**Quiz #1 Review**

1. **Review what a router uses versus a switch for delivery**
   1. Router – Forwards data packets between computer networks, creating an overlay internetwork.
   2. Switch – links the network segments or network devices
2. **What are DHCP, DNS, and ARP?**
   1. DHCP – Dynamic Host Configuration Protocol. Protocol for configuring devices to communicate on an IP network.
   2. DNS – Domain Name System. Naming system for any resource connected to the internet or private network.
   3. ARP – Address Resolution Protocol. Telecommunications protocol used for resolution of network layer addresses into link layer addresses.
3. **What ports do HTTP, HTTPS, DNS, and SMTP use?**
   1. HTTP – 80
   2. HTTPS – 443
   3. DNS – 53
   4. SMTP – 25
4. **Port numbers are 16-bit; the possible range is thus?**

216

1. **NAT**

Network Address Translation. Process of modifying IP address information in IP packet headers while in transit across a traffic routing device.

1. **Encapsulation**

Method of designing modular communication protocols in which logically separate functions in the network are abstracted from their underlying structures by inclusion or information hiding within higher level objects.