**Elec 6861 – Higher Layer Telecommunication Protocols – Fall 2013**

**Quiz #2**

**Note: Please answer each question to the best of your understanding. No additional information will be provided during the quiz.**

**Question 1**

* Give two examples of UDP properties
* Why is it not possible to let applications just send raw IP packets to each other instead of using UDP when reliability is not required?

**Question 2**

* What is split TCP?
* Give two examples of split TCP disadvantages

**Question 3**

There are several transport protocols other than UDP and TCP.

* Give an example of such a transport protocol
* For the example of protocol you gave, give an example of difference with UDP
* For the same example of transport protocol you gave, give an example of difference with TCP.

**Question 4**

* Give two examples of transport protocols for real time media delivery
* Give an example of similarity between these two transport protocols
* Give an example of difference between these two transport protocols

**Question 5**

Let us assume a dial-in conference with John, Mary and Alice in a SIP environment with an application server and a media server that supports MSCML. We also assume that it is Mary only who knows the SIP URI of the application server.

* Draw a sequence diagram that shows the messages exchanged for the conference establishment.
* We now assume that when the second participant joins the conference, the message “The second participant has joined the conference” is played to the first person who is already in the conference. Draw the related sequence diagram.

**Question 6**

How many interfaces do we have in the conference floor control architecture? Describe each one of the interfaces in one sentence.