ECE 697J – Advanced Topics in Computer Networks

Quiz #3 – 10/08/02

Name:_____

Please answer the following questions BRIEFLY (1-2 sentences should be sufficient).

1.) What are the resources that an active router has to protect from excessive use by active packets?

2.) Why can SNAP guarantee that an active packet cannot exceed certain limits on any of these resources?

3.) What are the challenges for providing cryptographic security in an active network?

4.) In today's paper, it is proposed to split the packet payload into two logical components. What are they and why do the authors think this is necessary?

5.) If a language-based approach, like SNAP, can provide you with guarantees that no resources is abused and no state is modified on the router, is it still necessary to use cryptographic methods to achieve security?