

ECE440: ADVANCED WIRELESS COMMUNICATION SYSTEM

Set B CA: 3 M.Marks:30

Each Question Carries 5 marks.

- Q-1 Discuss Downlink Channel Capacity CSIR ONLY for Fast fading channel?
- Q-2 Draw and Explain the model for MIMO system with mathematical analysis.
- Q-3 Discuss Time sharing strategy to calculate the optimal data rate between two users.
- Q-4 What are the Impact of Multiple Users in Fast fading channel, Discuss it with proper example.
- Q-5 Explain the concept of IFFT/FFT for OFDM, In OFDM system if number of Tabs L=25 and N=256 subcarriers, SNR=30 dB, calculate BER?
- Q-6 Discuss Superposition coding principle for calculate the optimal data rate for two users and compare it with conventional CDMA.

