1. Disk access time does not include _____ .

单选题 (9 分) 9分

A. CPU scheduling time

B. read/write time

C. seek time

D. rotational latency time

2. Suppose that a disk drive has 5000cylinders, numbered 0 to 4999. The drive is currently serving a request atcylinder 143, and the previous request was at cylinder 125. The queue ofpending requests, in FIFO order, is
86, 1470, 913, 1774, 948,1509, 1022, 1750, 130
Starting from the current head position,what is the total distance (in cylinders) that the disk arm moves to satisfyall the pending requests, for each of the following disk-scheduling algorithms?

a. FCFS: The total seek distanceis ___①___ .

b. SSTF: The total seek distanceis ___②___ .

c. SCAN: The total seek distanceis ___③___ .

d. LOOK: The total seek distanceis ___④___ .

e. C-SCAN: The total seek distanceis ___⑤___ .

f. C-LOOK: The total seek distanceis ___⑥___ .

填空题 (19 分) 19 分 (请按题目中的空缺顺序依次填写答案)

①	7081
②	1745
③	9769
④	3319
⑤	9985
⑥	3363

3. _____ is used to cope with the speedmismatch between CPU and I/O devices.

单选题 (9 分) 9分

A. buffering

B. semaphore

C. parallel

D. caching

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

单选题 (9 分) 9分

A. C-SCAN

B. SCAN

C. none of the above

D. SSTF

5. Linux treats I/O devices as _____.

单选题 (9 分)   9分

A. directory files

B. regular files

C. special files

D. indexed files

6. Which of the following storage device does not belong to the tertiary storage structure?

单选题 (9 分)   9分

A. DVD

B. Tapes

C. Hard disks

D. CD-ROM

7. The I/O control of disk devices mainlyadopt following method.

单选题 (9 分)   9分

A. DMA

B. polled

C. channel

D. interrupt

8. Which kind of swap space is fastest?

单选题 (9 分)   9分

A. A swap file on FAT

B. A raw partition

C. A partition with sophisticated file systemfunctions

D. A swap file on ext3

9. _____ present a uniform device-accessinterface to the I/O subsystem, much as system calls provide a standardinterface between the application and the operating system.

单选题 (9 分)   9分

A. Device drivers

B. Kernel

C. Operating system

D. Bus

10. Which provides high reliabilityinexpensively?

单选题 (9 分)　9分

A. RAID 0

B. RAID 4

C. RAID 2

D. RAID 5