國立臺灣科技大學 考試科目: 7年紫光光光

1 00 學年度第 | 學期 1 2 日本名称 1 二五在在城边传

學期格化的數試命題用紙

/ H# 3 H

(2)	algorithm(the time quantum = 4) (5 %)
the Round-Robin CPU scheduling	(2) Please draw the Gantt chart of the Roun
	scheduling algorithm.(5%)
rst-Come, First-Serve CPU	(1)Please draw the Gantt chart of the First-Come, First-Serve CPU
ution.	ready queue immediately after I/O execution.
vices and processes re-enter the	Assumed that there're sufficient I/O devices and processes re-enter the
	units)
ime units) → CPU burst (3 time	burst (2 time units) →I/O burst (4 time units) → CPU burst (3 time
) burst (2 time units) → CPU	■ Pc: CPU burst (3 time units) → I/O burst (2 time units) → CPU
	■ Pb: CPU burst (6 time units)
	(4 time units)
burst (5 time units) → CPU burst	■ Pa: CPU burst (5 time units) → I/O burst (5 time units) → CPU burst
	are as follows:
). Their execution stat sequences	processor system at 0, 3, 4(time unit). Their execution stat sequences
e ready queue of a single	2. Three process Pa, Pb, Pc arrive at the ready queue of a single
	scheme.(10%)
ow to implement the protection	memory/CPU protection? Explain how to implement the protection
an O.S. needs to implement	1. What is dual-mode operation? Why an O.S. needs to implement

4 4	
35 35	
W.E.)	
日上午 下午第	
311	
8	
	l
井	
	l
章 章	
京 莊	

國立臺灣科技大學 考政科目: | 子菜完成

學年度第 1 學期 13 七分賽試合題用紙

100

* 2 M # 3

	access time. (10%)	
1	respectively. If the hit ratio for TLB is 80%, calculate the effective	
	consulted. Access time for TLB and memory is 10ns and 100ns	
	operation is failed, then the page table (one level) in memory is	
	5. Assume for each memory reference, the TLB is first consulted. If the	
	resources. Show that the system is deadlock-free. (10%)	
	are shared by three processes, each of which needs at most two	
	4. Consider a system consisting of four resources of the same type that	
	Thread 1:{for(j=0; j<10; j++) x=x-1;}	
	Thread 1:{for(i=0; i<10; i++) x=x+2;}	
	is initialized to 07 (10%)	
	can take on during the execution of the following threads; assuming x	
1	3. Consider the following program fragments. What are the values that x	
	fi de la casa de casa de la casa	
	THE RESERVE	

國立安院科技大學 考試科目: (字等學系)

100 學年成第 | 學 (中大年 日大年年 日大年末 日大年末 日大年末 日

學期情化學試會題用紙

3 ## 3

|--|