**ID: 14918**

**Assignment: Computer Application to Business**

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**QUESTION 1: (Part A)**

**ANSWER: System Software**

System software is a computer software designed to operate the computer hardware, to provide a basic functionality and to provide a platform for running Application software.

**Importance of System Software:**

System software is very important for a devise to run more effectively and efficiently because it performs different functions in a computer which are mentioned below.

* It runs the hardware parts of the computer and other Application software.
* It convert all human instructions into machine understandable instructions.
* It also controls the operations of devices such as printer, Disk, Tape etc.
* It provides support to development of other Application software.
* It supports execution of other Application software.

Here are the following types of system software which helps performs different functions.

* Operating system
* Language processor
* Device drives

System software is a multi-functional program which helps user such as, it acts as interface between hardware and user Application.

Interface is needs because hardware devices or machine and human speak in different languages. English is a pre-dominant language of interacting with computer system software convert all languages into machine understandable language.

**Question 1: PART B**

**Open source software:**

A software whose source code is freely distributed with a license to study, change and further distributed to anyone for any purpose is called open source software.

**Advantages of Open source software:**

1. It has no or Low license fee.
2. It is flexible due to customization.
3. It provides security.
4. It has very less cost.
5. Quality and customizability is much better.
6. It is transparent.

**Question 2:**

**PART A**

**Answer.**

**Difference between magnetic and optical storage**

|  |  |
| --- | --- |
| **Magnetic storage** | **Optical storage** |
| 1. It stores data in magnetic form | It stores data by using a laser. |
| 1. Data is affected by magnetic field. | Data is not affected by magnetic field. |
| 1. It has high storage capacity. | It has less storage capacity. |
| 1. Easy to modify data. 2. They mostly comes with built- in drives. 3. It is faster data read and write. 4. It is not as safe as optical storage devices to take around. | Difficult to modify data.  They requires additional drives to function.  Slower data read and write.  It is easy and safe to take around. |
|  |  |
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**Question 2: Part B**

**IMPORTANCE OF MAIN MEMORY:**

The main memory stores operating system software, software application and other information for the central processing unit to have fast and direct access when needed to perform tasks. It retain the open files functional even when the system is shutdown. The technology used for main memory is based on semiconductor integrated circuits. .Main memory consists of two types of memory i-e Ram and ROM. The main memory in a computer is called Random access memory. Primary memory or main memory is a computer memory that a processor or computer accesses first or directly. It allows a processor to access running execution applications and services that are temporarily stored in a specific memory location.

**Question No 3**

**Effective Use of Internet in current health emergency**

As the spread of COVID-19 accelerate, the world respond reducing outdoor activities and announced health emergency, business shutdown, markets and educational institutions closed and people become limited to their homes. The internet become the source of information for people. Through the use of internet the economy and societies start working. Through the help of internet the educational institution become able to start online audio and video teaching. The precious time of students are saved. The businesses start carrying its operations from homes and remote locations. Through the use of internet the charitable organization found it easy to reach out the poor and needy people even on disperse location. The information regarding the precautionary measures of COVID-19 are made available easily for almost every one. The internet make the health department able to share the patient figures with people for awareness. The internet make us able to use online services by all, especially children and vulnerable population; enable safe digital content sharing to support e-education, e-health, digital agriculture, e-financial services and mobile payments, and e-government platforms.

**Sectors that can benefit**

**Educational Sector**

The internet in this health emergency situation benefited the educational sector in the term of facilitating online classes where they can share content with students. The Audio and Video classes would help students by saving their time in this health emergency situation and they will be safe from the virus.

**Business Sector**

The business sector is also benefiting from the use of internet in this health and emergency situation by operating its business functions and activities from home. The businesses like Marts, restaurants and many other become able to provide home delivery services through internet and making it easy by displaying product pictures on internet.

**Health Sector**

Health sector also get benefited from the internet in this emergency situation by updating people about the COVID-19 and possible ways to avoid. Health department can share instructions through internet to facilitate people.