Q)If several jobs are ready to run at the same time, the system must choose among them.				
Making this decision is> CPU scheduling				
Q)Time sharing system is also called as> Multitasking system				
Q)An interactive, or hands-on, computer system providescommunication between				
the user and the system> on-line				
Q)A time-shared operating system uses to provide each user with a small portion of a				
time-shared computer> CPU scheduling and multiprogramming				
Q)If several jobs are ready to be brought into memory, and there is not enough room for all of				
them, then the system must choose among them. Making this decision is called as job				
scheduling				
Q)All the jobs that enter the system are kept in> Secondary memory				
Q)Spooling concept helps to> Efficient Memory Utilization				
Q)The most important aspect of job scheduling is the ability to> Multiprogramming				
Q)The ability to continue providing service proportional to the level of surviving hardware is				
called graceful degradation. Systems that are designed for graceful degradation are also called-				
> fault-tolerant				
Q)The most common multiple-processor systems now use the> symmetric multiprocessing				
Q)asymmetric multiprocessing means> in which each processor is assigned a specific task				
Q)In distributed systems> Processes do not share memory and clock				
Q)central themes of modern operating systems Multiprogramming and Time sharing				
Q)Multiprocessor systems also called as> tightly coupled systems				
Q)Which of the following operating systems are more complex> Time-sharing				
Q)virtual memory is> a technique that allows the execution of a job that may not be				
completely in memory				
Q)The occurrence of an event is usually signaled byfrom either the hardware or				
the software> Interrupt				
Q)Software may trigger an interrupt by executing a special operation called a> Interrupt call				
Q)Event that may trigger an interrupt invalid memory access				
Q)The interrupt Architecture must also save the address of the> Interrupted instruction				
Q)If a particular site is currently overloaded with jobs, some of them may be moved to other,				
lightly loaded, sites. This movement of jobs is called> load sharing				
Q)When a computer system powered up or rebooted it needs to have an initial program to run.				
This initial program is called as> Bootstrap program				
Q)Distribute systems are also called as> Loosely coupled systems				
Q)The processors in a distributed system may vary in> Size and function				
Q)Theis responsible for moving the data between the peripheral devices> device				
controller				
Q)A typical instruction-execution cycle, as executed on a system with a von Neumann				
architecture, will first fetch an instruction from memory and will store that instruction in the>				
instruction register				
Q)Mode bit value of monitor mode is> 0				
Q)At system boot time, the hardware starts in> monitor mode				
Q)When an interrupt (or trap) occurs, thetransfers control to the operating				
system> Hardware				

Q)When an interrupt (or trap) occurs First, the operating system preserves the state of the CPU
by storing registers and the program counter. Then, it determines which type of interrupt has
occurred. This determination may require> Polling
Q)After the interrupt is serviced, the saved return address is loaded into the> Program
counter
Q)A trap is> Software generated interrupt
Q)Thereads instructions from main memory during the instruction-fetch cycle
> central processor
Q)The perform both reads and writes data from main memory during the> data-fetch cycle
Q)For a program to be executed, it must be mapped toand loaded into memory
> absolute addresses
Q)The operating system is responsible for the following activities in connection with file
management> The support of primitives for manipulating files and directories
Q)When a system call is executed, it is treated by the hardware as a-> Software interrupt
Q)The operating system is responsible for the following activities in connection with process
management> The provision of mechanisms for process communication
Q)Whenever a trap or interrupt occurs, the hardware switches from>user mode to monitor
mode
Q)whenever the operating system gains control of the computer, it is in> monitor mode
Q)System calls generally available as> Assembly language instructions
Q)The simplest approach is to pass the parameters to the operating system is> Registers
Q)transfer status information istype of system call> Communications
Q)wait event, signal event istype of system call> Process control
Q)Shell is also called as> command-line interpreter
Q)provide the interface between a process and the operating system> System
calls
Q)The most important systems programs for an operating system is the> command
interpreter
Q)Many commands are given to the operating system by> control statements
Q)The following one indicates the address of the next instruction to be executed for a particular
process> program counter
Q)The processes that are residing in main memory and are ready and waiting to execute are kept on a list called > ready queue
Q)The list of processes waiting for a particular I/O device is called a> device queue
Q)The process could be removed forcibly from the CPU, as a result of an interrupt, and be put
back in the Ready queue
Q)The unit of work in most systems> Process
Q)Each process is represented in the operating system by a> process
control block
Q)set process, file, or device attributes istype of system call> Information
maintenance
Q)attach or detach remote devices is type of system call> Communications
Q)An LWP contains a process control block with register data, accounting information, and
> memory information
, a memory intermetion

Q)A user-level thread needs only a stack and> one program counter					
Q)A kernel thread has only a small data structure and> A stack					
Q)Selecting processes from mass storage device(DISK) and place those processes in memory for					
execution will be done by> Long term scheduler					
Q)Theselects processes from memory among the processes that are ready					
to execute, and allocates the CPU to one of them> Short term scheduler					
Q)The user-level threads are supported by> Light weight processes					
Q)Each light weight process is connected to> exactly one kernel-level thread					
Q)If all processes are CPU bound, the I/O waiting queue will almost always be> Empty					
Q)In time sharing systemsscheduler may be absent> Long-term					
O)If all processes are I/O bound, the ready queue will almost always be ->> Empty					
Q)shared-memory and message-system communication schemes are> not					
mutually exclusive					
Q)Switching the CPU from one process to another by saving the state of the old process is					
known as> Context switch					
Q)The degree of multiprogramming is controlled byscheduler> Long-term					
Q)The degree of multiprogramming means The number of processes in					
the memory					
Q)The dispatcher is the module that gives control of the-> CPU to the process selected by the					
short-term scheduler					
Q)The interval from the time of submission of a process to the time of completion					
is> Turn around time					
Q)Whenever the CPU becomes idle, the operating system must select one of the processes in					
theto be executed=> ready queue					
Q)Time sharing systems introducedscheduler> Medium-term					
Q)A process is swapped out and swapped in later by thescheduler> Medium-term					
Q)Process execution consists of a cycle of> CPU execution and I/O wait					
Q)Process execution begins with a> CPU burst					
Q)scheduling is used frequently in long-term scheduling> SJF					
Q)Although the SIF algorithm is optimal, it cannot be implemented at the level of					
Short term scheduling					
Q)The average waiting time under policy is optimal> SJF					
Q)time from the submission of a request until the first response is produced is					
called> Response time					
Q)The implementation of the FCFS policy is easily managed with a> Queue					
Q)The average waiting time under policy is quite long> FCFS					
Q)The FCFS scheduling algorithm is> Always Non preemptive					
Q)A context switch is applied in> Round Robin					
Q)At one extreme, if the time quantum is very large (infinite), the RR policy is the same as the					
> FCFS					
Q)A time quantum is generally from> 10 to 100 milliseconds					
Q)The SJF algorithm is> may be either preemptive or non preemptive					
Q)Equal-priority processes in priority scheduling algorithm are scheduled in					

manner> FCFS				
Q)A major problem with priority scheduling algorithms is> Starvation				
Q)A solution to the problem of indefinite blocking is> Aging				
Q)In multilevel queue-scheduling algorithm the foreground queue might be scheduled				
by> RR				
Q)In multilevel queue-scheduling algorithm the background queue might be scheduled				
by				
Q)If a process uses too much CPU time, it will be moved to a> lower-priority				
queue				
Q)If the time quantum is very small (say 1 microsecond), the RR approach is called				
> processor sharing				
Q)processes are permanently assigned to a queue on entry in				
algorithm> Multi level queue				
Q)In scheduling processes can move from one queue to another:> Multi leve				
feedback queue				
Q)In scheduling processes cannot move from one queue to another> Multi				
level queue				
Q)If process P is executing in its critical section, then no other processes can be executing in				
their critical sections is called> Mutual exclusion				
Q)A semaphore is> An integer variable				
Q)A solution to the critical-section problem must satisfy the following three 'Requirements>				
Mutual exclusion, progress, bounded waiting				
Q)A non preemptive priority scheduling algorithm will simply put the new process at the head				
of the> ready queue				
of the> ready queue Q)The number of processes that are completed per time unit, called> Throughput				
Q)A situation like this, where several processes access and manipulate the same data				
concurrently, and the outcome of the execution depends on the particular order in which the				
access takes place, is called a> race condition				
Q)In critical section> process may be changes common variables				
Q)Semaphores are used to solve the problem of				
synchronization				
Q)Mutual exclusion problem occurs between> Among processes that share				
resources				
Q)Only those processes that are not executing in their remainder section can participate in the				
decision of which will enter its critical section next is called> Progress				
Q)A semaphore can be accessed through> Wait() and signal()				
Q)The classical definition of signal is> signal(S): S := S + 1;				
Q)Disallowing interrupts in uniprocess systems we can remove> Critical-				
section problem				
Q)If the machine supports the Test-and-Set instruction, then we can implement mutual				
exclusion by declaring a Boolean variable lock, initialized to> false				
Q)The critical-section problem could be solved simply in a if we could disallow				
interrupts to occur while a shared variable is being modified> uniprocessor environment				
Q)To enter into critical section every process sets its flag to> True				

Q)An algorithm solves critical section p	problem for n processes is	> Bakery
Q)Bakery algorithm implemented for_	> Distril	outed environment
Q)Features of	can make the programming to	ask easier and improve
system efficiency> Hardware		
Q)Each semaphore has an integer valu	e and a list of	> Processes
Q)Aoperation remov	es one process from the list of	waiting processes>
signal		
Q)The process is restarted by a	operation> wakeup	
Q)If the machine supports the Swap in	struction, then	can be Provided>
mutual exclusion		3-3
Q)Busy waiting wastes> CPU cycles		
Q)Spinlocks are useful in	> Multi processor sys	stems
Q)The only state transition that is initial	ated by the user process itself i	s
Block		
Q)A solution to the Dining Philosopher	회원 - " 그녀는 살이 경영하는 것 없다"라면 되었는 그 나에 하나 이 경영에 사고하는 하는 내 이 일을 하고 하를 모습니다고 말하면 하나 없다.	The state of the s
particular philosopher picks up the le	ft fork before the right fork, ar	id that all other
philosophers pick up the right fork be	A SERVICE DE PRESENTA DE PROPOSITION DE LA COMPANION DE LA COM	The second second
Q)A counting semaphore was initialize		
operations were completed on this ser		
Q)A critical section is a program segme		
Q)The operation suspe		
Q)Theoperation resu		
Q)The list of waiting processes can be		eld in each
> process co		NA
Q)One way to add and remove process		s bounded waiting, would
be to use a> FIFO q		8
Q)At a particular time of computation	The second secon	THE STORY OF THE STORY OF
operations and 15 V operations were	ompleted on this semaphore.	he resulting value of the
semaphore is> 2		WY SHEET
Q)Spinlocks are intended to provide _		aiting
Q)A mutex> must be accessed from		120 W
Q)Let m[0]m[4] be mutexes (binary se	maphores) and P[0] . P[4] be pr	ocesses. Suppose each
process P[i] executes the following:wa		;release (m[i]);
release (m[(i+1)mod 4]); This could can		LINE WATER WY OF
Q)Which of the following need not need		switch between
processes? Translation look-aside k		100 N 1000 N 100
Q)Let the time taken to switch between		
time taken to switch between two pro		owing is TRUE?> t1 < t2
Q)Semaphores are mostly used to imp	lement> IPC mechanisms	