Digital Storage

1. Explain why it might not be a good idea to keep a floppy disk next to a magnet.
2. How can you check what the sector size is on your hard drive?
3. What is flash memory? What type of data storage is flash memory?
4. Convert the following CHS Address to the corresponding cylinder, head and sector.  
   a) **0x3BEF2A**  
     
   b) **95AC7Dh**
5. Convert the following cylinder, head, and sector position to a CHS Address.  
     
   a) **Cylinder: 1010 Head: 53 Sector: 60**   
     
     
   B) **Cylinder: 942 Head: 235 Sector: 20**
6. The maximum number cylinders, heads and sectors of a flash drive are 849, 128 and 63 respectively. Please calculate disk size in GB (4096 bytes per sector).
7. One partition of a hard disk has 102097152 sectors (LBA addressing). Calculate partition size in GB if there are 1024 bytes per sector. Convert the disk capacity to MB.