**Computer Application To Business**

**Major assignment**

**Muhammad Hasnain Siddiqui**

**6976**

***A 1 (a) System* Software:**

System software is set of programs to control and manage the operations of computer hardware. It controls the usage of different hardware components. It enables application program to execute properly. System software can do following jobs:

* Saving data on disk
* Making computer to work for us
* Printing a document etc.

 System software is a set of one more program, which controls the operation and/or extends the processing capability of a computer system. In general, a computer’s system software performs one or

more of the following functions.

*  Supports development of other application software.
*  Supports execution of other application software.
*  Monitors effective use of various hardware resources such as CPU, memory, peripherals etc.
*  Communicates with and controls operation of peripheral devices such as printer, disk, tape

Hence, system software makes the operation of a computer system more effective and efficient.

It helps hardware components work together. Some commonly known types of system software are:

Operating system (Microsoft windows, Apple Macintosh, Linux), utility programs (help users in system

maintenance), Communication Software.

***A 1 (b):*** **Open source Software:**

Open-source software (OSS) is any computer software that's distributed with its source code available for modification. That means it usually includes a license for programmers to change the software in any way they choose: They can fix bugs, improve functions, or adapt the software to suit their own needs.

**Advantages:**

While its lack of cost is a key advantage, OSS has several additional benefits:

* Its quality can be easily and greatly improved when its source code is passed around, tested, and fixed.
* It offers a valuable learning opportunity for programmers. They can apply skills to the most popular programs available today.
* It can be more secure than proprietary software because bugs are identified and fixed quickly.
* Since it is in the public domain, and constantly subject to updates, there is little chance it can become unavailable or quickly outmoded—an important plus for long-term projects.

**Q2. (a)** **Differentiate between Optical and magnetic storage?**

**Optical Storage Devices:**

Optical storage devices are flat, round disks that spins around its center. The difference with magnetic storage device is that in optical storage devices LASER light is used to read and write data in disks. Examples are CD, DVD etc.

**Magnetic Storage Devices:**

The most common type of storage device is magnetic storage device. In magnetic storage devices, data is stored on a magnetized medium. Magnetic storage uses different patterns of magnetization to in a magnetizable medium to store data.

**Q2. (b) Importance of main memory;**

A good example of this is when the CPU loads an application program – such as a word processing or page layout program – into memory, thereby allowing the application program to work as quickly and efficiently as possible. In practical terms, having the program loaded into memory means you can get work done more quickly with less time spent waiting for the computer to perform tasks.

**Q3.**

Well as we all are aware of the current pandemic situation of the world the, the internet has helped us all a lot in knowing and studying the new virus, as for the uses of internet in our quarantine we have a type of connection still stablished in between us even if we can’t meet each other we can still communicate through the domain known as internet.

A person who works in the office can work from home by being connected with his/her office colleague and also to the customers as well

A student can learn from home

A teacher can teach from home

We can shop online

We can be entertained through the internet

As from the medical point of view internet has helped us all to recognize precautions.

We have also seen the growth and decline of the virus

Like having internet is like having a world in your hands