第3次测试 答题版本 2023.12.14 11:25 试卷得分 100

1. 考虑页面置换算法,系统有m个页帧供调度,初始时全空;引用串长度为p,包含了n个不同的页面,无论用什么缺页算法,缺页次数不会少于。
单选题 (10 分) 10分
A. m
B.p
C. n
D. min(m,n)
正确答案: C
2. In a virtual memory system ,
单选题 (10 分)   10分
A. MMUs convert physical addresses to virtualaddresses during execution
B. determining how to map virtual addresses tophysical addresses is of great importance
C. when the system is ready to run a process,the system loads the process's code and data from main memory into cache
D. each virtual address space is much smallerthan the real address space
正确答案: B
3. 总体上说,请求分页(demand-paging)是个很好的虚拟内存管理策略。但是,有些程序设计技术并不适合于这种环境。例如,。
单选题 (10 分)  10分
A. 矢量运算
B. 堆栈
C. 二分法搜索
D. 线性搜索
正确答案: C
4. If a system use the banker's algorithm to avoid deadlock, which of the following statement is correct? 单选题 (10 分)  10分
A. If the system is in an unsafe state, it must cause a deadlock.

 $\ensuremath{\mathsf{B}}.$  If the system is in a safe state, it may cause a deadlock.

C. If the system is in an unsafe state, it may cause a deadlock.	
D. If the system is in a safe state, it must cause a deadlock.	
正确答案: C	
5. A computer system has a device with n mutually exclusive instances. Three concurrent processes require 3 To ensured eadlock not to occur, what is the minimum number n?	3,4
单选题 (10 分)   10分	
A. 12	
B. 9	
C. 10	
D. 11	
正确答案: C	
6. In a paging memory management system, there is a pagetable as following:	
Page No. Frame No.	
0 2	
1 1	
2 6	
3 3	
4 7  If the page size is 4KB, thenpaging address hardware will convert logical address 12388 into physicaladdress	
单选题 (10 分) 10分	
A. 4196	
B. 24676	
C. 12388	
D. 9292	
正确答案: C	

and 5 instances.

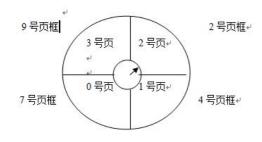
7. 设某计算机的逻辑地址空间和物理地址空间均为64KB,按字节编址。若某进程最多需要6页(Page)数据存储空间,页的大小为1KB,操作系统采用固定分配局部置换策略为此进程分配4个页框(PageFrame)。在时刻260前的该进程访问情况如下表所示(访问位即使用位)。

页号 页框号 装入时刻 访问位

0	7	130	1
1	4	230	1
2	2	200	1
3	9	160	1

当该进程执行到时刻260时,要访问逻辑地址为17AFH的数据。请回答下列问题:

- (1) 该逻辑地址对应的页号是 ① ?
- (2) 若采用先进先出(FIFO)置换算法,该逻辑地址对应的物理地址是 ② H(**填写4位十六进制数,且字母为大写A、B、C、D、E、F**)?
- (3) 若采用时钟(CLOCK)置换算法,该逻辑地址对应的物理地址是 <u>③</u> H?(**填写4位十六进制数,且字母为大写A、B、C、D、E、F**)(设搜索下一页的指针沿顺时针方向移动,且当前指向2号页框,示意图如下。)



填空题 (30分) 30分 (请按题目中的空缺顺序依次填写答案)

1	5
2	1FAF
3	0BAF

正确答案:

- 1)5
- (2) 1FAF
- (3) 0BAF

BAF

8. In a demanding paging system, thesize of a page is 4KB. A process accessthe logical address 12345 (0x3039) will \_\_\_\_\_ if the page table is as thefollowing:

Page #	Frame #	Validit
0	3	V
1	4	V
2	2	V
3	_	- 1

单选题 (10 分) 10分

- A. access physical address 3\*4096+57
- B. accessphysical address 2\*4096+57
- C. accessphysical address 4\*4096+57
- D. causea page-fault interrupt

