

INST 346: Technologies, Infrastructure and Architecture
Quiz 7, October 26, 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. (1 point) An Address Resolution Protocol (ARP) request message can be used by a host to request that a router with a specific IP address respond (using an ARP response message) with the Ethernet MAC address of that router. But an ARP message is an Ethernet packet (more properly, an Ethernet “frame”), and the ARP response message can only come back to the requesting host from the router whose Ethernet MAC address is not known! How does the ARP request message get to the right router if the Ethernet MAC address of that router is not known???

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.”)