

WIRELESS & MOBILE COMMUNICATION

(18CSE458T)

Assignment-1

1. If a total of 33 MHz of bandwidth is allocated to a particular FDD cellular telephone system which uses two 25 KHz simplex channels to provide full duplex voice and control channels, compute the number of channels available per cell if a system uses (i) 4 cell reuse (ii) 7 cell reuse and (iii) 12 cell reuse.
2. What is the purpose of modulation in wireless communication? Provide examples of different modulation techniques.
3. Describe the difference between FDMA, TDMA, and CDMA in terms of multiple access techniques.
4. What is the role of base stations in cellular networks?
5. Explain the terms 'uplink' and 'downlink' in the context of wireless communication.