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**Mid Term Paper Solution/Answers**

**Question No 1 :**

1. Discuss the importance of system software and how it helps users?

**Answer :** There are two types of software

• **System software**

• **Application software**

System software includes the programs that are dedicated to managing the computer Such as operating system, Disk operating systems and file management. It helps users to control the operations of the computer hardware.

It also helps users to coordinate the functions and activities of hardware and software.

It also helps to enable all of the programs in our computer. For example: If we don’t have the windows and operating system in our system, so how can we run any type of application program.

• Because if don’t have the operating system (WINDOW) then we cannot use the computer

• So if we cannot use the computer then abviously we cannot use the application programs

• So it means system software is necessary for the computer itself and also for the users to work on it.

**Q1(b)** Write a few advantages of open source software’s?

• **Answer :** **Open source software:**

Open source software is a type of computer software with source code that anyone can inspect.

• It is open, free to copy, modify and redistribute

• The greatest advantage of open source software is that it is free to use

• It has lower costs

• It is secured

• Secured code is accessible to everyone

• Anyone can fix bugs as can found in it

• It is high quality software

• Abundant support

• Lesser hardware costs

**Q2(a)**

**Answer:**  Optical storage stores data optically which can be read/write by laser whereas magnetic storage stores data in magnetic form.Only magnetic storages are effected by magnetic fields,optical storages have no effect.Magnetic storages have high storage capacity compared to optical storages.optical storages have high data accessing than magnetic storages for eg a CD-ROM will access high data at a time compared to a floppy.Optical storage devices include CD-ROM,CD-R,CD-RW,DVD on the other hand magnetic storages include Hard Disk,Floppy DIsk,Magnetic Tape.

**Q2(b)**

**Answer:** Main memory is the main storage region of a computer and the central processor has immediate or direct access to it,the purpose of main memory is execution of any program or process.Main memory is the storage that is directly available to the CPU of a computer and is made up of RAM and ROM. RAM (Random Access Memory) purpose is to hold the data and instructions temporarily which the CPU will process. ROM (Read Only Memory) function is to hold data necessary for starting up the computer permanently , whose contents cannot be changed by the user.

**Q3:-**

**Answer:** Talking about the current health emergency we know that stepping out of our homes for the daily routine work and tasks is now a major health risk factor. With the fearing thought of being grounded at home, we are equally overwhelmed by having easy access to the internet at all times. Bringing to us an easy source to continue most routine tasks from home due to current situation. The major and prioritized problem of all, was Education. And due to internet, many schools, colleges, universities and institutions across the globe have introduced online classes and examinations from home. Having said that, many pupils now see the future of education through home schooling. The idea of using internet, specifically apps like Microsoft Teams and ZOOM for educational purposes has relieved many parents, teachers and students. Students and parents are finding it very convenient and productive to be able to continue with academic progress. Another challenging aspect of daily life was Economy. Not all but some companies have introduced work-from-home alternative. Making it very practical and convenient for jobs and company growth. Meetings are being conducted online and data work is being shared by office employees to continue the progress of their company. Internet services are helping a lot of companies to not fall into big profit losses but keeping it stable. Because of the current health emergency, even common daily task such as getting home groceries and goods is stopped in many remote areas or either advised by the government to not do so. In such case, many people have been purchasing online to get the goods delivered to homes instead of going out. This idea was thought to be very convenient and easily accessible for many. Also talking about online shopping, other than food goods, even day-to-day items are made delivered. Internet services has surely benefited countless people worldwide to continue with daily life routine even in this health risk.