Possible Quiz Questions (Quiz #2 - PART I) on January 24th, 2023

The following is a list of possible questions for our quiz on January 24th. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

#1: What is “tunneling” (as a technical definition)?

#2: What are the two major benefits in using tunneling?

#3: How packets in each layer in the “internet four-layer protocol architecture” are constructed without tunneling (answer this question by showing a figure)?

#4: What is “packet encapsulation”?

#5: Show an example of “layer-1 tunneling (answer this question by showing a figure).

#6: What are the issue(s) in LANs (local area networks) does “Soft-LAN” solves?

#7: What are the services broadcasting in a LAN offer to each host computer that is physically attached to a LSAN segment?

#8: Why is it hard for any host computers over the Internet to be connected to a remote LAN?

#9: Describe the five activities “Soft-LAN” performs to let a remote host computer over the Internet to logically join a LAN over the Internet.

#10: Show how Soft-LAN applies “tunneling” in packet levels.

#11: Mention at least three examples of “tunneling” standards that are for “extending the scopes of the existing networking”.

#12: Mention at least three examples of “tunneling” standards that are for “emulating transmissions services not available in an existing networking protocol”.

#13: What is (are) the primary motivation(s) in VPN?

#14: What is “Mbone”? How does “MBone” work?

#15: TBA
#16: TBA
#17: TBA
#18: TBA
#19: TBA
#20: TBA
#21: TBA
#22: TBA