

Name _____

Period _____

Notes 3 – Computer Software

☒ Software

- Specific _____ which enable a computer to perform specific tasks. Software functions off of human and computer input, or the 0's and 1's of the binary code.
- Software cannot be seen or touched and so _____.

☒ System Software

- Computer software _____ the computer _____ and to provide _____ maintain a platform for running _____.
- System software includes:
 - The computer BIOS and device firmware
 - The operating system
 - Utility software
- System software is essential for a computer to function, and usually comes built-in or pre-installed when you purchase a computer – You _____ want to accidentally _____ system software.

☒ Terminology

- Firmware
 - Provides the _____ for the device. Most computer peripherals are themselves special-purpose computers and have firmware _____ internally.
 - These software instructions are usually never updated or changed.
- The Basic Input/Output System (BIOS)
 - The _____ run by a PC when powered on.
 - The fundamental purposes of the BIOS are to _____ and _____ the system hardware _____, and to _____ an _____ system from a mass memory device.
 - The BIOS also provides a consistent way for application programs and operating systems to interact with hardware, the keyboard, display, and other input/output devices.
- Utility Software
 - _____ to analyze, configure, optimize and maintain the computer.
- Device Drivers
 - A device driver simplifies programming by acting as a translator between a hardware device and the applications or operating systems that use it.

☒ Boot Process

- The boot process is initiated by the BIOS, and is the _____ that occur between the time a computer is powered on, to the time an operating system is loaded and takes control.
 - Events and Purposes of the Boot Program
 - Loads from ROM memory

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Notes 3 – Computer Software

- Performs a diagnostic test to ensure everything is working properly.
- _____ connected peripheral _____.
- Checks configuration and customization.
- _____ operation _____.

📁 Operating System Software

- _____ for all activities that take place within a computer; primary purpose is to help the computer system monitor itself in order to function efficiently.
- Interacts with application software, device drivers, and hardware to manage a computer's resources.
- Ensures that input and output proceed in an orderly manner.
- Examples
 - Microsoft Windows, Mac OS, Linux, and Unix

📁 Command Line Interface

- _____ based operating system. To interact with this system you type commands to perform specific tasks.

📁 GUI (Graphical User Interface)

- A type of user interface that features on-screen _____, such as menus and icons, manipulated by a mouse.
- Abbreviation is pronounced "gooey".

📁 Operating System Terminology

- Drive
 - A _____ on a network that is _____ for the collection of data.
- Folder
 - The _____ or subdivision, of a drive that can contain files or other folders.
- Program
 - Set of detailed, step-by-step instructions that tell a computer how to solve a problem or carry out a _____.
- File
 - A _____ collection of _____ that exists on a storage medium. (a document file)

📁 GUI Terminology

- Menus
 - a _____ of commands presented to a computer user. A menu is used in contrast to a command-line interface, where instructions to the computer are given in the form of commands
- Icons
 - a _____ . A picture that means something, and if double clicked or accessed it will do something like open a file or start an application.

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Notes 3 – Computer Software

Multitasking

- Running _____ program at a time.
- Making sure that the _____ and data from one area of memory _____ with memory allocated for other programs.

Application Software

- Also known as applications or _____.
- Computer _____ / _____ designed to help the user to perform productive or specialized tasks.

Software Types

- | | | |
|---|--|---------------------------------|
| ➤ Application software suites | ➤ Entertainment software | ➤ Music software |
| ➤ Astrology software | ➤ Free application software | ➤ Personal information managers |
| ➤ Business software | ➤ Genealogy software | ➤ Religious software |
| ➤ Communication software | ➤ Government software | ➤ Science software |
| ➤ Computer programming tools | ➤ Graphics software | ➤ Simulation software |
| ➤ Computer-aided manufacturing software | ➤ Industrial software | ➤ Software for children |
| ➤ Data management software | ➤ Knowledge representation software | ➤ Spreadsheet software |
| ➤ Desktop publishing software | ➤ Language software | ➤ Stagecraft software |
| ➤ Desktop widgets | ➤ Legal software | ➤ Transport software |
| ➤ Digital typography | ➤ Library and information science software | ➤ Video games |
| ➤ Editing software | ➤ Multimedia software | ➤ Video software |
| ➤ Educational software | | ➤ Word processors |

- File Extensions – ***Circle the ones you know***

. doc	.oog	.gif	.html	.xlsx
.docx	.bmp	.jpeg	.htm	.ppt
.pdf	.png	.mpeg	.zip	.pptx
.key	.txt	.swf	.xls	.ged

Platform

- _____ and _____ of the computer system.
- Two popular platforms
 - Windows
 - Mac