ASSIGNMENT- 2

Subject Code: CS341 Submission date: 03/04/2019

- Q1) Consider a disk pack with 16 surfaces, 128 tracks per surface and 256 sectors per track. 512 bytes of data are stored in a bit serial manner in a sector. Then what will be the capacity of the disk pack and the number of bits required to specify a particular sector in the disk?
- Q2) Consider a disk system with 100 cylinders. The requests to access the cylinders occur in following sequence:

Assuming that the head is currently at cylinder 50, what is the time taken to satisfy all requests if it takes 1ms to move from one cylinder to adjacent one and shortest seek time first policy is used?

Q3) Suppose a disk has 201 cylinders, numbered from 0 to 200. At some time the disk arm is at cylinder 100, and there is a queue of disk access requests for cylinders 30, 85, 90, 100, 105, 110, 135 and 145. If Shortest-Seek Time First (SSTF) is being used for scheduling the disk access, the request for cylinder 90 is serviced after servicing how number of requests?