**Part 2 Network Simulator 2 (Marks: 10)**

**\*\*\*\*Submission: You have to submit your (Roll-No.tcl) file in a folder named Question 2. You should provide screen shots of your working code along with the tcl file \*\*\*\***

You will have to create a hybrid topolgy as given in the diagram below using statements in correct format from ns2 to implement the Distance vector routing protocol. Assume all the devices in the topology as nodes and all the wires as duplex links having a capacity of 1.5Mb and a propagation delay of 10ms with a stochastic fair queue scheduling algorithm. You must orient the nodes as shown in the topology below. You will have to send TCP data from p3 to p9 and from p5 to p12. You will have to send UDP data with a rate of 2200 packets/44 seconds with a single packet having a size of 1.5 Kilo Bytes from p13 to p6. Also send udp traffic from p1 to p8 such that 14800 packets are generated after each 37 seconds with each packet having a size of 5.5 Kilo Bytes.

**Note: Implement the task using less number of statements to get the full marks.**

**Scheduling Events:**

➢ TCP Data from p3 starts at 0.2 and stops at 1.8, TCP data from p5 starts at 0.3 and stops at 1.4   
➢ UDP Data from p13 starts at 0.4 and stops at 1.6, UDP data from p1 starts at 0.7 and stops at 1.7  
➢ Bring the link between r1 and r2 down at 0.7 and bring it back up at 1.0   
➢ Bring the link between r4 and r3 down at 0.9 and bring it back up at 1.3   
➢ Stop the simulation at 2.0