**Computer Network**

**Mid semester exam Rubric**

**Q1) [subjective] [partial mark not available] [5 marks]**

Here link-state protocol is higher than the Distance vector protocol due to the Link-state routing is work on the basis of global information like all node computing the shortest path for the whole network; on the other hand, distance vector routing is based on Local information. So, here Link state Routing protocol will be used. In link state protocol converges time after topology change is faster than the Distance vector routing protocol because In Distance vector routing, count to infinity problems takes place which slows down the converges.

**Q2) [Subjective] [partial mark available] [2+2+1 mark]**

In persistent looping, Link state routing protocol can be better to use, because In Distance vector as poison reverse with split horizon decreases the probability of creating loops and count to infinity problems takes place

link state routing protocol does not work any persistent looping concept, only there is a temporary loop exist which can solve automatically by router or system. In Distance vector routing, count to infinity problems takes place which slows down the converges

In link state protocol converges time after topology change is faster than the Distance vector routing protocol

**Q3) [MCQ] [1 mark]**

(b) *DNS query to TCP SYN to HTTP GET Request*

**Q4) [Fill in the blanks/One word answer] [1 mark]**

current longest queue/overflow

**Q5) [true false] [1 mark]**

True/False/T/F