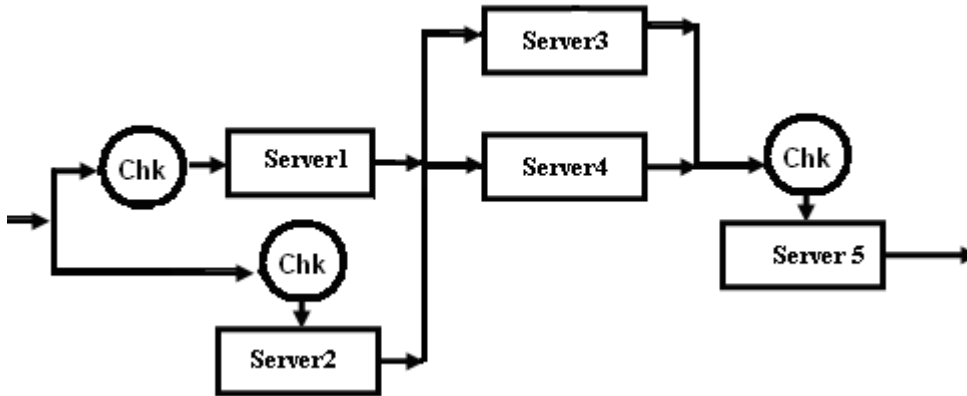


## Assinment 1

### Q1

Assume that we have the following hybrid system network which includes three layers.



Perform **Next Event Scheduling (NES)** simulation technique on servers (2, 3) and using **Activity Scanning (AS)** simulation technique on servers (1, 4, and 5 with your case suggestion). Let us define the following timetable to find **total waiting time and utilization at each level**.

Process No.	Inter-arrival Time	Service Time of any Server	Check Time
1	1	2	2
2	1	1	1
3	2	2	0
4	1	1	2

### Q2

Find discrete system model and show the system architecture for the following system behavior.

