CS1356 Introduction to Information Engineering
Quiz 8, 2010/11/22

Your name_____ Student ID_____

1. Choose the correct descriptions:
   (A) **Internet** is one kind of **The Internet**.
   (B) An IP address of **IPV6** is **64 bits** long.
   (C) Every owner of a domain name should maintain a **domain name server**. Otherwise the domain name can't be used.
   (D) Both **TCP** and **UDP** are Transport Layer protocols.
   (E) The **OSI** reference model is based on a **seven-level** hierarchy.
   (F) **TCP** provides **congestion control**, and **UDP** provides **flow control**.
   (G) **Forwarding** and **routing** are done in the **network layer**.
   (H) **Hop count** is a value used to protect the Internet from packets circling endlessly.
   (I) HTTP application uses port number 80.
   (J) **Bridge** is essentially a **repeater** with multiple connections.
   (K) **Router** maintains a **forwarding table** that contains the knowledge of the **directions** in which messages should be sent depending on their **destination addresses**.
   (L) Because the Internet is **rapidly outgrowing** the internet addressing system dictated by **IPv4**, a new version of IP known as **IPv6** had been established.

D, E, G, H, I, K, L

2. Express the following bit pattern to the **dotted decimal notation**:
   01001000000011101100101110010011

72.14.203.147

3. Why does the Internet need the **domain name** addressing?

Because addresses in bit-pattern form are rarely conducive to human consumption.