Florida Institute of Technology
Department of Electrical and Computer Engineering
Comprehensive Examination
Computer Networks

Name _____ **Student Number**_____

1.A. Explain how DSL works on the phone line.

  B. Explain the steps for a transmitter to transmit a frame in IEEE 802.3 (Ethernet) protocol.

  C. Why would one use (for what kind of applications) a low orbiting satellite instead of a geosynchronous satellite?

2.A. Why do we have source and destination address in packet switching?
  B. Why should one use DHCP?
  C. Explain physical layer channel allocations using TDM.

3.A. Explain the operation of transparent bridge.
   B. How does TCP/IP identify a connection?
   C. Briefly, explain DNS.