Lab Eval 2

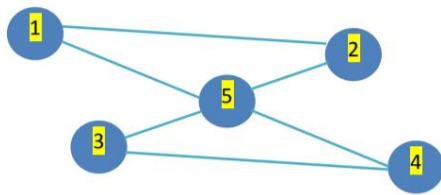**Max Marks 15**   **Time:45 Mins**

ODD NUMBERED SYSTEMS

Q1. You need to develop the topology with the following specifications: N1--N2, N1-N5 links have the bandwidth of 2 Mb, with the delay of 15 ms, with DropTail queue type. N3-N4, N3-N5 links have the bandwidth of 5 Mb, with the delay of 10 ms with RED queue type. N5-N2, N5-N4 links have the bandwidth of 3 Mb, with the delay of 10 ms with DropTail queue types.
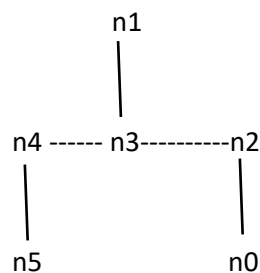

Q2. Implement a UDP-based Game Scoreboard System where:

Players (clients) send their scores to a central server.

The server maintains a leaderboard of the top scores.

EVEN NUMBERED SYSTEMS

Q1. Create a network with six nodes n0, n1, n2, n3, n4, n5 forming the following topology.

```
        n1
         |
         |
         |
n4 ------ n3----------n2
 |                     |
 |                     |
n5                    n0
```

The links between n1 and n3, n3 and n4, n5 and n4 have 5 Mbps of bandwidth and 50 ms of delay with RED queue types. The links between n0 and n2, n2 and n3 have 4 Mbps of bandwidth and 100 ms of delay with DropTail queue types.

Q2. Design a UDP-based Online Quiz System where:

Players (Clients) send their answers to a multiple-choice quiz question.

The server evaluates responses and displays users who sent correct answers.