Name: ____________________________
ID: ______________________________

45 pts.

Show all your work. Without proper justification and details of steps, correct answers alone may not carry full credit.

Notes:
- Minus 3 points if your homework is not stapled in the upper left-hand corner.
- Minus 2 points if you use the back of your paper. Please only use a single side.
- Minus 2 points if you present the worked problems out of order. In other words, please present the problems in the order assigned, 1, 2, 3, ...

1. Describe how RFID enables supply chain visibility. (2 pts.)

2. List two ways that RFID enhances identity systems. (2 pts.)

3. Find one conference paper, magazine article, or journal article in the IEEE or ACM electronic databases that discuss either pervasive or ubiquitous computing. Cite it using the IEEE style demonstrated at the end of this homework. In one paragraph, describe the topic of the article. (10 pts.)

4. Describe the major differences between active, passive, and semipassive tags. (5 pts.)

5. Describe three advantages of a semipassive tag over a passive tag. (3 pts.)

6. Describe the benefits of RFID for retailers. (5 pts.)

7. Describe the major points that describe privacy. (3 pts.)

8. Describe why threats to RF devices are harder to mitigate. (2 pts.)

9. Describe a recent RFID attack. (3 pts.)

10. List and describe the four top privacy threats by RFID. (8 pts.)

11. Describe the main privacy threat by RFID. (2 pts.)
Citation examples in IEEE style

**Example journal**

**Example magazine**

**Example conference**