5
ensures that an update to a cache is reflected immediately in other caches. (2 Points)
Cache update
Cache reflection
Cache decoding
Cache coherency
6
in multiprocessor systems means that failure of one processor will not halt the system (2 Points)
Increased throughput
Economy of scale

Increased reliability

In, one node is in hot standby mode monitoring the active server. (2 Points)

- asymmetric clustering
- symmetric clustering
- asymmetric processing
- symmetric processing

8

In dual mode operation, privileged instructions can execute only in
(2 Points)

- asymmetric mode
- application mode
- kernel mode
- user mode

A multicore system

cloud computing

(2 Points)

- peer-to-peer computing
- client-server computing
- batch computing

12

...... has well defined, fixed time constraints. (2 Points)

- A distributed system
- A single-processor system
- A multiprocessor system
- A real-time system

The operating system provides application programmers with to invoke services. (2 Points)

- O DMA
- RPC
- IPC
- API

14

...... system calls support open, close, read, write, reposition file operations. (2 Points)

- Process control
- File management
- Device management
- Information maintenance

Using the makes the OS difficult to implement and extend. (2 Points)

- monolithic Approach
- layered Approach
- micro-kernel Approach
- hybrid approach

stack section

A process is said to be in a state if it is being created. (2 Points)

- new
- nunning
- waiting
- oready

20

Context switch saves the current context of the current process into its
(2 Points)

- O IPC
- RPC
- O DMA
- PCB

A process shares data with other executing processes. (2 Points)

- independent
- cooperating
- O batch
- interactive

22

...... contains processes waiting for a certain event to occur. (2 Points)

- ready queue
- o wait queue
- device queue
- system queue

In the one-to-one model, thread management is done by
(2 Points)

- the operating system
- a thread library
- RPC mechanisms
- IPC mechanisms

In the the entire process will block if a thread makes a blocking system call. (2 Points)

- many-to-one
- O one-to-one
- many-to-many
- one-to-many

28

...... is a synchronous version of the thread pool. (2 Points)

- Blocking send
- Blocking receive
- Implicit fork-join
- C Explicit fork-join

In cancellation, the target thread periodically checks whether it should terminate. (2 Points)

- Deferred
- Cascading
- Synchronous
- Asynchronous

30

The is a segment of code, in which the process may be accessing and updating shared data.

(2 Points)

- entry section
- exit section
- critical section
- remainder section

is a deadlock condition and it means that at least one resource must be held in a non-shareable mode. (2 Points)	
Mutual exclusion	
Hold and wait	
O No preemption	
Circular wait	
Deadlockensure that at least one of the necessary conditions for a deadlock to occur cannot hold. (2 Points)	
avoidance	
prevention	
detection	
recovery	

instructions such as Test-and-Set execute as one uninterruptible unit. (2 Points)
○ Blocking
O Privileged
O Automatic
Atomic
A binary semaphore behaves similarly to (2 Points)
o mutex locks
o race condition
waiting locks
signal locks

CPU register

-	,
3	
_	

...... scheduling allows for stopping a running process before it completes its CPU burst. (2 Points)

- preemptive
- non-preemptive
- nound-robin
- asynchronous



Question

Problem 1

Consider the following set of processes with the specified arrival time, priority, and length of CPU burst given in milliseconds

Process	Arrival Time	Burst Time	Private
Pi	.0	5	2
Pi	2		3
P.			3
P.	7	1	1

Enter your answer

Problem 1

Consider the following set of processes with the specified arrival time, priority, and length of CPU burst given in millisevensis

Program	Arrival Time	Burst Time	Princity
P,	0	.5	2
P_2	2		3.
P.		- 4	3
r.	7		

Enter your answer



In problem 1, if preemptive priority scheduling is used, the turnaround time of P2 will be (2 Points)

- O 18
- O 9
- 11
- 0

...... scheduling allows for stopping a running process before it completes its CPU burst. (2 Points)

- preemptive
- non-preemptive
- nound-robin
- asynchronous



Question

Problem 1

Consider the following set of processes with the specified arrival time: practity, and length of CPU lorset given in millionizeds.

Pharm	Arrival Time	Burst Time	Printing
P.	8	3	2
P,	1		3
r.			3
P.	7	1	1

- O base register
- relocation register
- limit register
- page-table base register

...... is a contiguous allocation method that produces the smallest leftover hole. (2 Points)

- First Fit
- Best Fit
- Worst Fit
- Next Fit

Paging divides the physical memory into blocks of the same size called
(2 Points)

- pages
- frames
- blocks
- segments

45

Memory compaction is a possible solution for the problem. (2 Points)

- external fragmentation
- internal fragmentation
- swapping
- segmentation

46
occurs when the allocated memory is slightly larger than the requested memory. (2 Points)
Overflow
Compaction
Internal fragmentation
External fragmentation
47
Referencing a page that is not currently in memory results in (2 Points)
O a deadlock
a page fault
O page starvation
O page fragmentation

	If there is no frame in memory, a algorithm can be used to select a victim frame. (2 Points)
С) page-fault
С) page-fragmentation
•	page-replacement
С) page-starvation
	In frame allocation, the number of memory frames allocated to a process depends on its size. (2 Points)
С) equal
С	priority
•	dynamic
	proportional

processes information in the file in order, one record after the other. (2 Points)
Sequential access
Direct access
Random access
Relative access
The records information (e.g. name, location, size, and type) for all files on a volume. (2 Points)
device directory
volume scanner
file locator
random-access list



- cooperator
- universe
- coordinator
- subgroup

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In problem 1, if preemptive priority scheduling is used, the response time of P2 will be
(2 Points)

- **O** 3
 - \bigcirc 1
- \bigcirc 0
- 2

42

The contains the length of the addresses allocated to the process. (2 Points)

- base register
- relocation register

- \bigcirc 1



In problem 1, if preemptive priority scheduling is used, the waiting time of P2 will be
(2 Points)

- O 13