**CN Lab Quiz 1**

**Statement 1: Analyzing TCP Packets using Wireshark**

Q1) IP address: 192.168.1.102

Port no: 1161

Q2) IP Address: 128.119.245.12

Port no: 80

Q3) Sequence Number: 0 (relative sequence number)

Sequence Number (raw): 232129012

The Syn flag is set which indicates that it is a SYN segment.

Q4) Sequence Number: 0 (relative sequence number)

Sequence Number (raw): 883061785

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 232129013

The Syn flag and the Acknowledgment flag are set which indicates that

it is a SYNACK segment.

Q5) Ack 2026 tells the client that the server has received the first 2026 bytes of the data. Seq 1 tells the client that the first byte in the TCP payload (if any) is byte number 1 of the data.

Q6) Ack 7866 tells the client that the server has received the first 7866 bytes of the data. Seq 1 tells the client that the first byte in the TCP payload (if any) is byte number 1 of the data.

Q7) Relative sequence and ack are more human readable than the actual raw values.

**Statement 2: Analyzing UDP Packets using Wireshark**

Q1) There are 4 fields in the UDP header.

Q2) Source Port field is 2 bytes.

Destination port field is 2 bytes.

Length field is 2 bytes.

Checksum field is 2 bytes.

Q3) The value in the length field is the length of the (UDP headers + the

UDP payload).

The value of length field in packet number 15 is 52.

The size of headers in UDP is 8 bytes.

The size of the UDP payload is 44 bytes.

8(header size) + 44(payload size) = 52(value of length field)

Q4) Port number is 53.