

ICS 424-Quiz #1 - (3%)

Time: 15 minutes

Student ID: _____

Student Name: _____

1. Assume a disk with the following characteristics

- Sector size: 512 bytes
- Number of sectors per track: 10
- Number of tracks per surface: 200
- Number of cylinders: 200
- Double sided disks: 10
- Rotational speed: 2400
- Average seek time: 30 ms

A. What is the capacity of the disk?

B. If we assume that one block equals to one sector, then what is the average time to read a block?

2. Why RAID 5 is more efficient than RAID 4?