2.

IP address is: 172.26.150.185 (32 bits)

Hardware address: 00:15:5d:be:ec:68 (48 bits)

3.

Use “ping <AnyURL>” command and find out

i. the average RTT(round trip time).-> 69.883

ii. the %packet loss.-> 0%

iii. size of packet that is sent to <AnyURL> server. codewithharry -> 56(84) bytes of data

iv. size of packet that is received by your machine. -> 64 bytes

99 packets transmitted, 99 received, 0% packet loss, time 110341ms

rtt min/avg/max/mdev = 39.589/69.883/215.957/30.746 ms

4. Use “dig <AnyURL>” command and find out

i. the IP address of <AnyURL>. -> IP address of github.com is 🡪20.207.73.82

ii. the IP addresses of local DNS servers of IIEST. -> IP address of cs.iiests.ac.in -> 10.2.0.1 and 10.2.1.40

5. Use “traceroute <AnyURL>” and find out -> 10.2.0.1

i. number of hops in between your machine and <AnyURL> server.

IP address of google.com ->216.58.203.14

ii. the IP address of your network gateway of your subnet.-> cs.iiests.ac.in (10.2.0.1)

6. Use “arp” command to find out the MAC address of the device that is performing as your

network gateway.

00:1e:67:0e:86:df

7. Use nslookup <AnyURL> command and find out the IP address of <AnyURL>. Use

nslookup <IP address> command and perform reverse domain lookup.

* Name: google.com
* Address: 216.58.203.14
* Name: google.com
* Address: 2404:6800:4009:804::200e

14.203.58.216.in-addr.arpa name = bom12s04-in-f14.1e100.net.

14.203.58.216.in-addr.arpa name = hkg12s09-in-f14.1e100.net.

8.

