Experiment No: 14

Name: synchronous counter.

Aim: - construct and test synchronus counter
Objetives: to study, dosign, donstruct and the

Mory:

Construct a synchronus 3- 51't sinory country and check 1t's opposition.

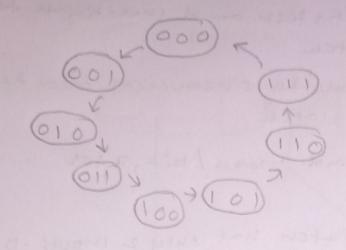
However, with the synchromus counter, the external Clock signal is connected to the clock input of every individual pliptop within the counter so that all of the hip-top are clocked together simultanionsly (in parallel) at the same the giving a fixed three relationship. In other words changes in the output occurs in synchronisation with the clock sighal the regult of this synchronistic is that all the individual output bits changing state at excapt the same the in response to the common clock sighal with in response to the common clock sighal with no ripple effect and terfore no propagation delay.

Procedure.

connections are made as prite circuit

observe te output compane it anim

synchronus crecuit are constructed and their truth tables are verified.



truth table flip-flop Input next state. TAZ TAI Tho A 2 A1 Ao AL A Ao 0 1 0 0 0 1 0 0 1 0 0 0 1 0 0 1 1 0 0 0 0 0 1 0 0 1 0 0 1000 0 1 1 0 0 0

