**CSCI 4345**

**Study Question Set 6**

**Dr. Abraham**

**REMEMBER TO HANDWRITE YOUR ANSWERS**

1. Write ½ page essay on guided media, particularly twisted pair. Make sure to include wiring scheme, problems associated with twisted pair and attempts to overcome them, and length limitations.
2. Differentiate between Hub (active and passive), switch and router and explain what OSI layer each fall under and why.
3. Discuss Multiplexing and the most common technologies.
4. Discuss fiber optics, type and uses, light source and detectors used with each, and how each transmit signals.
5. Discuss using diagrams digital data/analog signals and digital data/digital signals.
6. Write a socket program to demonstrate your proficiency
7. Discuss Sliding Window Protocol, CRC and Hamming Code.