DFSC1316: Digital Forensic and Information Assurance I

Assignment 1

Rules:

1. All you answers will be <u>typed</u> unless otherwise being advised.
2. Submit you assignment in PDF version (Office word can be directly saved as PDF, or you can use virtual PDF printer to 'print' it as pdf).

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1. (15 points) In a few sentences, explain what are Digital Forensic and Information Assurance. Do not copy from the slides, use your own words and make your answer concise.

2. (15 points) Find a legal case (online, books, etc.) that was solved (or not) with the help of Digital Forensics. Explain the background, and how DF is involved, for example, what/where/how digital evidence has been found, and what tools have been used. List all references that are necessary.

3. (15 points) Why digital evidence needs special handling? List a few practices of such special handling.

4. (15 points) In your own words, explain the 5 goals of Information Assurance, do not copy from slides.

5. (20 points) We have discussed Decimal, Binary and Hexadecimal in class, convert the following number into the other two formats. <u>Do the calculation by hand, and show your steps</u>. You can <u>include a photo copy of your handwriting</u> for this question.
   a. 78 (D)
   b. 100011101 (B)
   c. 7A8D (H)

6. (20 points) Show the positional notation for the following numbers. You can <u>include a photo copy of your handwriting </u>for this question.
   a. 11011011110 (B)
   b. 5E3A8F (H)