Name:_____   SSN: _____   I didn't cheat: _____

Instructions: Answer all questions in the space provided.  Show work.  Be neat.  One 8.5 x 11 note sheet allowed - otherwise closed book.

1. a) What are the three characteristics that distinguish data link line configurations?  Describe.

b) Discuss the effects these characteristics have on line management problems and approaches possible.

c) What are the two basic types of polling?  What are the reasons you might use on or the other?

2. a)  Describe the Go-Back-N Sliding Window protocol.

   b) What problems does this protocol solve?  How?

   c) What are the considerations when selecting window sizes?  How do they affect performance?

3) a) Describe three types of multiplexing.

   b) What are their advantages and disadvantages?