**5.1 IP Configuration:**

IP Addresses operate at Layer 3, the Network layer. Unique hosts are assigned unique IP addresses. Each portion of an IP address is an octet made up of 8 bits. Subnet masks also have 4 octets, where first 2 identify the subnet and the second 2 identify host.

5 IP Address classes: Each are identified by their first octet number in their IP address.

**A:** 1-126 Subnet-255.0.0.0 **B:** 128-191 Subnet-255.255.0.0 **C:** 192-223 Subnet-255.255.255.0 **D:** 224-239 (Multicast, with multiple hosts on same IP) **E:** 240-255 (experimental)

**5.2 Subnetting:**