Indian Institute of Information Technology, Allahabad

ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT
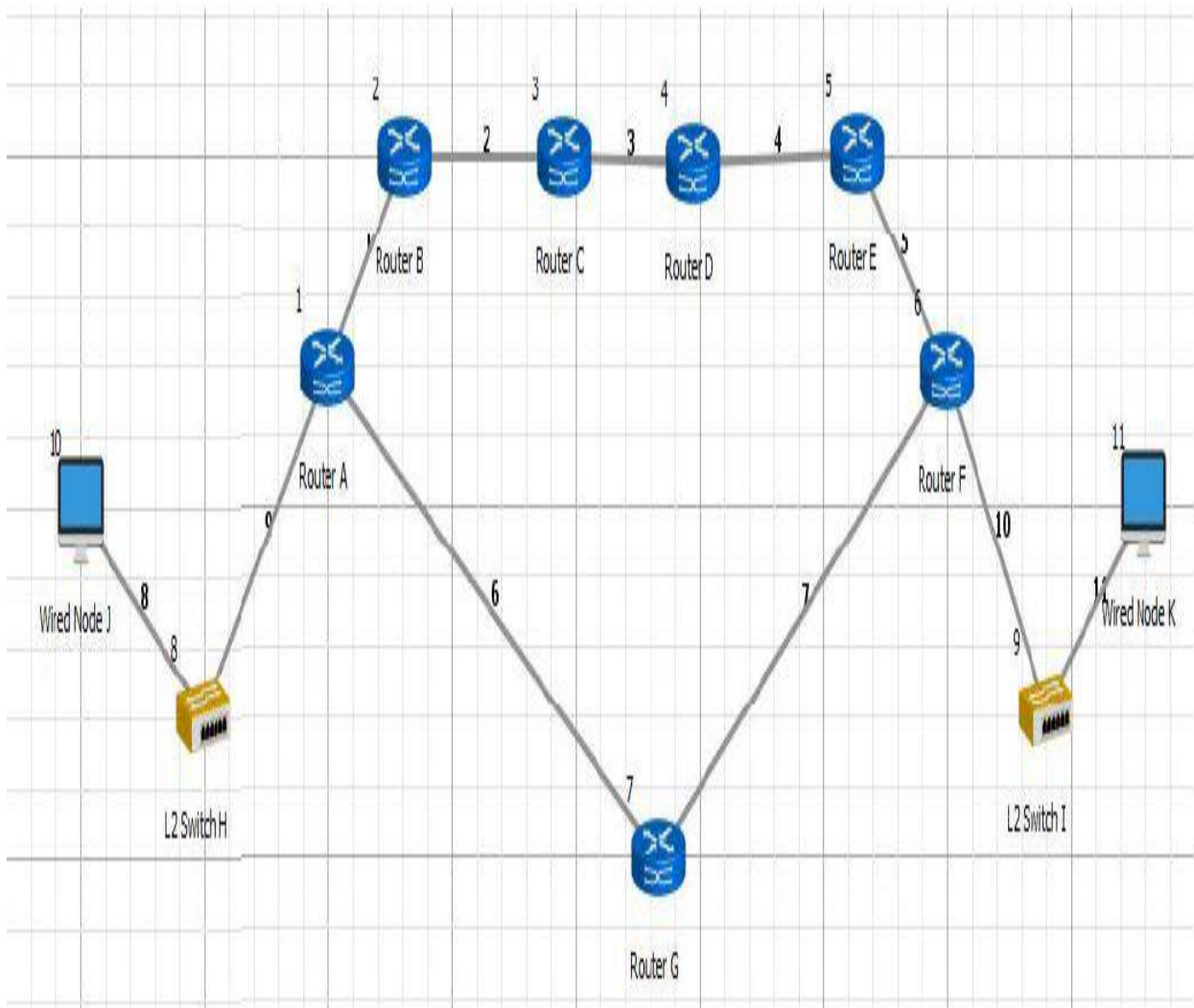
Course Name: Wireless Communication

EXPERIMENT NO: 3

Objective: To study the Interior gateway routing protocol: Routing Information Protocol (RIP) and Open Shortest Path First (OSPF).

Materials/ Component Required :

Network Simulator (NetSim)

Procedure for RIP:
1. New→ Select Internetwork
2. Draw the network as shown in the previous slide.
3. Go to router property→ application layer→ Select routing protocol RIP.
4. Disable the TCP option for the wired nodes.
5. Accept default properties for the switch and links.
6. Set the application type: custom and set the source destination pairs.
7. Run the simulation.

Procedure for OSPF
1. New→ Select Internetwork
2. Draw the network as shown in the previous slide.
3. Go to router property → application layer→ Select routing protocol OSPF.
4. Disable the TCP option for the wired nodes.
5. In link properties for the link 6 and 7 set the uplink and downlink speed to 10 Mbps.
6. Set the application type: custom and set the source destination pairs.
7. Run the simulation.

Analyze the difference in the working of the above two routing protocols.

Result: By using NetSim, we have obtained the throughput for these two routing prototcol.