IIIT-Allahabad IMDM Assignment Questions Assignment 4: Location and Hand-off Management

- 1. What do you understand by the term "location management"? Describe the steps of a location manager to identify the location of a mobile unit? Assume the HLR is stored at a central location?
- 2. Investigate how data flows through a wireless channel. If a data stream is continuously dispatched on the same channel, then the channel can be thought of as a storage media for the data stream. Thus the broadcast server could continuously send all its data on a set of channels and eliminate the disk altogether. Is this storage model acceptable to you'? If not, then what problems do you see in this model?
- 3. How the use of major and minor index improves the data access from a broadcast? Do you think that creating more levels of indexing would further improve data access? Explain your answer and give an example to support your answer.
- 4. Prove hat $N = i^2 + ij + j^2$, where N is the cell cluster size, i is the number of cells to be traversed in i coordinate, j is the number of cells to be traversed in j coordinate from the originating cell. j coordinate is 60' from i coordinate.
- 5. Clearly explain the difference between a hard and a soft handoff. Explain different ways of processing a handoff.
- 6. In how many different modes a cell phone may enter? Explain the activity of the cell phone in each of these modes.