**CPSC 1480 LAB 3 TOMAS GONZALEZ ORTEGA 100266942**

Q.1

Virtual server’s IPv4 address: 192.168.14.100

Default gateway address: 192.168.14.1

Subnet mask: 255.255.255.0

DHCP server address: 192.168.14.1

DNS server address(es): 10.65.0.100

10.65.0.101

10.65.0.102

MAC address (Physical address): 08-00-27-D3-66-E9

(Q.2).32 bits = 4 bytes

(Q.3). Ping the loopback address as follows: ping 127.0.0.1

What is the TTL ? 128 (#of Hops)

(Q.4). execute: ping google.com

a. What is the TTL? 53

b. We have 11 hops tested.

c. Says Bad value for option –I, valid range is from 1 to 255

d. 

(Q.5).ping [www.yahoo.ca](http://www.yahoo.ca)



tracert [www.microsoft.com](http://www.microsoft.com) (Q.6). What are the first 3 addresses?

192.168.14.1

10.5.253.254

10.101.251.161

(Q.7). Copy and paste the traceroute result of www.novell.com



(Q.8). Copy and paste the traceroute result of [ftp.novell.com](ftp://ftp.novell.com)



(Q.9). www.novell.com’s IPv4 address: 130.57.66.5

ftp.novell.com’s IPv4 address: 130.57.1.173

(Q.10). How many hops did it take to get out of Langara’s network? What is the first public IP address reached? Who does it belong to?

Seeing in the tracerout we got 5 hops inside Langara. On hop number 6 was already outside, on shawcable.net (that’s not private anymore).

(Q.11). How many addresses are associated with the namewww.google.com?

We have 3 addresses associated: 10.65.0.100, 2607:f8b0:400a:809::2004 and 172.217.3.164

(Q.12). What other names is associated with [www.yahoo.ca](http://www.yahoo.ca)?

zeus.int.ad.langara.ca (10.65.0.100)

src.g03.yahoodns.net (98.137.236.150) aliases: [www.yahoo.ca](http://www.yahoo.ca) and rc.yahoo.com

(Q.13). What is the MAC address (physical address) of the default gateway?

00-1e-e5-6c-a0-92