

## **ASSIGNMENT-III**

### **PART-A**

- 1. What is meant by QPSK?**
- 2. Define M-ary transmission system**
- 3. What is linear modulation?**
- 4. What is the advantage of MSK over QPSK?**
- 5. Mention any two criteria for choosing a modulation technique for a specific wireless application?**
- 6. Write the applications of MFSK and OFDM**
- 7. Draw the structure of generic optimum receiver?**
- 8. Define cyclic prefix.**

### **PART-B**

- 1. Explain QPSK transmitter and receiver with signal space diagram and give an expression for spectral efficiency.**
- 2. Explain MSK transmitter and receiver with signal space diagram and give an expression for spectral efficiency.**
- 3. Discuss about the performance of digital modulation in fading channels.**
- 4. Explain GMSK transmitter and receiver with signal space diagram and give an expression for spectral efficiency.**