**CN mock exam answers**

1. 255.255.255.255 is not the MAC broadcasting address:

* False

1. Which of the following describes ‘big endian’:

* Most significant byte first

1. Which of the following involve NAT:

* Address Translation
* Accessing the web from an internal network. Your PC’s network will be translated to your public IP (i.e. home network)
* Port Forwarding

1. The MAC address has 32 bits:

* False

1. A network with the netmask 255.255.255.0 has 2^8 = 128 ips:

* False

1. How many hosts can be addressed on 10.0.0.0/16:

* 65534

1. A computer connects to a switch using a Cross-Over cable:

* False

1. All IP addresses from the class 127.0.0.0/8 are private:

* False

1. Are mac addressed guaranteed to be unique:

* Yes, because mac addresses are burned into the ROM of the network adapter.

1. There can’t be multiple computers with the address 127.0.0.1:

* False

1. Represent /26 in doted decimal format:

* 255.255.255.192

1. UDP is not connection oriented:

* True

1. What command would you use to check the Datalink Layer if it works (on Windows):

* Arp /a

1. 127.16.0.1 is a private IP address:

* False

1. 127.0.0.1 can not be a network address:

* True

1. SOCK\_DGRAM is used for UDP connections:

* True

1. Which of the following is not a characteristic of the IP protocol:

* Is a connection-oriented protocol

1. The recvfrom() call doesn’t transmit data to the TCP client:

* True

1. A class /24 can be split into 3 subclasses /26:

* True

1. The maximum number of actual hosts for a class C network is:

* 254

1. A switch is more advanced than a hub:

* True

1. IP is located at the Link Layer:

* False

1. A DNS server can be a Default Gateway:

* True

1. A UDP socket is created using the parameters AF\_INET and SOCK\_STREAM:

* False

1. ARP means Address Resolution Protocol:

* True

1. 192 168.1.155 belongs to the class 192.168.1.0/25:

* False