**NAME**:

Rename the completed Word document to *yourlastname\_Q8.docx* before emailing it to [tlupfer@sandiego.edu](mailto:tlupfer@sandiego.edu). In other words, my quiz would be named *lupfer\_Q8.docx*.

This is a closed-book, off-grid (no Internet searches) quiz. You have 20 minutes to complete it.

**Reminder**: USD Honor Code: [www.sandiego.edu/conduct/documents/HonorCode.pdf](http://www.sandiego.edu/conduct/documents/HonorCode.pdf)

**All questions are worth 3 points (35 x 3 = 105 points total)**

What are the five elements to each section of a test plan/report?

1. **Answer**:
2. **Answer**:
3. **Answer**:
4. **Answer**:
5. **Answer**:

What are the five layers of the TCP/IP network stack?

1. **Answer**:
2. **Answer**:
3. **Answer**:
4. **Answer**:
5. **Answer**:

What protocol is used to synchronize the time of a device on a network to a reference time server? Provide the acronym and what it stands for.

1. **Answer**:

What protocol is used to resolve a domain name to an IP address? Provide the acronym and what it stands for.

1. **Answer**:

What are the two parts to a MAC address and where do their values come from (who assigns them)?

1. **Answer**:
2. **Answer**:

How many bits are in each part of a MAC address?

1. **Answer**:

List the two common error detection methods:

1. **Answer**:
2. **Answer**:

Which is the stronger of the two error detection methods?

1. **Answer**:

List the four WiFi encryption standards:

1. **Answer**:
2. **Answer**:
3. **Answer**:
4. **Answer**:

What are the two parts of a TCP/IP socket specification/address?

1. **Answer**:
2. **Answer**:

What are the three steps performed by a client to establish a TCP/IP socket connection?

1. **Answer**:
2. **Answer**:
3. **Answer**:

What are the three steps performed by a server to establish a TCP/IP socket connection?

1. **Answer**:
2. **Answer**:
3. **Answer**:

Is a standard TCP/IP socket encrypted?

1. **Answer**:

What are the two common encryption schemes? For each scheme, describe its advantage over the other.

1. **Answer**:
2. **Answer**:

Describe how both encryption schemes can be use together for secure communication between a client and server.

1. **Answer**:

What is the name of the type of attack the above secure communication method is prone to?

1. **Answer**: