

List of Review Questions for Midterm Exam 2 (Closed-book exam. A calculator without any communication function is allowed. No cheat sheet)

1. Understand the mechanisms in TCP connection management. The finite state machine of TCP connection management will be provided in the exam.
2. Understand the Dijkstra's shortest path algorithm.
3. Understand the steps in distance vector routing
4. What is the count-to-infinity problem? Understand the difference between two rules to solve the count-to-infinity problem: split horizon vs. split horizon with poison reverse
5. REMEMBER the structure of ip header, in particular the meaning of the following fields in the IP header:
IHL,
Total Length,
Identification,
MF,
Fragment offset,
TTL.
6. Understand the steps for IP fragmentation and reassembly.
7. Understand the IP address allocation scheme in CIDR.