

Module 2: CMOS Characteristics

4. (i) Realize an inverter using CD 4007 IC

(ii) Study the transfer characteristics of the inverter by varying the input in steps of 0.5v and measure both input and output voltages with the help of oscilloscope.

(iii) Display the transfer characteristic by applying a saw-tooth signal at the input (use X-Y mode of the Oscilloscope). Plot the characteristics on a graph paper.

(iv) Measure the delay of the inverter using ring oscillator concept.