Full Name: _____ Gannon Identification Number: _____

CYENG 351: Embedded Secure Networking
Spring 2023, Second Examination
Gannon University (GU)
April 12, 2023

Please do not turn the page until you are informed.

Rules:

- The exam is closed-book, closed-note, closed shared calculator, and closed electronics.
- Please stop promptly at **1:55 PM**.
- There are **20 points** total, distributed **evenly** among **2** questions.

Question	Maximum	Earned
1	10	
2	10	

Advice:

- Read questions carefully. Understand a question before you start writing your answer.
- Write down thoughts and intermediate steps so you can get partial credit. Clearly circle your final answer.
- The questions are not necessarily in order of difficulty. **Skip around.** Make sure you get to all the problems.

Wishing you the best of luck,
Dr. Shayan (Sean) Taheri

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Question 1. (10 points) Complete the following items.

A. Provide a description for the **File Transfer Protocol (FTP)**.
B. Specify the weaknesses of **FTP**.
C. Determine the usages of **FTP**.
D. Explain the **Bounce Attack** using a figure.
E. Discuss the similarities and the differences between **FTP** and **TFTP**.
F. Mention different forms of **HTTP Authentication**.

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Question 1. (Cont.)

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Question 2. (10 points) Complete the following items.

A. Describe different aspects of **ZigBee**, including but not limited to its characterization, bandwidth, connectivity, and functionality.
B. Specify and draw different topologies of **ZigBee**.
C. Determine **the Type of Designs/Architectures** for software/hardware resources that provides robustness, flexibility, and well-defined connectivity. Explain **the design type** using a figure.
D. Mention different rules that should be considered for **the design type** connectivity.

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Question 2. (Cont.)