

INST 346: Technologies, Infrastructure and Architecture
Quiz 3, September 21, 2017

Standard Instructions (unchanged from the last quiz):

This is a 5 minute quiz, starting promptly at 5:00 and ending promptly at 5:05. You may use any resources (Web, readings, class notes, class slides) that existed before the start of this quiz. You may not communicate with any other person (including the instructor) during the quiz. If you have difficulty interpreting a question, briefly describe that difficulty and any assumptions that you have made to allow you to answer the question and we will consider what you have written when grading your quiz.

Answer all questions. A maximum of 1 point is available.

0. (0 points) What is your name?

1. Answer ONE of the following two questions. If you answer both, only the first will be graded
 - a. (1 point) HTTP uses two message types (request messages and reply messages) but all DNS messages use the same message type (i.e., a single message type, meaning that all DNS messages have the same set of fields). Explain why.

OR

- b. (1 point) Explain how a video replay client such as Netflix or YouTube should decide how much buffering delay to add before beginning playback of stored video. For a complete answer to this question you should explain what the client must consider when choosing the shortest desirable delay and what the client must consider when choosing the longest desirable delay.

Please **hand write and sign** the honor pledge on this quiz. (For reference, the honor pledge (described at <http://osc.umd.edu/Uploads/OSC/Honor%20Pledge.pdf>) is: "I pledge on my honor that I have not given or received any unauthorized assistance on this quiz.")