Chapter 19 Lab, Hands on, Laptop Disassembly.

READ THE ENTIRE ASSIGNMENT *BEFORE* YOU START ANSWERING THE QUESTIONS!

Answer on a **separate** different MS Word or Libre Office or Open Office document.

-- I don't need to see the questions. Just number each of your answers.

Please take the laptop given to you in lab. Take it apart using best practices from the lecture and reading the chapter assigned.

Doing this in the field, the ESD static strap is mandatory. In this assignment, the device is EOL (End Of Life). It will never be used again and you are not required to use the ESD strap, for this assignment.

1. Provide a minimum of **5 pictures** using your smartphone. Attach these in Blackboard along with your DOCX of the answers below. Feel free taking more pictures that will help you answer the questions below as you complete the assignment at home. The pictures should be of:

    a. Front Panel/Keyboard & Monitor (before disassembly)
    b. Rear Panel (before disassembly)
    c. All Sides (before disassembly)
    d. Bottom Side (before disassembly)
    e. The inside of the laptop when you take either the bottom and/or they keyboard apart.
    f. All items removed, just the bare case, looking down into it.
    g. The monitor panel layers (if you are able to do this)
    h. Any and all other snapshots that are relevant!

2. What is it?:

    a. What is the brand name? (IE: Dell, HP, etc)
    b. Tell me the model number.
    c. Any FCC numbers or other identifying tags or markers?

3. Identify and describe the following major components:

   Component Description, for *each* item below:

   ➢ Include the Manufacturer for the main board. Look up on Google using the numbers on the silkscreen of the board (if you can't find it, let me know)
   ➢ Include the Model Name/Number (if you can't find it, let me know)
   ➢ Any "Distinguishing Characteristics" for the following components? In other words, who is the manufacturer and the model name/number of each device?

   ◆ **Hard Drive(s) (if none, let me know)**
   ◆ **Optical/CD/DVD-Drive**
   ◆ **RAM**
   ◆ **System Fan(s) (if you unknown, let me know)**
   ◆ **Video Card**
   ◆ **Network Card**
   ◆ **Sound Card**
   ◆ **Anything else not listed above, that you want to add**

4. Expansion ports/slots:

   a. Does the system have any room for adding new components? If yes, what can you upgrade?

5. Concerning RAM, if it is upgradable,
   a. Are there any open slots for adding more RAM?
   b. What type of RAM is installed (IE: DDR type? Capacity?)
   c. What is the max about of RAM the motherboard will support?
   d. *If there aren't any open slots to upgrade the RAM* and *you need to upgrade the RAM*, what could you do instead? Tell me why. (Critical thinking please, research what your options are).

6. We need a "manual" for the laptop. We don't have one on hand, so we need to find it on the internet.

   a. Give the link where you found the PDF Manual for the laptop (I need an exact link so I can go download it myself).
   b. Can you find a manual or spec sheet for the motherboard?

7. Please write me a full page paper MINIMUM, using APA standards, (12 Font, New Times Roman, Double Space), explaining what you learned, any problems you encountered taking the laptop apart, researching it, or anything else you want to discuss with me. (By now, you should know, not discussing anything with me, leads to a low grade)!