



Department: EEE

Semester: 2nd

Session:

Section:

Total Marks: 50Obtain Marks:

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5.	Study of Clipper and Clamper Circuits	<p>1. Description: This experiment explores two ways to shape signals. Clippers cut off parts of a wave; Clampers shift the entire wave up or down (adding DC offset).</p> <p>2. What to do: Build a clipper to remove signal peaks. Build a clamper to shift the signal's baseline. Use an oscilloscope to compare inputs and outputs.</p> <p>3. What to use: Diodes, Resistors, Capacitor, Signal Generator, DC Bias Supply, Oscilloscope.</p> <p>4. Outcome: The ability to modify signal amplitude and baseline to protect circuits or shape waveforms.</p>										
6.	Study of BJT as a Switch	<p>1. Description: This experiment shows how a BJT can function as a fast, reliable "electronic switch" with no moving parts.</p> <p>2. What to do: Drive the transistor between the "Cut-off" (OFF) and "Saturation" (ON) regions. Use an input signal to control a load like an LED.</p> <p>3. What to use: NPN Transistor, DC Power Supply, LED (as a load), Current-limiting Resistors, Input Switch.</p> <p>4. Outcome: A circuit that uses</p>										

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