OS 1 12/23/2018

> **OS** 1 Total points 3/20

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Section score 3/20

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✓ The principle of locality of reference justifies the use of	1/1
A. reenterable	
O B. non reusable	
C. virtual memory	
D. cache memory	✓
E. None of the above	
× Fragmentation of the file system	0/1
A. occurs only if the file system is used improperly	
B. can always be prevented	×
C. can be temporarily removed by compaction	
O. is a characteristic of all file systems	
E. None of the above	
Correct answer C. can be temporarily removed by compaction	

× In virtual memory systems, Dynamic address translation	0/1
A. is the hardware necessary to implement paging	
B. stores pages at a specific location on disk	
C. is useless when swapping is used	×
O. is part of the operating system paging algorithm	
E. None of the above	
Correct answer	
 A. is the hardware necessary to implement paging 	

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X The address of the next instruction to be executed by the current process is provided by the	0/1
a) CPU registers	
b) Program counter	
c) Process stack	×
O d) Pipe	
Correct answer b) Program counter	

×	If a process is executing in its critical section, then no other processes can be executing in their critical section. This condition is called	0/1
	a) mutual exclusion	
	b) critical exclusion	×
	c) synchronous exclusion	
	d) asynchronous exclusion	
	Correct answer a) mutual exclusion	

×	The	Storage-to-Storage instructions	0/1
	\bigcirc	A. have both their operands in the main store.	
	•	B. which perform an operation on a register operand and an operand which is located in the main store, generally leaving the result in the register, expect in the case of store operation when it is also written into the specified storage location.	×
	\bigcirc	C. which perform indicated operations on two fast registers of the machine and have the result in one of the registers	
	\bigcirc	D. all of the above	
	\bigcirc	E. None of the above	
	Co	rrect answer	
	•	A. have both their operands in the main store.	

X Restricting the child process to a subset of the parent's resources prevents any process from :	0/1
a) overloading the system by using a lot of secondary storage	×
b) under-loading the system by very less CPU utilization	
o) overloading the system by creating a lot of sub-processes	
d) crashing the system by utilizing multiple resources	
Correct answer	
o) overloading the system by creating a lot of sub-processes	

×	Cascading termination refers to termination of all child processes before the parent terminates	0/1
	a) Normally	
	b) Abnormally	×
	C) Normally or abnormally	
	d) None of the mentioned	
	Correct answer	
	a) Normally	

× The two kinds of semaphores are :	0/1
a) mutex & counting	×
b) binary & counting	
c) counting & decimal	
d) decimal & binary	
Correct answer	
b) binary & counting	

×	Add	ressing structure	0/1
	0	A. defines the fundamental method of determining effective operand addresses	
	0	B. are variations in the use of fundamental addressing structures, or so associated actions which are related to addressing.	me
	\bigcirc	C. performs indicated operations on two fast registers of the machine a leave the result in one of the registers.	nd
		D. all of the above	×
	\bigcirc	E. None of the above	
	Co	A. defines the fundamental method of determining effective operand addresses	
✓	Sup	ervisor state is	1/1
	\bigcirc	A. never used	
	\bigcirc	B. entered by programs when they enter the processor	
	\bigcirc	C. required to perform any I/O	
	()	D. only allowed to the operating system	✓
	\bigcirc	E. None of the above	

× In operating system, each process has its own	
a) address space and global variables	×
ob) open files	
c) pending alarms, signals and signal handlers	
d) all of the mentioned	
Correct answer	
d) all of the mentioned	

In UNIX, the return value for the fork system call is for the child process and for the parent process.	or 0/1
a) A Negative integer, Zero	
b) Zero, A Negative integer	×
C) Zero, A nonzero integer	
d) A nonzero integer, Zero	
Correct answer	
c) Zero, A nonzero integer	

×	With only one process can execute at a time; meanwhile all other process are waiting for the processor. With more than one process can be running simultaneously each on a different processor.	0/1
	a) Multiprocessing, Multiprogramming	×
	b) Multiprogramming, Uniprocessing	
	c) Multiprogramming, Multiprocessing	
	d) Uniprogramming, Multiprocessing	
	Correct answer	

× At a particular time of computation the value of a counting 0/1 semaphore is 7.Then 20 P operations and 15 V operations were completed on this semaphore. The resulting value of the semaphore is:

X

- a) 42
- b) 2
- c) 7
- d) 12

Correct answer

(a) d) 12

× A system program that combines the separately compiled modules of a program into a form suitable for execution	0/1
A. assembler	
B. linking loader	
C. cross compiler	×
O. load and go	
E. None of the above	
Correct answer	
B. linking loader	

× Ass	embly code data base is associated with	0/1
0	A. assembly language version of the program which is created by the code generation phase and is input to the assembly phase.	
0	B. a permanent table of decision rules in the form of patterns for matching with the uniform symbol table to discover syntactic structure.	
	7 11	×
0	D. a permanent table which lists all key words and special symbols of the language in symbolic form.	е
\bigcirc	E. None of the above	
Co	prrect answer	
	A. assembly language version of the program which is created by the code generation phase and is input to the assembly phase.	
✓ A bi	nary semaphore is a semaphore with integer values	1/1
	a) 1	✓
\bigcirc	b) -1	
\bigcirc	c) 0.8	
\bigcirc	d) 0.5	

× The systems which allows only one process execution at a time, are called	0/1
a) uniprogramming systems	
b) uniprocessing systems	
c) unitasking systems	×
d) none of the mentioned	
Correct answer	
b) uniprocessing systems	

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