
are characterized by the presence of many single processes.	e-threaded
Multiprocess applications	
O Java applications	
Multiinstance applications	
Multithreaded native applications	

Question 53	2 / 2 pts
A is a dispatchable unit of work that executes seq and is interruptible so that the processor can turn to another the	•
oport	
thread	
O process	
○ token	

Question 54	2 / 2 pts
A is an entity corresponding to a user job or applic owns resources such as memory and open files.	cation that

	•	1 0 1	
thread			
process			
○ task			
○ token			

Question 55	2 / 2 pts
A is a user-created unit of execution within a process	S.
ULT	
○ KLT	
O lightweight process	
○ Kernel	

Question 56	2 / 2 pts
A Windows process must contain at leastexecute.	thread(s) to
one	
O two	
ofour	

11/24, 12.07 11/1	25 1.	C0550024. Operating bystems
	three	
Incorrect	Question 57	0 / 2 pts
	A thread enters the state, the resources are not available.	after waiting, if it is ready to run but
	Waiting	
	Standby	
	Transition	
	 Terminated 	

Question 58	2 / 2 pts
The are the fundamental entities that can be sched dispatched to run on one of the system processors.	luled and
Kernel threads	
O LWPs	
O ULTs	
Processes	

Question 59 2 / 2 pts

The	_ state is when the thread has terminated.
ZOMBIE	
STOP	
O SLEEP	
O FREE	

Question 60	2 / 2 pts
The blocked state in which the process is waiting for an e end of an I/O operation, the availability of a resource, or a another process, is the state.	
O Uninterruptible	
Interruptible	
Stopped	
Times and timers	

Quiz Score: 86 out of 90