

Name: _____

Section: _____

EE334 Homework: Networking

Problems:

- **Pg. 2 – 4 of this PS**

Additional Problems (Instructor Option):

- **Complete the Networking Quiz included with this Problem Set (*You may want to use a search engine to help answer some of the questions.*)**

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1. What is the Open Systems Interconnection (OSI) reference model? Why is it needed? What are its components and what do they do? To what model was the Internet actually constructed, if not the OSI model?

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2. For each of the following, Repeater, Hub, Bridge, Switch, Router, Gateway and Brouter, describe what the component does, what layers of the OSI model the component uses and where it should be used. (Use www.webopedia.com as a useful resource)

Component	Functions	OSI Layers
Repeater		
Hub		
Bridge		
Switch		
Router		
Gateway		
Brouter		

3. What is a firewall? (start at www.webopedia.com and research to find out what a firewall is and what it does.)

