

Assignment - 1

- Q.1. What are the basic constituents of a communication system? Draw the block diagram of a communication system and explain the function of each block?
- Q.2. Explain the need for modulation in a communication system.
- Q.3. What are the limitations of a communication systems?
- Q.4. Explain the difference between Analog and Digital Communication.
- Q.5. Write the expressions for AM wave and envelope of AM wave.
- Q.6. Define Modulation index.
- Q.7. What is meant by multiplexing?
- Q.8. How a DSB-SC signal can be obtained?
- Q.9. What is Amplitude Modulation, derive an expression for single tone amplitude modulated wave and also draw its frequency spectrum.
- Q.10. Explain the low level and high level amplitude modulation with help of diagrams.
- Q.11. Discuss these
(a) Square law diode
(b) Envelope Detector