## ASSIGNMENT - 3

GROUP-3 17EC10063 17BC10065

\* State Diagram

SO (00) Cinitial) States:

{ 1-5 coin} SIE Coins worth 5 (01)

{ Either 5+5 } s2 ← coins worth lo (10)

0 
Five Coin input to machine
1 
Ten coin input to machine Inputs:

PO ← Drink dispensed outputs!

PI - change dispensed

## Assumptions

- 1. At each clock cycle (+ re edge of clock) either a fine coin or a ten coin comes (but not both)
- Atleast one type of coin comes (otherwise the machine remains in its previstate)
  [Except Reset condition at beginning]

Diagram

Po (Drink dispensed)

PI (change Dispensed)



