**SHARDA UNIVERSITY**

**SCHOOL OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF ECE AND EEE**

**ANALOG AND DIGITAL COMMUNICATION (EEE327)**

**QUIZ 1**

1. What is modulation? Why modulation is needed?
2. Explain Amplitude Modulation with neat diagrams.
3. A 600 W is modulated to a depth of 60%. Find the total power. Assume modulating signal is sinusoidal.
4. A modulating signal 20 cos(2x 103t) is used to modulate a carrier signal 40 cos(2x 105t). Determine modulation index, frequency of the sideband components and their amplitude. What will be the bandwidth of the modulated signal?