





**5. (10 pts) Networks**

(i) Which OSI layer is UDP? The UDP Segment Header includes what fields?

(ii) How does the NIOS communicate with the DM9000A Ethernet chip

**6. (10 pts) Operating Systems**

(iii) What is the major difference between embedded and general-purpose task scheduling?

(iv) Why is it important that a Test-and-Set function be atomic?