My Courses / CSC0	41502-F21R-5046 / Final Exam / Final Exam - Part 1
Started on	•
State	
	Sunday, December 12, 2021, 7:42 PM
Time taken	
Grade	<b>47.00</b> out of 50.00 ( <b>94</b> %)
Question 1	
Complete	
1.00 points out of 1.00	
Memory compress	on is a useful alternative to paging
Calantana	
Select one:	
	compression algorithm is can achieve the best possible compression ratio.
	speed of the compression algorithm fastest.
	system has slow magnetic disks but not faster SSDs.
d. even wher	n the system has faster SSDs.
Question 2	
Complete	
1.00 points out of 1.00	
WAFL (write-anywl	nere file layout)
Select one:	
<ul><li>a. is a distrib</li></ul>	uted file system
<ul><li>b. can provid</li></ul>	e files via NFS, but not via CIFS
	stem dedicated to single user operating systems
	vide files via NFS
Question 3	
Complete	
1.00 points out of 1.00	
,	
is the algori	hm implemented on most systems.
Select one:	
a. Most frequ	ently used
b. LRU	
o. FIFO	
d. Least freq	uently used

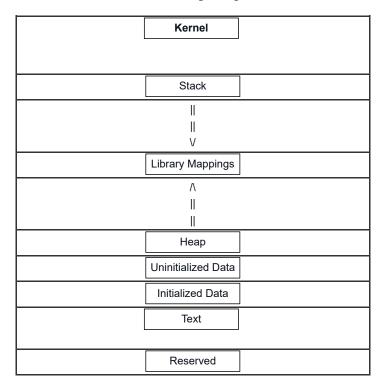
ob. False

·
Question 4
Complete
1.00 points out of 1.00
A file may be associated with several images at the same time in:
Select one:
a. file systems consistent with Windows Semantics.
<ul><li>b. file systems consistent with Session Semantics.</li></ul>
c. file systems consistent with UNIX Semantics.
d. file systems consistent with NFS (Network File System) Semantics.
Question 5
Complete
1.00 points out of 1.00
All processes in UNIX first translate to a zombie process upon termination.
Select one:
⊚ a. True

Question **6**Complete
1.00 points out of 1.00

Correctly fill in the diagram to show the Linux process memory layout.

## **Linux Process Memory Layout**



Page Tables Programs

Strings Raw Data Code

Question 7
Complete
1.00 points out of 1.00

Which algorithm evaluation method yields the best results?

## Select one:

- a. Queueing Models
- b. Deterministic Evaluation
- o. Implement new scheduler and test in real systems
- d. Simulations

12/12/21, 7:42 PM		Fina	al Exam - Part 1: /	Attempt review		
Question 8						
Complete						
1.00 points out of 1.00						
Hashed page tables a	re commonly used when handling	addresses larger	than 32 bits.			
Select one:						
a. True						
○ b. False						
Question <b>9</b>						
Complete						
1.00 points out of 1.00						
<pre>int [128] [128] da for (j = 0; j &lt; :</pre>	128; j++) i < 128; i++) [j] = 0;					[i] = 0;   will result
4096	data [i] [i+j] = 0;	2048	32768	256	data [i+j] = 0;	1024
512		8192				
312	L	0192				
Question 10						
Complete						
1.00 points out of 1.00						
13.Systems that do not Select one:  a. True b. False	ot permit access to the files of ano	ther user do not n	eed protection			
Question 11						
Complete						
1.00 points out of 1.00						

One important principle is the separation of policy from mechanism.

## Select one:

- a. True
- ob. False

Question 12
Complete
1.00 points out of 1.00
is a mobile operating system designed for the iPhone and iPad.
Select one:
a. iOS  c. t. thunk
o b. UNIX
c. Mac OS X
○ d. Android
Question 13
Complete
1.00 points out of 1.00
In a swap map in Linux
Select one:
<ul> <li>a. counter value 5 indicates that the page slot is occupied and the page is shared by five processes.</li> </ul>
<ul><li>b. counter value -1 indicates that the page slot is available.</li></ul>
c. counter value 0 indicates that the page slot is occupied by a swapped page.
od. counter value -5 indicates that the page slot was occupied by a page that was shared by five processes, and is now available.
Question 14
Complete
1.00 points out of 1.00
Which of the following options to deliver signals in multithreaded program should be applied to a synchronous signal?
Select one:
a. deliver the signal to every thread in the process
b. assign a specific thread to receive all signals for the process
<ul><li>c. deliver the signal to the thread to which the signal applies</li></ul>
<ul> <li>d. all of the other answers</li> </ul>
e. deliver the signal to certain threads in the process
Question 15
Complete
1.00 points out of 1.00
1.00 pointe det en 1.00
moving the file pointer to a specified position best describes the action of seek.

Question 16
Complete
1.00 points out of 1.00
Which of the following system calls is used to let the parent process create a child process?  Select one:  a. abort();  b. wait();  c. fork();  d. exec().
Question 17 Complete 1.00 points out of 1.00
1.00 points out of 1.00
In Pthreads, a parent uses the pthread_join() function to wait for its child thread to complete. What is the equivalent function in Win32?
Select one:
<ul><li>a. WaitForSingleObject()</li><li>b. wait()</li></ul>
c. win32_join()
○ d. join()
Question 18
Question 18 Complete
Question 18
Question 18 Complete
Question 18 Complete 1.00 points out of 1.00  Which of the following is a user interface where human fingers slide across the screen or press buttons to select choices?  Select one:
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Question 20
Complete
1.00 points out of 1.00
Which of the following are efforts to towards developing esclable, efficient tools that address the demands of consumant programming?
Which of the following are efforts to towards developing scalable, efficient tools that address the demands of concurrent programming?
Select one:
a. improving the performance of existing libraries and APIs
b. designing compilers that generate more efficient code
c. all of the other answers
<ul> <li>d. developing languages that provide support for concurrent programming</li> </ul>
Question 21
Complete
1.00 points out of 1.00
1.50 pointe dut di 1.50
An address generated by a CPU is referred to as a
Select one:
a. post relocation register address
○ b. physical address
c. Memory-Management Unit (MMU) generated address
<ul><li>d. logical address</li></ul>
■ d. logical address
<ul><li>d. logical address</li><li>Question 22</li></ul>
Question 22
Question 22 Complete
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Question 24
Complete
1.00 points out of 1.00
The instruction that causes a page fault needs to be re-executed after the fault has been handled.
Select one:
a. True
○ b. False
Question 25
Complete
1.00 points out of 1.00
The logical file system module includes the free-space manager.
Select one:
○ a. True
<ul><li>b. False</li></ul>
Question 26
Complete
1.00 points out of 1.00
Which of the following may cause a liveness failure?
Select one:
<ul><li>a. all of the other answers</li></ul>
b. an infinite loop
c. a busy waiting loop
○ d. a deadlock
Question 27
Complete
1.00 points out of 1.00
Replacement question: With segmentation in IA-32 architecture, a logical address consists of
Salast and
Select one:
a. segment number, GDT or LDT indicator, protection and offset  b. segment number, page number, GDT/LDT protection and offset
<ul><li>b. segment number, page number, GDT/LDT, protection and offset</li><li>c. segment number, page number and offset</li></ul>
<ul><li>c. segment number, page number and offset</li><li>d. segment number and offset</li></ul>
a. oogmont number and onset

Complete
1.00 points out of 1.00
The single benefit of a thread pool is to control the number of threads.
The single benefit of a tillead poor is to control the number of tilleads.
Select one:
○ a. True
Question 29
Complete
0.00 points out of 1.00
A Flash Translation Layer
Select one:
a. tracks which physical block contains only invalid pages.
b. translates user data to a format that can be written on the NVM.
c. tracks which physical block contains only valid pages.
d. tracks which physical block contains the most number of consecutive invalid pages.
0
Question 30
Complete
1.00 points out of 1.00
In a multithreaded server architecture, which of the following is used to service a new user request?
Select one:   a. a new created thread
(a) a a naw created thread
○ b. the same process for prior users
<ul><li>b. the same process for prior users</li><li>c. none of the other answers</li></ul>
○ b. the same process for prior users
<ul><li>b. the same process for prior users</li><li>c. none of the other answers</li></ul>
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<ul> <li>b. the same process for prior users</li> <li>c. none of the other answers</li> <li>d. a new created process</li> </ul> Question 31
<ul> <li>b. the same process for prior users</li> <li>c. none of the other answers</li> <li>d. a new created process</li> </ul> Question 31 Complete
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<ul> <li>b. the same process for prior users</li> <li>c. none of the other answers</li> <li>d. a new created process</li> </ul> Question 31 Complete 1.00 points out of 1.00 What is the degree of multiprogramming for a single-processor system? Select one: <ul> <li>a. 0</li> </ul>
<ul> <li>b. the same process for prior users</li> <li>c. none of the other answers</li> <li>d. a new created process</li> </ul> Question 31 Complete 1.00 points out of 1.00 What is the degree of multiprogramming for a single-processor system? Select one: <ul> <li>a. 0</li> <li>b. 3</li> </ul>

Question 32
Complete
1.00 points out of 1.00
Reentrant code is easier to share when paging is used, because
Select one:
a. All of the above.
○ b. each process can modify that code its own way.
c. the code doesn't change during execution.
○ d. the code changes are identical for each process.
Question 33
Complete
1.00 points out of 1.00
The CPU catches the interrupt and it to the interrupt handler
Select one:
<ul><li>a. dispatches</li></ul>
○ b. clears
○ c. raises
O d. catches
Question 34
Complete
1.00 points out of 1.00
Indexed allocation
Select one:
a. supports direct access
○ b. none of the other answers
o. does not suffer from external fragmentation.
<ul><li>d. all of the other answers</li></ul>

Question 35
Complete
1.00 points out of 1.00

Which of the following is a software-based solution to the critical-section problem?

Select one:

- a. test\_and\_set
- b. compare\_and\_swap
- oc. Peterson's solution
- od. all of the other answers

Question 36

Complete

1.00 points out of 1.00

What pointer is used for writing a file?

Select one:

- a. memory pointer
- o b. shared--file pointer
- o c. current-file-position pointer
- d. seek pointer

Question 37

Complete

1.00 points out of 1.00

An NFS (Network File System) is building on a RPC (Remote Procedure Call) system.

Select one:

- a. True
- b. False

Question 38

Complete

1.00 points out of 1.00

IBM's indexed sequential access method (ISAM)\_\_\_\_\_\_

Select one:

- a. use the pointers (kept in memory) of the actual file blocks
- b. uses an index file for sequential access
- c. uses a small master index (kept in memory) that points to disk blocks of a secondary index, while the secondary index blocks point to the
  actual file blocks
- d. uses the pointers (kept in memory) that points to disk blocks of a master index which points to disk blocks of a secondary index, while the secondary index blocks point to the actual file blocks

·
Question 39
Complete
1.00 points out of 1.00
Which of the following is FALSE about reapers?
Select one:
a. They implement a global page replacement policy.
b. They may swap out pages event when there are ample free frames available.
c. They may swap out a page from a process even when that process is not running.
d. They may use any page replacement algorithm to swap out pages.
Question 40
Complete
1.00 points out of 1.00
Which of the following system architectures involves multiprocessor scheduling?
Select one:
<ul> <li>a. multithreaded cores</li> </ul>
<ul> <li>○ b. heterogeneous multiprocessing</li> </ul>
c. all of the other answers
○ d. NUMA systems
e. multicore CPUs
Question 41
Complete
1.00 points out of 1.00
Which of the following computing environments place rigid time requirements on the operation of a processor or the flow of data?
Select one:
<ul><li>a. real-time embedded system</li></ul>
○ b. client-server computing
c. peer-to-peer computing
d. traditional computing

Question 42
Complete
1.00 points out of 1.00
Which of the following selects from among the processes that are in the ready queue to execute and allocate the CPU to one of them?
Select one:
○ a. job scheduler
○ b. context switch
○ c. swapping
d. CPU scheduler
Question 43
Complete
1.00 points out of 1.00
The root-partition:
The Tool-partition.
Select one:
a. contains an operating system kernel and it is not necessary to be mounted.
<ul> <li>b. does not contain the operating system kernel, but it is the first mounted file system during the boot time.</li> </ul>
oc. contains a list of the operating systems which may be booted.
d. contains an operating system kernel and it is mounted during boot time.
Question 44
Complete
1.00 points out of 1.00
What are the two components of positioning time?
What are the two components of positioning time.
Select one:
a. cylinder positioning time + disk arm positioning time
○ b. transfer time + transfer rate
c. seek time + rotational latency
○ d. effective transfer rate - transfer rate

Question 45
Complete
1.00 points out of 1.00
Which of the following programs runs all the time on the computer?
Select one:
a. assembler
○ b. text editor
○ c. compiler
d. kernel
e d. Kerner
Question 46
Complete
1.00 points out of 1.00
Commented access on he autimized by
Sequential access can be optimized by
Select one:
a. read-ahead technology
<ul><li>b. none of the other answers</li></ul>
c. all of the other answers
<ul> <li>○ d. free-behind technology</li> </ul>
Question 47
Question 47 Complete
Complete
Complete 1.00 points out of 1.00
Complete
Complete  1.00 points out of 1.00  SMP systems that use multicore processors typically run faster than SMP systems that place each processor on separate cores.
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12/12/21, 7:42 PM	Final Exam - Part 1: Attempt review
Question 49	
Complete	
0.00 points out of 1.00	
SCAN disk head scheduling offer	rs no practical benefit over FCFS disk head scheduling.
Select one:	
a. True	
ob. False	
Question <b>50</b>	
Complete	
1.00 points out of 1.00	
A file system may be mounted:	
A lile system may be mounted.	
Select one:	
a. when the operating system	em is running.
<ul><li>b. Only files systems include</li></ul>	ded in a file systems table may be mounted when the operating system is running.
<ul><li>c. during the boot time only</li></ul>	<i>t</i> .
<ul><li>d. during the boot time or when the operating system is running.</li></ul>	
■ Assignment 6 - Coding A Detection	vice Driver
Jump to	

Final Exam - Part 2 ▶



**Academic Technology**