Course: Computer application to business   **Program:** BBA
Semester: 4th   **Major Assignment**
Name: Naveed Ahmed   **Instructor:** Zakir Rahim
ID Number: 14773
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Q1. (a) Discuss the importance of system software and how it helps users?

System Software

System the set of one or more program that control the operation of a computer system and extends its capability.

Systems software includes operating system and the associated programs, which enable systems and computers to work.

What is Importance of system software.

Systems software includes operating system and the associated programs, which enable systems and computers to work. It provides the foundation for the infrastructure software that links and manages hardware, networks, and software together.

How system software helps users.

Systems software are programs that manage the resources of the computer system and simplify applications programming. They include software such as the operating system, database management systems, networking software, translators, and software utilities.

Q.1 (b) Write a few advantages of open source software's?

Open Source Software.

Open source software is software with source code that anyone can inspect modify, and enhance.

Open source software is code that is designed to be publicly accessible anyone can see, modify, and distribute the code as they see fit.

Advantages of Open Source Software.

There are several advantages of using open source software. The following are a list of the advantages of opting for open source software.

1. Lesser hardware costs
2. High-quality software
3. No vendor lock-in
4. Integrated management
5. Simple license management
6. Lower software costs
7. Abundant support
8. Scaling and Consolidating

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

Optical Storage Devices:

Optical storage devices are flat, round disks that spins around its centre. 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.

Basic Differences Between Optical and Magnetic Storage:

➢ Stores data as patterned image. ➢ Optical storage devices offer lesser capacity. ➢ Requires LASER light to read and write data onto the disc. ➢ Slower data read and write. ➢ Data on the disk will not be damaged by magnetic fields. ➢ Optical storages can be readable, writable and re-writable. ➢ Optical storage devices require additional drives to function. ➢ Easy and safe to take around.	➢ Stores data in magnetic form ➢ Magnetic storage devices offer much higher capacity. ➢ Doesn't require LASER heads to read and write data. ➢ Faster data read and write. ➢ Magnetic field can destroy the data stored on Magnetic storage devices. ➢ Magnetic storage devices are always readable and re-writable. ➢ Almost all magnetic storage devices come with built-in drives. ➢ Not as safe as optical storage devices to take around.

Q.2 (b) Discuss the importance of main memory?

Importance of Main Memory:

Random access memory also helps your system support software. Every piece of software requires a minimum amount of space and memory to be able to run smoothly. If your computer does not have enough RAM to support all the software systems you are running, or trying to run, they move so slow that it might not be worth running that software system. Additionally, if there is not enough storage room, the software might not run at all.

There are six types of RAM:

- ✓ EDO RAM
- ✓ SDRAM
- ✓ DDR RAM
- ✓ DDR2 RAM
- ✓ DDR4 RAM

Q no 3. Based on the discussion related to internet and its services, Elaborate the effective use of internet in current health emergency and how different sectors of life are benefiting from it?

Internet and Services of internet

To Communicate One User to another through LAN/Wireless to possible to access almost any information, communicate with anyone else in the world, and do much more.

Services of the internet

- ➤ **Electronic Mail (E-Mail)** Allow user to send a mail (message) to another internet user in any part of the world in a near-real-time manner,
- ➤ **File Transfer Protocol (FTP)** Allow user to move a file from one computer to another on the internet.
- ➤ **Communication Services (CS)** Allow a user to log into another computer somewhere on the internet.
- ➤ **Web Services (WS)** A Web service is a software service used to communicate between two devices on a network.
- ➤ **World Wide web (WWW)** Allow where documents and other web resources are identified by Uniform Resource Locators (URLs), interlinked by hypertext links, and can be accessed via the Internet.
- ➤ **Video conferencing (VC)** Allow to users one network to another through software and online Services like a Live News Room, Skype, Whatsapp, Facebook and many more.

How Different Sectors of life benefiting from internet.

1. Speed and time

Through internet communication, time and money are saved. This is because it is much cheaper and quicker to transfer information around. It also becomes faster and efficient to contact a business partner or a relative. We can now communicate with anyone around the world through emails and text messages instantly. The internet has also provided face-to-face communication, thanks to Skype, social media sites, video conferencing, and many other ways offered by communication companies.

2. Job creation

One major advantage of internet communication is the creation of new and exciting jobs. System analysts, computer programmers, web designers, hardware and software developers and many other new opportunities created by information communication technology (ICT).

3. Globalization

The internet has indeed brought people closer, and also helped in economic growth. It has also brought down geographical and language boundaries. The universe has become a global village due to information technology, permitting countries such as such as Japan and Ireland who are separated by language and distance, share information and ideas with one another.

4. Cost effective

It is so cheap to send an email to another country than making a phone call. The internet has also helped to systematize business practices helping businesses to cut cost.

5. Improve education sector
The internet has made it possible for numerous computer programs to be shared with different generations in different parts of the world. Important information such health, business and environment facts are easily available to any person with an internet connection.

6. Eliminates the cultural gap
The internet has helped to bridge the gap. People from different nations can easily communicate with each other, allowing the exchange of ideas and views.

The Internet is one of the greatest creations and provides people with instant access to an endless supply of knowledge and entertainment. Below is a complete list of all of the advantages of the Internet.
Internet provides many information to the users and provide many services are used for business, download files, interactions, marketing, and many benefits to our life that is, Improve our knowledge, Skill and learning capacity, Banking, Billing, Address mapping, etc.