Q11

- Recall IP addresses are 32 bit addresses with a subnet part and host part
- · Classless Interdomain Routing (CIDR) Notation
- Consider the subnet: 50.150.250.0/24
 - Explain what /24 means
 - How many IP addresses in this subnet?
 - How many hosts are in this subnet?
- (1) 24 bits to identify the subnet
- (2) 2^8, because there are 32-24 bits in the host part.
- (3) 2^8-2, because all zeros and all ones in the host part are reserved addresses.

Q12

5 subnets are in the network

Q13

- (1) 206.68.144.0 is the first address, 206.68.144.1 is the first assignable address.
- (2) 206.68.151.255
- (3) 255.255.248.0

Q14

22 bits are same, so the CIDR aggregation is: 137.132.24.0/22

Q15

• Consider the network below. Specify IP addresses for all interfaces of the local network. Also assign MAC addresses to these interfaces. rest of local network (e.g., home network) 10.2.0.9 11:CD:EF:FE:DC:BA 10.2.0.8 AB:CD:EF:FE:DC:BA

Q16

WAN side address/port	LAN side address/port
138.76.29.7, port 80900	10.2.0.9, port 7000
138.76.29.7, port 80999	10.2.0.10, port 7000
138.76.29.7, port 80998	10.2.0.11, port 7000