ASSIGNMENT 1

**1. What is operating system ?**

. An operating system is a program that acts as an interface between the user and the computer hardware and controls the execution of all kinds of programs.

An operating system is a software which performs all the basic tasks like file management, memory management, process management, handling input and output, and controlling peripheral devices such as disk drives and printers.

**2. Name any five operating system ?**

Some Operating Systems:

**Dos** - Disk Operating System - one of the first operating systems for the personal computer.

**Windows** - The Windows operating system, a product of Microsoft, is a **GUI** (graphical user interface) operating system . (windows XP, window vixta, window 8,window 10)

**Fedora** - is an operating system based on the Linux kernel, developed by the community-supported Fedora Project and sponsored by Red Hat .

**Unix – Linux** (the PC version of Unix) - Unix and Linux were originally created with a command-line interface, but recently have added GUI enhancements.

**Mac OS X** - Macintosh, a product of Apple, has its own operating system with a GUI.

. Windows, Mac OS X, and Linux are three of the most popular operating systems for personal computers.

**3. Overview of the MS.DOS operating system ?**

**MS-DOS** (Microsoft Disk Operating System) is a single-user, single-tasking , computer operating system , that uses a command line interface

**MS-DOS** is a non-graphical command line operating system derived from 86-DOS that was created for IBM compatible computers. MS-DOS originally written by Tim Paterson and introduced by Microsoft in August 1981 and was last updated in 1994 when MS-DOS 6.22 was released. MS-DOS allows the user to navigate, open, and otherwise manipulate files on their computer from a command line instead of a GUI like Windows.

**4. What are the different types of computer applications?**

**Embedded Systems:**When we save a name, address and other information in to our Mobile Phone or Digital Diary , How it gets saved in it , it is Nothing but it is a small computer program 'Embedded' into a chip in the device inside the mobile phone or digital diary known as Embedded Systems.

**Windows applications:**  
Windows Applications is a form based standard Windows, Microsoft word; Paint is example to the Windows application, and also called 'Desktop applications'.

**Web Applications:**A web site is also called 'web Applications'. A web applications is a collection of web pages hosted on a special computer called 'web server'. Web server can be located anywhere and visitors can be located anywhere .It will work through Browsers (EG. Internet Explorer, Mozilla, Netscape).

**Web Services:**Web services are web applications that give services to other applications through the internet, example Google search engine, Yahoo Search engine etc. which allows other applications to delegate the task of searching over the internet.

**Console Applications:**

Console applications runs inside the command prompt i.e. DOS window, It is a light weight program and which is used commonly for test applications.

**5.what types of software used for creating letter paper and other document?**

**Word** processing, **Word**-processing is the process of creating document such as letters, reports, thesis, books and so on.

**6. What is a pixel ?**

Pixel - A pixel is the smallest unit of a digital image or graphic that can be displayed and represented on a digital display device.

**7. What are the advantages of using MS-excel?**

**Microsoft Excel is a spreadsheet program that allows users to quickly log, sort and analyze data** With Excel, users can manage payroll records, employee schedules and paperwork virtually, so data can be easily changed, updated or moved around without having to deal with paper and pen copies.

**8. which technology is used in compact disks ?**

The compact disc is an evolution of **LaserDisc** technology, where a focused **laser** beam is used that enables the high information density required for high-quality digital audio signals. Prototypes were developed by Philips and Sony independently in the late 1970s

**9. what is the file extention of ms.-word document?**

Microsoft Word uses the .docx file extension to save documents. X stands for xml (extenssib le markup language).

**10. what is the primary memory?**

Primary memory holds only those data and instructions on which computer is currently working. It has limited capacity and data is lost when power is switched off. The data and instruction required to be processed reside in main memory. It is divided into two subcategories RAM and ROM. A computer cannot run without primary memory. It is known as main memory.

**11. what is the logical memory?**

Logical memory enables the user to use large amount of data . It define the way to organize the physical memory such as RAM and cache . this enables the O.S to arrange memory into a logical manner such as assigning a logical address . Logical address is memory location and it is accessed by an application program . the system maps the logical address to real physical storage address .during the execution of the program, same logical address can b mapped to many different physical address.

**12. what is the virtual memory?**

in the Virtual Memory the Physical Memory (Hard Disk) will be treated as the Logical Memory. Means with the help of virtual Memory we can also increase the size of Logical Memory as from the Physical Memory. A user will see or feels that all the Programs are running into the Logical Memory of the Computer. With the help of virtual Memory all the Space of Hard Disk can be used as the Logical Memory So that a user can execute any Number of programs.