

EL-GY 5373 Pop Quiz One

Name: _____

Student ID: _____

I. Answer True or False to the following questions:

- Ethernet uses the Frame Type field to indicate it's an Ethernet frame
a) True b) False
- Different higher layer protocols can use the service by the same lower layer protocol.
a) True b) False
- A lower layer protocol uses a specific field in its header to identify different higher layer data in encapsulation
a) True b) False
- If a network is running TCP/IP protocol suite, then each and every device/element in the network must implement all the four layers of protocols.
a) True b) False

II. Select ALL CORRECT answers for the following questions.

1. The size of an IPv4 address is
 - a) the same as the size for its related subnet ID field
 - b) **smaller than the size of an Ethernet MAC address**
 - c) smaller than the size of a subnet mask
 - d) 48 bits
2. Which of the follow protocol layer(s) can process data from end user?
 - a) **Application Layer**
 - b) Transport Layer
 - c) Network Layer
 - d) Data Link Layer
3. Which of the follow TCP/IP protocol layer(s) should describe protocol functions to use physical communication medium?
 - a) Application Layer
 - b) Transport Layer
 - c) Network Layer
 - d) **Data Link Layer**
4. A host, a.k.a. an end system, is identified in Internet by the following (select all correct ones):
 - a) Domain name (??? to be explained further)
 - b) Ethernet/MAC address
 - c) **IP address**
 - d) Port number