

Mobile Computing Assignment - I

1. Discuss the principle and operations of cellular wireless networks in detail.
2. What is the principle of frequency reuse in context of cellular network, list the ways of increasing the capacity of a cellular system?
3. What is hidden and exposed terminal problem?
4. Explain how multiple access with collision avoidance scheme avoid hidden and exposed terminal problem?
5. Explain how mobile terminated call works detailing the role of HLR and VLR.
6. What are the modifications required to an existing GSM network to be upgraded to GPRS? Explain with the help of a neat diagram.
7. What is hand over? Draw a model to illustrate the effects of handover.
8. Explain in detail about the motivation for a specialized Medium Access Control (MAC) layer.
9. Compare the mechanisms of SDMA, TDMA, FDMA and CDMA.
10. Explain clearly the various schemes for Medium Access Control with Time Division Multiple Access (TDMA).
11. Explain the security algorithms in GSM.

Submit on: 20th August, 2018.