#1 Points possible: 2	
	ch of the following storage device does not belong to the tertiary storage cture?
CD	○ CD-ROM
	DVD
	Hard disks
	O Tapes
#2 Po	ints possible: 2
Whi	ch provides high reliability inexpensively?
	O RAID 0
	O RAID 2
	O RAID 4
	• RAID 5
#3 Po	ints possible: 2
Which kind of swap space is fastest?	
	A swap file on FAT
	○ A swap file on ext3
	A partition with sophisticated file system functions
	A raw partition
#4 Po	ints possible: 2
UNI	K treats I/O devices as
	o regular files
	 directory files
	o indexed files
	• special files

#5 Points possible: 2	
present a uniform device-access interface to the I/O subsystem, much as system calls provide a standard interface between the application and the operating system.	
○ Kernel	
Device drivers	
O Bus	
Operating system	
#6 Points possible: 2	
The I/O control of disk devices mainly adopt following method.	
opolled	
○ interrupt	
○ channel	
• DMA	
#7 Points possible: 2	
Disk access time does not include	
o seek time	
orotational latency time	
o read/write time	
CPU scheduling time	
#8 Points possible: 2	
is used to cope with the speed mismatch between CPU and I/O devices.	
Buffering	
O parallel	
○ caching	
semaphore	
#9 Points possible: 2	

In the disk scheduling algorithm, which algorithm may change the arm's movement direction at any moment?

- C-SCAN
- SSTF
- SCAN
- onone of the above

#10 Points possible: 0

- 45、(7分)假设计算机系统采用CSCAN(循环扫描)磁盘调度策略,使用2KB的内存空间记录16384个磁盘块的空闲状态。
- (1) 请说明在上述条件下如何进行磁盘块空闲状态管理。
- (2)设某单面磁盘旋转速度为每分钟6000转。每个磁道有100个扇区,相邻磁道间的平均移动时间为1ms。若在某时刻,磁头位于100号磁道处,并沿着磁道号增大的方向移动(如下图所示),磁道号请求队列为50、90、30、120,对请求队列中的每个磁道需读取1个随机分布的扇区,则读完这4个扇区总共需要多少时间?要求给出计算过程。
- (3)如果将磁盘替换为随机访问的Flash半导体存储器(如U盘、SSD等),是否有比CSACN更高效的磁盘调度策略?若有,给出磁盘调度策略的名称并说明理由;若无,说明理由。

