

### **Tutorial 4 – Data Link Layer**

1. What are the 2 sublayers in Data Link Layer and what are their functions?
2. With the aid of a diagram, describe the format of a typical Frame in TCP/IP protocol.
3. What is the purpose of the frame check sequence in the trailer of the Ethernet frame?
4. List 5 common Data Link protocols.
5. Answer the following questions about MAC addresses:
  - a) At which OSI layer are MAC addresses seen?
  - b) How many bits are there in a MAC address?
  - c) How many hex digits are there in a MAC address?
  - d) What is the MAC address that can be used in a broadcast?
  - e) With the aid of a diagram, explain the IEEE structure of a MAC address.