Questions: Computer Hardware

1. Define computer hardware.
   1. Computer Hardware consists of all then physical parts of a computer.
2. Name and provide one computer-hardware component and its function.
   1. The most often used input device is the keyboard. It is borrowed from the typewriter with number of new keys added for ease of use of the computer.
3. Define the Central Processing Unit (CPU) and its function?
   1. The CPU of the computer is where work gets done. The Control Unit and ALU (Arithmetic/Logic Unit) are the two components of the CPU.
4. Describe the system unit and its purpose.
   1. The system unit, also known as a “tower” or a “chassis” is the main part of the desktop computer. The tower and the smaller mid- and mini-tower style cases have become popular as people started needing more room for extra drives inside. Repairmen certainly appreciate the roominess inside for all the cables and circuit boards ... and their knuckles.
5. In regard to computer hardware, what is a modem? State its function.
   1. A modem is a network connectivity device that is often connected to the PCI slots on a motherboard if it is not already intergraded on the motherboard. The modem modulates a digital signal from the computer into an analog one to send data out over the phone line. Then demodulates the analog signal into a digital one when receiving a signal.

Questions: System Unit

Inside the system unit are the following components, state its function or purpose.

1. Central processing unit (“CPU”).
   1. The CPU is the part of the computer where work gets done. It is the most important processing component of a computer.
2. Motherboard.
   1. The motherboard (or main circuit board) is the part of the computer that has all of the computer’s processing components. The CPU, ISA slots, memory chip slots, and PCI slots are all on the motherboard and its respective form factor.
3. Computer chip.
   1. The computer chip is another name for the microprocessor and is a single silicon chip containing CIPU, ALU and some memory. The computer chip/microprocessor is on the main board/motherboard.
4. Explain the label outside of a computer that states “Intel Inside.”
   1. When a computer states “Intel Inside” it is saying that the microprocessor(s) in the computer is an Intel microprocessor. Examples include the Intel “Coffee Lakes-S” (14 nm) i7 microprocessor.

Questions: Computer Software

1. What is computer software? State its function.
   1. Computer software is a catch-all term for the programs that handle the running of computer hardware. It’s broken into two terms: operating systems, utility programs.
2. What is an operating system? State its function.
   1. The operating system is a computer program that conducts the communication between the various pieces of hardware and the programs you are running.
3. Distinguish between system software and application software.
4. State the function of a browser program; list one example of such a program.
5. In understanding Office 2013, list and describe 2 features that are new in Office 2013.

Questions: Windows Registry

1. Define/Explain the Windows Registry?
2. What type of information does the Registry contain?
3. Explain the importance and function of the Windows Registry.

Questions: Files and Folders

1. What is a file?
2. Define a directory and its function?
3. What is the purpose of a folder?
4. List information available in the file properties.
5. Distinguish between “Save” and “Save As” options.

Complete research on the internet, then answer the following questions by describing each category of software/program and/or its function or usability.

1. Malware Software
2. Platform Software
3. Utilities Software
4. Course Management Software
5. Device Driver software.

Questions: Computer Usage and Security

1. In reference to computer security, who is a hacker?
2. List two ways in which a hacker might be tracked or identified?
3. In the security realm, why is "encryption" a valuable tool in e-communications?
4. Why are computer users more susceptible to be a victim of identity theft?
5. In regard to computer technology, define a “firewall’ and its function.

Questions: Special Systems and Programs

1. In regard to systems and programs, explain/define the term: “open source code.”
2. Explain the process of phishing?
3. Explain the usefulness of Simulation Software and how a business may use it.
4. What is Artificial Intelligence; provide an example of a component or device that uses it.

Define the following terms in regard to Websites and Webpages

1. Explain an URL address; provide an example of one.
2. Define what is meant by Domain Name.
3. Define the “HTML” Language and its purpose.
4. What is a Home Page?