

Assignment -1 (Unit – 1)

Attempt all questions.

1. What are the key advantages of wireless communication?
2. What are the challenges in wireless communication?
3. What is the role of modulation in a wireless communication system?
4. What is the radio frequency spectrum?
5. What are the main frequency bands used for radio communication?
6. What are the main types of noise in communication systems?
7. Why is modulation necessary in communication systems?
8. What are the common modulation techniques used in communication systems?
9. Define: -
 - amplitude modulation (AM)
 - frequency modulation (FM)
 - Amplitude Shift Keying (ASK)
 - Frequency Shift Keying (FSK)
 - Binary Phase Shift Keying (BPSK)
 - Quadrature Phase Shift Keying (QPSK)
10. What are the advantages of analog modulation schemes like AM, FM, and PM?
11. What are the main types of multiple access techniques?
12. What are the two primary types of spread spectrum modulation?
13. What are the advantages of Direct Sequence Spread Spectrum?