

**Simplifying Test Prep** 

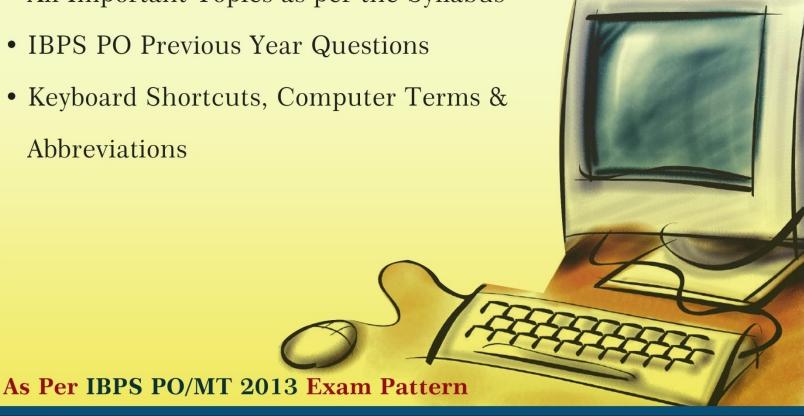
# IBPS Bank PO Exam 2013 Computer Knowledge

# Inside the E-Book



IBPS PO Previous Year Questions

• Keyboard Shortcuts, Computer Terms & **Abbreviations** 





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## **Preface**

Jagranjosh's IBPS Bank PO Exam 2013: Computer Knowledge eBook is a perfect blend of questions and concepts of Computer Knowledge, which will enable the students to score well in IBPS PO Written Examination 2013 to be held on 19 October 2013, 20 October 2013, 26 October 2013, and 27 October 2013.

IBPS Bank PO Exam 2013: Computer Knowledge eBook is prepared by Jagranjosh experts with true zeal and efforts. We have put in its extreme efforts in bringing out perfect preparation package by amalgamating all ingredients of concepts and terminology of Computers and Networking.

Our IBPS Bank PO Exam 2013: Computer Knowledge eBook will allow the candidates to get used to the time limit set for the examination and accordingly manage time.

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- All Important Topics as per the Syllabus
- IBPS PO Previous Year Questions
- Keyboard Shortcuts, Computer Terms & Abbreviations used in Computer World

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Our team at Jagranjosh.com wishes all the students appearing for the examination.

#### All the Best!

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## **Chapter: Fundamentals of Computer**

Computer is an electronic machine, which takes information as input, process it and controls the operation, which could be expressed in logical forms.

#### PRIME FUNCTIONS OF COMPUTER

- Accepts data as input
- Processes data processing
- Gives output
- Store the output for further use

Father of Computer: Charles Babbage

#### **Parameters to Judge Power of Computer**

- Speed
- Reliability
- Storage

#### TYPES OF COMPUTER

The distinctive types of Computers are as follows:

#### Micro Computers

Personal Computer is also called Micro Computer, which is available in many sizes and shapes. Their shapes and sizes vary from tiny Personal Digital Assistant to the big computer towers. The range of Personal Computer includes Palmtop (PPC), Laptop, Handheld (HPC) etc.

#### Mini Computer

These computers are more powerful as compares to Micro Computers. They have high memory, good processing speed. It is also used as server in many applications. It is multiprocessing system capable to support 4 to 200 users simultaneously. It is used to carry out tasks like Engineering and Computer Aided Designs.

#### Mainframe Computer

Mainframe computers have high memory and processing speed due to which, it is considered as heart of computer network that enable a large number of people to work at same time. These type of computers are used for large scale computing



#### • Super Computer

Super Computers are very powerful and high performance machine, which are ideally used for complex applications and scientific computations. Some examples of Super Computers are EKA, SAGA-220, Anurag.

#### **COMPONENTS OF COMPUTER**

A computer system consists of various functions that include:

#### Input Unit

An input is anything that we tell the computer to process. It is provided in form of data, program, instructions, command etc. Some input devices are keyboard, pointing devices (Mouse & Trackball), lightpen, Joystick, Scanner, and Barcode Reader

#### Central Processing Unit

Central Processing Unit processes the input by manipulating the information and also performs all processing work of computers. Its also control all the parts of computer due to which, it is called the brain of computer.

#### Memory Unit

It is one of the vital components of computer, which stores data, calculations and results into it. It transfer data to ALU and may be volatile or non volatile in nature.

#### TYPES OF MEMORY

a. **Primary Memory:** It keeps the data received from input devices and also hold the data being processed. RAM is an example of computer primary memory.

**RAM:** Random Access Memory

**EDO RAM:** Extended Data Output Random Access Memory

**D RAM:** Dynamic Random Access Memory

#### b. Secondary Memory

It is permanent memory, which stores data that remain in it forever. ROM is an example of Secondary Memory. It stands for Read Only Memory that keeps contents even without power source.

RAM: Read Only Memory



PROM: Programmable Read Only Memory

EPROM: Erasable Programmable Read Only Memory

EEPROM: Electrically Erasable Programmable Memory

#### Output Unit

An output is a data, which has been properly processed into useful form called information. We can serve the output result in storage devices for future use. Monitor, Printer, Speaker etc are Output devices.

#### TYPES OF OUTPUT

Hardcopy: This type of output is printed on paper or other permanent media.

**Softcopy:** This type of output is displayed on the screen and other non permanent means.

#### Important:

The speed of printer is measured in

• Cps: Character per second

• Lpm: line per minute

• Ppm: page per minute

#### **SOFTWARE**

Software is a set of instruction, which directs the computer to process information. It performs various functions that include controlling hardware, performing, computations, communication with other softwares. These are segregated into 3 types:

- System Software
- Application Software
- Utilities Software

#### **HARDWARE**

Hardware is a part of computer, which can be see n by the eyes and felt by touching. These hardware are also called peripheral. Some of the examples are printers, modems, scanner etc.



## **Historical Overview of Computer**

Year	Inventor	Invention		
16th Century	China	Abacus		
1617	John Napier	Napier's Bones		
1642	Blaise Pascal	First Calculating Machine		
1671	Gottfried Von Leibnitz	Calculator (Modified Pascal's machine)		
1801	Joseph Jacquard	Card of holes for weaving patterns		
1823-34	Charles Babbage	Difference Engine, Analytical Engine		
1880	Herman Hollerith	Tabulating Machine using punch cards		
	lady Ada Lovelace	Binary Number System		
1930	Howard Aitken and Grace Hopper (IBM)	MARK-I		
1937-38	Dr John Vircent Atanassoff	ABC (Atanasoff-Berry-Computer)		
1946	JP Eckert and JW Mauchly	ENIAC (Electronic Numerical and Calculator)		
1940's	H Goldshine, AW Burks and John Von Neumann	Stored Program Concept		
1947-49	John Von Neumann	EDSAC (Electronic Delayed Storage Automatic Computer)		
1950	Moor School in USA	EDVAC (Electronic Discrete Variable		



	Automatic Computer)			
		· ··accinatio compater,		
1951	Eckert and JW Mauchly	UNIVAC-I (Universal Automatic Computer)		
1953	Bell Laboratory of America	Transistor		
1954	IBM Company	IBM-650 Computer		
1957	John Backus, IBM	Fortran		
1958	Jack Kilby and Robert Noyce	Integrated Circuit		
1959	Grace Hopper	COBOL		
1964	John Kemeny and Thomas Kurtz	BASIC		
1969	America	ARPANET		
1971	Ted Hoff	Intel 4004		
1973	Xerox Corporation Company	Xerox Alto		
1976	Steve Wozniak	Apple-1		
1980	Microsoft Corporation	MS DOS		
1981	IBM Company	First PC of IBM		
1984	Apple Company	Macintosh PC of Apple		
1988	Intel Company	Intel 486 Microprocessor		
1991	Tim Berners-Lee	Law of WWW		



1992	Jeremy and JJ Allaire	Windows 3.1		
1997	Intel	Pentium-2		
1999	Intel	Pentium-3		
2000	Intel	Pentium-4 or uses of operating systems		
2003	Allen B. Dumont	LCD Monitor		
2004	Richard Stallman	Linux		
2006	Microsoft Corporation	Window Vista		
2007	Google	Android Operating System		
2008	-	Language Operating System		
2009	-	Window Explorer 8		
2010	Intel	Intel® core TM processor		
2011	НР	Webos Tablet		



## **Generations of Computer**

Generation	Year	Switching Device	Storage Device	Speed	Operating system	Language	Application
First	1940- 1956	Vacuum Tubes/Elect ronic Valves	Acousti c delay lines and later magnet ic drum.  1KB memo2 ry	333 micro second s	Mainly Batch operating system	Machine and assembly language s.	Mostly scientific; later simple business systems.
Second	1956- 1963	Transistors	Magnet ic core, main memor y, tape and disk periphe ral memor y. 100 KB main memor y	10 micro second s	Multi-Bag remaining , time sharing	High level language s, Fortran, Cobol, Algol, Batch operating systems	Extensive business applications . Engineering design optimizatio n scientific research.
Third	1964- 1971	Integrated circuits	High speed magnet ic cores.	100 nano second s	Real time, time sharing	Fortran IV, Cobol 68 PI/I. Time sharing operating	Data base managemen t systems, Online systems.



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			disks 100 MB. 1 MB main memor y			system	
Fourth	1971- Present	Large scale integrated circuits. Microprocessors (LSI)	Semico nductor memor y, Winche ster disk. 10 MB main memor y. 1000 MB disks	300 nano second s	Time sharing networks	Fortran 77, Pascal ADA, Cobol-74	Personal computers, Distributed systems. Integrated CAD/CAM. Real time control. Graphics oriented systems.
Fifth	Still in developm ent phase	KIPS (Knowledge Information Processing Systems) and V V L S I (Very-Very Large Scale Integration) known as Artificial Intelligence (AI)	-	-	-	-	Information managemen t, natural language, processing, speech, character and image recongnitio n and artificial intelligence.



## **Chapter: Input and Output System**

#### **Input System**

An input device is a peripheral or piece of computer hardware equipment, which is used for providing data and controlling signals to an information processing system (Computer).

#### TYPES OF INPUT DEVICES

- 1. **Keyboard:** It is human interface device, which is represented as a layout of buttons. Each button or key could be used to input linguistic character to a computer for particular functions.
- 2. **Pointing Devices (Mouse & Trackball):** These are any human interface devices that allow users to input spatial data to a computer. Eg: mouse, trackball, Glidepad
- 3. **Game Devices**: The motion of cursor is controlled by joystick or arrow buttons (Game Pad)
- 4. **Pen Input:** It is especially used in Personal Digital Assistant (PDA). It is used for Data input, Pointing Device, and Command Gesture etc.
- 5. **Touch Screen:** The touchscreen enables the selection by just touching the screen.
- 6. **Digitizers and Graphic Tablet:** The Tablets have Special Command for the conversion of drawing and photos.
- **7. Page Scanner:** It works like copy machine and captures whole image for converting to the digital image.
- **8. Hand Scanner**: It can move across document or picture. It can capture only a section of a page or a large image.
- **9. Bar Codes**: It is used at the retail shops to track inventory and calculate the sale at the checkout counter.
- **10. Optical Character**: It uses letters or special characters that are especially shaped t be easy for the machines to read.



#### **Output System**

An Output System is computer hardware equipment, which is used to communicate the result of data processing system.

#### TYPES OF OUTPUT DEVICES

1. Printer: A printer prints the content on the monitor onto a paper. The speed of a printer could be measured in character per second (cps), line per minute (lpm), and page per minute (ppm). The quality of prints can be measured in DPI (Dot Per Inch). There are two types of printer:

#### **Impact Printer**

- a) Dot Matrix Printer
- b) Daisy Wheel
- c) Chain & Band Printers

#### **Non Impact Printer**

- a) Inkjet Printer
- b) Thermal Printer
- c) Laser Printers
- Screen (Monitor): The Monitor is a screen on which words, numbering, and graphic could be seen. The device that displays computer output has various names comprising
- a) Screen
- b) Monitor
- c) Visual Display Terminal
- d) Cathode Ray Tube
  - e) Visual Display Unit
  - f) Liquid Crystal Display

#### TYPES OF SCREEN

- a) Monochrome
- b) Color
- c) CRT
- d) LCD
- e) Plasma Screens



#### **SOME OTHER OUTPUT DEVICES ARE AS FOLLOWS:**

- Data projector
- Large Format Printers
- Microfilms
- Speaker
- Headphones
- Floppy Disk
- Computer Disk



## **Chapter: Processing System**

#### **PROCESSING SYSTEM**

Processing System mediates between the input system and output system, which is process of thinking as done by the computer.

**Processing Systems includes** 

- Calculations
- Comparisons
- Decisions

The thinking process in the computer is done by manipulating the digital digits as all information in modern computer is stored as a string of zeros or ones off or on.

1bit= one on or off position 1 byte = 8 bits

The entire processing part occurs in the central processing unit of the computer system.

#### **COMPONENTS OF PROCESSING UNITS**

#### **Central Processing Unit (CPU)**

Central Processing Unit or CPU is also known as the brain of computer where entire processing is done. Most of the computers contain one processing chip.

#### **CONTROL UNIT (CU)**

This is the part of the computer, which controls the machine cycle. It takes a number of cycles to do even a simple addition of two numbers.

It performs the various functions:

- Fetch: It gets an instruction from main memory.
- Decode: It translates it into computer commands.
- **Execute:** It processes the command.
- Store: It writes the result to main memory.



#### ARITHMETIC LOGIC UNIT (ALU)

- It is the part, which executes the computer's commands.
- It does either a basic arithmetic operation or the logical comparisons.
- The arithmetic operation may include+ \* /
- The logical comparisons may include > < = not =</li>

#### **Machine Cycle**

Fetch In this cycle an instruction is fetched from the main memory.

**Decode** In this cycle, the fetched instruction is translated into the computer commands.

**Execute** In this cycle, the command is actually processed.

Store In this cycle, the result is written into the main memory.

The immense speed of the computer enables it to do millions of such steps in a second.

#### **MEMORY ADDRESSES**

A memory address holds 1 byte of data where

- 1 bit = 0 or 1/on or off
- 1 byte = 8 bits
- 1 kilobyte = 1024 bytes
- 1 megabyte = 1024 kilobytes (K or KB)

#### **PROCESSOR SPEED**

- Processor speed is affected by system clock rate.
- The rate of an electronic pulse is used to synchronize processing.
- It is measured in megahertz (MHz) where 1 MHz = 1 million cycles per second or in gigahertz (GHz) where 1 GHz = 1 billion cycles per second

#### PHYSICAL COMPONENTS OF COMPUTER

The Physical Components of a computer are directly involved in processing. They are

Microprocessor



- Memory device
- Motherboard

#### **MICROPROCESSOR**

- This is a single silicon chip containing CPU, ALU and some memory.
- The microprocessor chip is located on a large circuit board called the main board or motherboard.
- The physical size of a computer chip is very small.

#### **MEMORY DEVICES**

They may include

**Vacuum Tube** This is the oldest type that cannot hold up long and generate a lot of heat.

**Core** These are small metal rings that represents on and off. They are relatively slow.

**Semi Conductor** This is integrated circuit on a chip. The modern computers use this for their memory.

#### Motherboards

The motherboards have a number of slots for memory and all the slots contain the same size memory board.

#### Connectors

This is the slot where cables connect to motherboard for the things like hard drives, floppy drives and CD Rom drives.

#### **ISA Slots**

This board has three slots for the things like video cards, sound cards, internal modems etc.

#### **Keyboard Plug**

This is the slot where the keyboard attaches through the back of computer.



#### **MEMORY SLOTS**

- There are four short slots for the semiconductor memory.
- This board has two long slots for a new kind of memory called DIMM DRAM.
- This board can support a maximum of 256 MB of memory.

#### **PCI Slots**

This board contains four slots for the peripherals like video cards, internal modems, sound cards etc.

#### **Power Connection**

This is the slot where power supply connects to the motherboard.

#### **Processor Socket**

This is the slot where the processor plugs into the motherboard.



## **Chapter: Computer Storage**

#### Introduction

Storage is a media and methods, which is used to keep information available for later use.

#### **COMPUTER STORAGE IS OF TWO TYPES**

- Primary Storage
- Secondary Storage

#### **PRIMARY STORAGE**

- It is the main memory of computer.
- It keeps track of current processing
- It is volatile, i.e., turning the power off erases all of the data.
- For main memory, computers use RAM or Random Access Memory.
- These memory chips are the fastest, but most expensive type of storage.

Main Memory = Primary Storage

#### **SECONDARY STORAGE**

- It is the auxiliary storage of computer.
- It keeps track of what is not currently being processed.
- It is the stuff that is 'Filed away', but is ready to be pulled out when needed.
- It is non-volatile, *i.e.*, turning the power off does not erase the data.
- Auxiliary storage is used for input data and programs as well as saving the result of processing.

Auxiliary Storage = Secondary Storage

#### **Magnetic Disks**

These are commonly used type of auxiliary storage. They come in numerous sizes and materials and by the method of magnetism data are stored on the magnetic surface. The advantages of



using magnetic disk is high storage capacity, reliable and providing the direct access to data. There is a drive that spins the disk very quickly underneath a read/write head. It reads data from a disk and writes data to a disk.

#### **DISKETTE/FLOPPY DISK**

These disks come in two different sizes that are

- (i)  $5\frac{1}{4}$ "
- (ii)  $3\frac{1''}{2}$

Both sizes are made of mylar with an oxide coating. This coating provides the magnetic quality for the disk.

#### **DISK FORMAT**

All the magnetic disks have the similar format. They are divided into the following areas

- (i) **Tracks** A track is a circular ring on one side of the disk and each track has a number. The diagram given here shows three tracks of a disk.
- (ii) **Sectors** A disk sector is a wedge shaped piece of the disk as shown in the given figure.

A track sector is the area of intersection of a track and a sector.

- (iii) **Clusters** A cluster is a set of track sectors, ranging from 2 to 32. 1 cluster is the minimum space used by any read or write
- (iv) Cylinders A cylinder is a set of matched tracks.

#### WHEN A DISK IS FORMATTED

- All data is erased.
- All the surfaces are checked for physical and magnetic defects.
- A root directory is created to list where things are on the disk.



#### **DISK CAPACITY**

The capacity of a magnetic disk depends on the following factors

- The number of sides used (either single-sided or double sided).
- The recording density (*i.e.*, closeness of the bits on a track sector of the innermost track).
- The number of tracks on the disk.

#### **CAPACITY OF DISKS**

- $5\frac{1}{4}$  floppy -360 KB or 1.2 MB
- $3\frac{1}{2}$  floppy -720 KB or 1.44 MB

#### **HARD DISKS**

- Early ones-20 MB
- Currently-120 +GB
- Where 1 GB = 1 gigabyte = 1024 MB

#### **ACCESSING DATA**

In order to access the data, the various steps are required that are as follows:

- (i) Seek: moves the head to proper track, which measured as seek time in terms of milliseconds.
- (ii) **Rotate:** It rotates the disk under the head to the correct sector that is measured as rotational delay in terms of milliseconds.
- (iii) **Settle** It lowers the head to disk and waits for vibrations from moving to stop. It is measured as settling time in terms of milliseconds.
- (iv) **Data Transfer** It copies data to main memory and is measured as data transfer rate in terms of Kbps.



#### **MAGNETIC TAPE**

Magnetic tapes are same as VCR tape in the way of storing data. The speed of data access can be quite slow, however, when the tape is long and whatever desired is not near the start. Therefore, this is used for mainly major backups of large amounts of data.

#### **TYPES OF MAGNETIC TAPE**

There are mainly two types of magnetic tape as Tape Reel and Tape Cassette. Each of the type has its own requirements. The older systems designed for networks use reel-to-reel tapes. Newer systems use cassettes holding more data than that of the huge reels.

#### **Tape Formats**

The magnetic tape is divided into the following format

#### Density

Higher density means more data on shorter tape. It is measured as bpi = bits per inch. It ranges from 800 bpi to 6250 bpi.

#### **Blocks**

Just as a floppy is divided into tracks and sectors, in the same way, a tape is divided into logical blocks. One file can take up a number of logical blocks, but must take up one whole block at least.

#### **GAP**

The gaps set on the tape are of two types

- (i) Interblock gap It separates logical blocks.
- (ii) Interrecord gap—It is wider and separates the records.

#### **OPTICAL DISKS**

For the optical disks, an entirely different method is used to record data. They include the various kinds of CD and DVD disks.

#### **FEATURES OF OPTICAL DISKS**

- They are formed of layers.
- Data are arranged in a spiral groove on starting from the centre of the disk.



- Digital data are in form of 1's and 0's.
- The different types of optical disks use different materials and methods to absorb and reflect the light.
- The absorption and reflection of laser light is read as a '1' or a '0' by the computer.
- In a

CD	DVD	Туре	Data Layer	Metal Layer
CD-ROM	DVD-ROM	Read only	Molded	Aluminium
CD-R	DVD-R DVD+R	Recordable (Once)	Organic dye	Silver, gold, silver alloy
CD-RW	DVD-RW DVD+RW	Rewritable	Phase changing metal alloy film	Aluminium

#### **READ ONLY**

- CD-ROM (Compact Disc-Read Only Memory) is the most common type of optical disk.
- It looks like an audio CD but the recording format is quite different.
- CD-ROM disks are used for computer software.
- DVD stands for Digital Video Device and are used for recording movies.
- The CDs and DVDs are of the Write Once Read Many (WORM) variety.
- They can't be changed once they are created.
- The data layer of this disk is physically molded into the polycarbonate.



#### **WRITE ONCE**

- The optical disks (CD-R, DVD-R and DVD + R) that we can record on our own computer are called writable or recordable.
- A writable disk is useful as a backup medium when we need long term storage of our data.
- The data layer for this disk is an organic dye that the writing laser changes.

#### **REWRITE**

- A rewritable disk is an option for backup storage of changing data.
  - For example CD-RW, DVD-RW, DVD + RW, DVD + RAM.
- We can erase and write on these disks as many as 1000 times, for CD-RW and even 100000 times for the DVD-RW types.
- The data layer for this disk uses a phase changing metal alloy film.

#### **ADVANTAGES OF OPTICAL DISKS**

- An optical disk is physically harder to break or melt or warp.
- It is not sensitive to being touched as it can be cleaned.
- It does not get affected by the effect of magnetic fields.
- They can hold much more data than floppy disks.
- An optical disk is a great resource to store the software and data.



#### **OTHER DEVICES**

#### **FLASH MEMORY**

- They are solid state devices that read and write data electrically, instead of magnetically.
- Devices like digital cameras, digital camcorders and cell phones use compact flash, smart media or another flash memory card.

#### **USB DRIVE**

- They are also known as flash drive, flash pen, thumb drive, key drive and mini USB drive.
- They are small in size and can plug into a USB port on the computer.
- They have storage capacities from 8 MB to 1 GB.
- Some of them include password protection and the ability to run software right off the USB drive.

#### **REMOVABLE HARD DRIVES**

- They are special drives that compress the data.
- They are regular external hard drive that can be used for back up.

#### **OPTICAL CARDS**

- A chip on this type of card holds information like health records and auto repair records.
- They can hold more data than the smart cards as they don't need to do any processing.



## **Chapter: Operating System**

#### INTRODUCTION

An operating system consists of a set of programs that controls, coordinates and supervises the activities of distinctive components of a computer system. Its function is to establish a link between the computer hardware and the user.

"An operating system is a software, or a series of programs, which performs various types of functions in order to manage and organize files."

Some of the most commonly used operating systems are MS DOS, WINDOWS, LINUX, SOLARIES, CP/M etc. Operating system can be classified as follows

**Multi-user:** It allows two or more users to run programs at the same time. Some operating systems permit hundreds or even thousands of concurrent users.

**Multi-tasking**: It enables more than one program to run concurrently.

Multi-processing: It supports running a program on more than one CPU.

**Multi-threading:** Allows different parts of a single program to run concurrently.

**Real-time Processing:** Responds to input instantly. They are used to control machinery, scientific instruments and industrial systems, general-purpose operating systems, such as **DOS** and **UNIX** are not real-time processing.

#### **FUNCTIONS OF OPERATING SYSTEM**

- Controlling the execution of various programs.
- Managing devices (like storage and retrieval of files on the disks).
- Process Management
- Memory Management
- Input/Output Management
- Information Management
- User Interface



#### **COMMON OPERATING SYSTEM MS DOS**

- The term DOS stands for Disk Operating System developed by Microsoft for micro computers.
- DOS is a single user operating system.
- It has a Character User Interface (CUI) *i.e.*, communication between a computer and the user is through characters.
- In DOS, one has to key in the commands on the prompt. Prompt is a place where commands are issued. It may look like

C:\>

or

C:\WINDOWS\>

File Extensions	Meaning
.EXE	Executable Files
.сом	Command Files
.ВАТ	Batch Files
.DOC	Document Files
.тхт	Text Files
.PRG	Program Files
.OVR	Overlays
.sys	System Files



#### **WINDOWS 95 AND WINDOWS 98**

- They are actual operating systems on their own.
- The previous versions of windows use DOS as the operating system and adding a graphical user interface which will do the multitasking.
- Windows 95 operating system can take advantage of the 32 bit processors.

#### **WINDOWS ME**

- Windows Me stands for Windows Millennium Edition.
- It is an upgrade of windows 98 released in 14 September, 2000.
- The system resources required for this operating system are significantly higher than previous versions of windows.

#### WINDOWS NT

- It stands for Windows New Technology.
- It is an operating system for client-server type networks.
- The latest version of NT has a user interface that is practically identical to Windows 95.
- Windows NT has higher demands for the disk space and memory.

#### **APPLE MACINTOSH**

- It is a multi-tasking operating system.
- It was a first graphical interface to achieve commercial success.
- Apple products are of high quality and always more expensive than comparable products.
- The current version is Mac OS X; which is version 10.



#### **UNIX**

- UNIX is an operating system developed by Bell Labs to handle complex scientific applications.
- It is a multi-user and multi-tasking operating system.
- It is a command line interface.
- X-windows is a graphical interface for UNIX that is easier to work with than windows 98.

#### **LINUX**

- Linux is an operating system similar to UNIX that is becoming more and more popular.
- It is an open source program created by Linux Torvalds at the University of Finland.
- Open source program means that the underlying computer code is freely available to everyone.
- The programmers can work directly with the code and add features.

#### **UTILITIES**

Utility-programs perform tasks related to the maintenance of our computer's health - hardware or data.

#### **FILE MANAGEMENT**

- These programs make it easier to manage our files.
- Many programs are written to help the user find files, create and organize directories, copy, move and rename files.
- The newer graphical interfaces that come with operating systems like Windows 95 have reduced the need for alternate file management programs.

#### **DISK MANAGEMENT**

- These programs involve formatting and defragmenting disks.
- Defragmenting means putting files on the disk so that the whole file is in sequence.



• These programs reduce the time to access the file.

#### **MEMORY MANAGEMENT SOFTWARE**

- It handles where the programs put their current data in RAM.
- They move certain memory-resident items out of the way.
- They increase the memory available by getting all the unused pieces together in one spot making a useable amount.

#### **BACKUP PROGRAM**

- It restores the backed up data.
- It compresses the data to take up the least space.

#### **ANTI-VIRUS PROGRAM**

- They are must have programs.
- They monitor the computer for the activity of viruses.
- Viruses are nasty little programs that copy themselves to other disks to spread to other computers.



## **Chapter: Data Determination**

#### **BASIC DATA STRUCTURES**

The computer data is made up of certain components basically called 'bits' and 'bytes'.

**Bit:** A bit (sometimes abbreviated as b) is the most basic information unit used in computing and information theory. A single bit is a one or a zero, a true or a false, a 'flag' which is 'on' or 'off' or in general, the quantity of information required to distinguish two mutually exclusive states from each other.

**Byte:** A byte is a collection of bits variable in size but now almost always eight bits. Eight -bit bytes, also known as octets, can represent 256 values (2<sup>8</sup> values, 0-255).

**Kilobyte**: It is a unit of information or computer storage equal to 1024 bytes. It is commonly abbreviated as KB, kB, Kbyte or kbyte.

The term 'kilobyte' was first loosely used for a value of 1024 bytes (2<sup>10</sup>), because 2<sup>10</sup> is roughly one thousand and powers of two are convenient for use with binary digital computers.

**Megabyte** A megabyte is a unit of information or computer storage equal to approximately one million bytes. It is commonly abbreviated as MB.

One Megabyte (MB) =  $2^{20}$  bytes

= 1024 kilobytes

**Gigabyte** A gigabyte is a unit of information or computer storage equal to approximately one billion bytes. It is commonly abbreviated as GB in writing and gig in writing or speech.

One Gigabyte (GB) =  $2^{30}$  bytes

= 1024 megabytes

**Terabyte** A terabyte is a unit of information or computer storage equal to approximately one trillion bytes. It is commonly abbreviated as TB.

One Terabyte (TB) =  $2^{40}$  bytes

= 1024 gigabytes



#### Simplifying Test Prep

Note (1) After terabytes, the counting doesn't stop there. It continues in following ways

- One Petabyte (PB) = 2<sup>50</sup> bytes = 1024 Terabytes
- One Exabyte (EB) = 2<sup>60</sup> bytes = 1024 Petabytes
- One Zettabyte (ZB) = 2<sup>70</sup> bytes = 1024 Exabytes
- One Yottabyte (YB) = 2<sup>80</sup> bytes = 1024 Zettabytes

Unit	Size	Description	
Bit	One binary digit	Stores either a binary 0 or 1	
Byte	Eight bits	One character	
Word	16 to 64 bits	One character	
Kilobyte (KB)	1 thousand bytes	About one page of double-spaced text	
Megabyte (MB)	1 million bytes	About the size of a short book	
Gigabyte (GB)	1 billion bytes	1000 short books	
Terabyte (TB)	1 trillion bytes	An entire library	
Petabyte (PB)	1 quadrillion bytes	Just about all the libraries in the US	



## Relation between Decimal, Binary, Octal and Hexadecimal

Decimal	Binary	Octal	Hexadecimal
0	0	0	0
1	1	1	1
2	10	2	2
3	11	3	3
4	100	4	4
5	101	5	5
6	110	6	6
7	111	7	7
8	1000	10	8
9	1001	11	9
10	1010	12	Α
11	1011	13	В
12	1100	14	С
13	1101	15	D
14	1110	16	E
15	1111	17	F



## **Chapter: Programming Languages**

Programming Language is a machine language (sometimes called machine code). Originally all programmers worked out every detail of the machine code, but this is hardly ever done anymore.

#### SOME IMPORTANT PROGRAMMING LANGUAGES

#### **FORTRAN**

In 1957, the first of the major languages appeared in the form of FORTRAN. Its name stands for **'FORmula TRANslation'** system. The language was designed at IBM for scientific computing. The components were very simple and provided the programmer with low level access to the computer's innards. Today, this language is considered restrictive as it only includes IF, DO and GOTO statements.

#### COBOL

Its name stands for 'Common Business Oriented Language'. It was designed from the ground up as the language for businessmen. Its only data types were numbers and strings of text.

#### LISP

In 1958, John McCarthy of MIT created the LIST Processing (or LISP) language. It was designed for Artificial Intelligence (A I) research.

#### ALGOL

The ALGOL language was created by a committee for scientific use in 1958. It's major contribution is being the root of the tree that has led to such languages as Pascal, C, C++ and Java. It was also the first language with a formal grammar.

#### **Pascal**

Pascal was begun in 1968 by Niklaus Wirth. Its development was mainly out of necessity for a good teaching tool.

#### C

C was developed in 1972 by Dennis Ritchie while working at Bell Labs in New Jersey. The transition in usage from the first major languages to the major languages of today occurred with the transition between Pascal and C.



#### C+ +

C+ + was designed to organize the raw power of C using OOP, but maintain the speed of C and be able to run on many different types of computers. C++ is most often used in simulations, such as games. It is the language of choice in today's Computer Science courses.

Java In the early 1990's, interactive TV was the technology of the future. Sun Microsystems decided that interactive TV needed a special, portable (can run on many types of machines) language. This language eventually became Java. In 1994, the Java project team changed their focus to the web, which was becoming 'the coal thing' after interactive TV failed. The next year, Netscape licensed Java for use in their Internet browser, Navigator. At this point, Java became the language of the future and several companies announced applications which would be written in Java, none of which came into use.

**Visual Basic** Visual Basic is often taught as a first programming language today as it is based on the BASIC language developed in 1964 by John Kemeny and Thomas Kurtz. BASIC is a very limited scope language and was designed for non-computer science people.



## Full form of some Important Languages

ALGOL	ALGOrithmic Language
BASIC	Beginner's All Purpose Symbolic Instruction Code
HLL	High Level Language
COBOL	COmmon Business Oriented Language
LOGO	Logic Oriented Graphics Oriented
ш	Low Level Language
FORTRAN	FORmula TRANslation
PROLOG	PROgramming in LOGic
SNOBOL	String Oriented Symbolic Language
COMAL	COMmon Algorithmic Language

## TYPES OF PROGRAMMING LANGUAGES

**First Generation Programming Languages:** A first generation programming language is a machine level programming language. It consists of 1's and 0's. Originally, no translator was used to compile or assemble the first generation language. The first generation programming instructions were entered through the front panel switches of the computer system.

**Second Generation Programming Languages:** A second generation programming language is a term usually used to refer to some form of assembles language. Unlike first generation programming languages, the code can be read and written fairly easily by a human, but it must be converted into a machine readable form in order to run on a computer.



**Third Generation Programming LanguagesL** A third generation language (abbreviated as 3GL) is a programming language designed to be easier for a human to understand, including things like named variables.

FORTRAN, ALGOL and COBOL are early examples of this sort of language. Most 'modern' languages (BASIC, C, C++) are third generation. Most of the 3GLs support structured programming.

**Fourth Generation Programming Languages:** A fourth generation programming language (abbreviated as 4GL) is a programming language designed with a specific purpose in mind, such as the development of commercial business software. Such languages arose after the introduction of modern, block-structured third generation programming languages, which improved the process of software development.

**Fifth Generation Programming Languages:** A fifth generation programming language (abbreviated as 5GL) is a programming language based on solving problems using constraints given to the program, rather than using an algorithm written by a programmer. Most constraint-based and logic programming languages and some declarative languages are fifth generation languages.

**Low Level Programming Languages:** A low level programming language is a language that provides little or no abstraction from a computer's microprocessor. The word 'low' does not imply that the language is inferior to high level programming languages but rather refers to the reduced amount of abstraction between the language and itself; because of this, low level languages are sometimes described as being 'closer to the hardware'.

## **High Level Programming Languages**

A high level programming language is a programming language that is more user-friendly, to some extent platform-independent and abstract from low level computer processor operations such as memory accesses.



## **Chapter: Application Software**

## INTRODUCTION

Application software are end user programs that performs the real work for users. The application software sits on top of systems software because it is unable to run without the operating system and the system utilities.

## SOME OF THE MOST IMPORTANT APPLICATION SOFTWARES ARE AS FOLLOWS

- MS Word
- MS Excel
- MS Power Point
- MS Access

These all are collectively known as the Microsoft Office package.

## **MICROSOFT WORD**

MS Word is a word processing application and is one of the most important and widely used applications found on computer.

## FEATURES OF WORD PROCESSOR

- Fast.
- Editing Features
- Permanent Storage
- Formatting Features
- Graphics
- OLE (Object Linking and Embedding)
- Alignment
- Deleting Mistakes
- Line Spacing
- Moving Cursor
- Naming a Document
- Page Breaks



- Find and Replace
   Thesaurus
- Indentation
- Header and Footer
- Page Orientation
- Spell Check
- Mail Merge
- Normal.dot
- Macros
- Layout issues
- Bullets and numbering
- Creating tables
- Auto Summarize
- Auto Correct
- Sub and superscript issues

#### **NEW FEATURES OF MICROSOFT WORD 2010**

- Remove background of Images
- Integration of Screen shot feature
- New Art Effects in Word Art
- Ligatures

## MICROSOFT EXCEL

**Microsoft Excel** is a spreadsheet-application written and distributed by Microsoft for Microsoft Windows and Mac as X. It features calculation, graphing tools, pivot tables and a macro programming language called VBA (Visual Basic for Applications).

**Worksheet** Worksheet is a grid of cells made up of horizontal rows and vertical columns. Worksheet contains 65536 rows and 256 columns.

**Row Number** Each row is given a number that identifies it, starts from 1, 2, 3, 4, ... so on.

**Column Letter** Each column is given a letter that identifies it, starts from A ... Z, AA ... AZ, BA ... BZ, ... IA-IV.

**Cell** Cell is a basic unit of worksheet where numbers, text, formulas ere, can be placed.



**Cell Pointer** Cell Pointer is a cell-boundary that specifies which cell is active at that moment.

Current Cell Current Cell is a cell which is active.

Range of Cell It is a group of contiguous cells that forms a rectangular area in shape.

**Work Book** A worksheet is a grid of cells made up of rows and columns. Multiple worksheets can be combined under a file known as work book.

**Data in Worksheet** Three types of data can be entered, numbers/characters (012345678 + - (), 1 \$; %, E, e), text and formulas.

**Formula** Formula is a sequence of values, cell address, names functions or operators in a cell that produces a new value from existing values.

**Cell Referencing** Each cell in worksheet has a unique address, when cell address is referred in formulas, it is called cell referencing.

**Relative Referencing** Cell referencing in which the cells are referred by their relative position in the worksheet relative to a particular cell.

**Absolute referencing** The cell referencing in which the cells are referred by their fixed position (absolute position) in the worksheet.

**Mixed Referencing** Combination of relative and absolute referencing is called mixed referencing.

**Functions** Functions are predefined formulas that perform calculations by using specific values, called arguments.

**Arguments** Arguments are the-values passed to the functions, using which the function carries out some task. It can be numbers, text, logical values, constants, formulas or other functions.

**Structure** The structure of a function begins with the function name, followed by an opening parenthesis, the arguments for the function separated by commas and a closing parenthesis.

**Charts** Charts/Graphs are the pictorial representation of worksheet data.

**Area Chart** An area chart emphasizes the magnitude of change over time.

**Column Chart** A column chart shows data-changes over a period of time or illustrates comparisons among item.

**Bar Chart** Bar Chart illustrates comparisons among individual items. Categories are organized vertically and values horizontally.



**Line Chart** Line Chart shows trends in data at equal intervals. It is useful for depicting the change in a value over a period of time.

**Pie Chart** Pie Chart shows the proportional size of items that make up a data series to the sum of the items.

**XY** (Scatter) **Chart** XY Chart shows the relationships among the numeric values in several data series or plots two groups of numbers as series of XY coordinates.

## **NEW FEATURES OF MICROSOFT EXCEL 2010**

- Quickly, intuitively filter large amounts of information using new slicer functionality and enhance your Pivot Table and Pivot Chart visual analysis.
- Easily customize the improved Ribbon to make the commands you need most accessible. Create custom tabs or even customize built-in tabs. With Excel 2010, you are in control.
- You can work with other people simultaneously on the same workbook in almost any
  web browser using Excel Web Application.
- Share Point Excel Services lets you share your easy-to-read workbooks in a web browser with your team while maintaining a single version of the workbook.
- It is much easier to create and manage your workbook- when you can work the way you want to work.

## **Programming**

Excel offers users the useful ability to write code using the programming language—Visual Basic for Application (YBA). Programmers write this code using an editor viewed separately from the spreadsheet.



## **NEW EXCEL 2007 FORMATS**

Format	Extension
Excel Workbook	.xlsx
Excel Macro- enabled Workbook	.xlsm
Excel Binary Workbook	.xlsb
Excel Macro- enabled Template	.xltm
Excel Add-in	.xlam

## MICROSOFT POWERPOINT

The application software that can create professional looking visual aids is called Presentation Graphics Software. The best form of visual images are graphics and pictures. A graphic object is any written or diagrammatic representation, like graphs, figures and diagrams.

# POWERPOINT IS THE PRESENTATION GRAPHICS PART OF MS-OFFICE SUITE

- PowerPoint can create various presentations materials like; charts, graphics, slides, handouts, overheads etc.
- Power Point even creates slide shows, which are electronic presentations that you can run on your computer screen or a projection devices.



## **POWERPOINT PROVIDES THREE TYPES OF MOVEMENTS**

- 1. Entrance, emphasis and exit of elements on a slide itself are controlled by what PowerPoint calls Custom Animations.
- 2. Transitions, on the other hand are movements between slides. These can be animated in a variety of ways.
- 3. Custom animation can be used to create small storyboards by animating pictures to enter, exit or move.

#### **NEW FEATURES OF MICROSOFT POWERPOINT 2010**

- Use new and improved picture editing tools-including versalite artistic effects and advanced correction, colour and cropping tools-to finetune every picture in your presentation to look its absolute best.
- Add dynamic 3-D slide transitions and more realistic animation effects to grab your audience attention.
- Use new co-authoring capabilities to edit the same presentation, at the same time, with people in different locations. You can even communicate as you work, directly from PowerPoint.
- Easily customize the improved Ribbon to make the commands you need most accessible. Create custom tabs or even customize built-in tabs. With PowerPoint 2010, you are in control.
- ➤ In addition, PowerPoint 2010 enables you to work simultaneously with other people or post your presentation online and access it from virtually anywhere using the web or your smart phone.

## **PRESENTATION TIPS**

- Knowing the level of knowledge of the audience towards the concept of presentation.
- To persuade the audience successfully, the user must not display more or less information than required.
- Using white spaces efficiently to set the things off.



- Not to including too much information on a slide or graphic.
- Using of text on a slide should be judiciously or self explanatory.
- Avoiding the colours that clash with each other.

## **COMPONENTS OF A SLIDE**

- Title
- Subtitle
- Drawing Objects
- ClipArt and Pictures
- Slide Components Used for Reference
- Handouts
- Speaker Notes
- Outlines

## MICROSOFT ACCESS

**Microsoft Office Access,** previously known as **Microsoft Access,** is a relational database management system from Microsoft that combines the relational Microsoft Jet Database Engine with a graphical user interface and software development tools. Access is a member of the Microsoft Office suite of applications and is included in the professional and higher versions for windows and also sold separately.

**Database Management System (DBMS):** A database is a collection of data of a particular type. A DBMS is an organized collection of data viewed as a whole, instead of a group of separate unrelated files.



# **Chapter: Networking and Internet**

## INTRODUCTION

Computer networking means communication between a group of two or more computer systems linked together. Networks are built with a mix of computer hardware and computer software.

# THE MOST COMMONLY DISCUSSED CATEGORIES OF COMPUTER NETWORKS INCLUDE THE FOLLOWING

- Local Area Network (LAN)
- Wide Area Network (WAN)
- Metropolitan Area Network (MAN)
- Storage Area Network (SAN)
- System Area Network (SANO)
- Server Area Network (SAN)
- Small Area Network (SAN)
- Personal Area Network (PAN)
- Desk Area Network (DAN)
- Controller Area Network (CAN)
- Cluster Area Network (CAN)

LANs and WANs were the original flavours of network design.

## LOCAL AREA NETWORK (LAN)

A LAN connects network devices over a relatively short distance. It is a system in which
computers are interconnected and the geographical spread may be within a building to
1 kilometer.



#### **TYPE OF LAN**

- Star LAN
- Ring LAN
- Bus LAN

**Metropolitan Area Network (MAN):** It is a data network designed for a town or city. This type of network is spread over a city. It connects an area larger than a LAN but smaller than a WAN, such as a city, with dedicated or high performance hardware.

## Wide Area Network (WAN)

A WAN is a geographically dispersed collection of LANs. It is like the internet spans most of the world. In IP networking, the router maintains both a LAN address and a WAN address.

#### **TYPES OF WAN**

- Public Networks
- Public Switched Telephone Networks (PSTN)
- Public Service Digital Network (PSDN)

## INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

- ISDN is used for voice, video and data services.
- It uses digital transmission.
- It combines both circuit and packet switching.

## PRIVATE NETWORK

- Private Network provides services at various locations using private or leased circuits by using technology of its choice.
- It is mostly used to carry large volume of data at very high speed transmission.
- It uses Modem's multiplexes and other communication devices.

**Network Topology :** Topology is the geometric arrangement of a computer system. Each computer system in a topology is known as a node. Network topology is determined only by the configuration of connections between nodes.



**Bus Topology:** A bus topology is such that there is a single line to which all nodes are connected and the nodes connect only to this bus.

**Mesh Topology:** This type of network topology contains at least two nodes with two or more paths between them.

**Ring Topology:** In this network topology, every node has exactly two branches connected to it. The ring is broken and cannot work if one of the nodes on the ring fails.

**Star Topology:** In this network topology, the peripheral nodes are connected to a central node, which rebroadcasts all transmissions received from any peripheral node to all peripheral nodes on the network, including the originating node.

**Tree Topology:** This is a network topology in which nodes' are arranged as a tree. The function of the central node in this topology may be distributed.

#### **CLIENT-SERVER NETWORKING**

- It is a network application architecture which separates the client from the server.
- It is a scalable architecture, where each computer or process on the network is either a client or a server.

Features of Server	Features of Client
Passive (Slave)	Active (Master)
Waiting for requests	Sending request
On getting requests serves them and sends the reply	Waits until the response comes

- The interaction between client and server is often described using sequence diagrams.
- Sequence diagrams are standardized in the UML.



## PEER-TO-PEER NETWORKING

- It is also known as P2P networking.
- This computer network relies on computing power at the edges of a connection rather than in the network itself.
- It is used for sharing content like audio, video, data or anything in digital format.
- P2P network can also mean grid computing.

## **INTERNET**

The Internet is a global network of interconnected network, enabling users to share information along multiple channels. A computer that connects to the internet can access information from a vast array of available servers and other computers by moving information from them to the computer's local memory.

## **SERVICES OF INTERNET**

**E-mail:** The Internet enables user to exchange data/information and communicate *via* electronic media. E-mail messages are usually encoded in American Standard Code for Information Interchange (ASCII) text.

**Chat:** Chat is the exchange of typed message by people. It enables people to 'talk not vocal' by typing and sending the messages back and forth.

**Video Conferencing:** A service that allows a group of users to exchange video information over the Internet. It includes an audio teleconference facility.

## **IMPORTANT POINTS REGARDING INTERNET**

- TCP/IP (Transmission Control Protocol/Internet Protocol)
- PPP (Point to Point Protocol)
- www (World Wide Web)
- CNEB
- Gopher
- WAIS
- Mosaic
- Archie



#### Hypertext

#### **WIRELESS LAN**

A Wireless LAN or WLAN is a Wireless Local Area Network that uses radio waves at its carrier - the last link with the users is wireless, to give a network connection to all users in the surrounding area. Areas may range from a single room to an entire office.

## INTERNET PROTOCOL SUITE

The Internet protocol suite is the set of communications protocols that implement the protocol stock on which the Internet and most commercial networks run.

## FILE TRANSFER PROTOCOL

FTP or File Transfer Protocol is a commonly used protocol for exchanging files over any network that supports the TCP/IP protocol (such as the Internet or an Intranet). There are two computers involved in an FTP transfer-a server and a client.

## INTERNET SERVICE PROVIDER

An Internet Service Provider (ISP) is a business or organization that offers users access to the Internet and related services. Many but not all ISPs are telephone companies.

## **NETWORK SERVICE PROVIDER**

A Network Service Provider (NSP) is a business or organization that sells bandwidth or network access by providing direct backbone access to the Internet and usually access to its Network Access Points (NAPs).

## WEB SERVER

A web server is a program that using the client/server model and the World Wide Web's Hyper Text Transfer Protocol (HTTP). Serves the files that form Web Pages to Web users (whose computers contains HTTP clients that forward their requests).

#### **Client Server**

Client Server is a network architecture which separates the client from the server.



## **Proxy Server**

A Proxy Server is a computer that offers a computer network service to allow clients to make indirect network connections to other network services.

#### WEBSITE

A Website is a collection of web pages, typically common to a particular domain name or subdomain on the World Wide Web on the Internet.

- Static Website
- Dynamic Website

#### **WEB PAGE**

A Web Page is a resource on the World Wide Web, usually in HTML/XHTML format with hypertext links to enable navigation from one page or section to another.

A web page can contain content which is able to be seen or heard by the end user. These elements include, but are not limited to

- Text
- Graphics, typically GIF, JPEG or PNG formats
- Audio, typically MIDI or WAY formats
- Macromedia Flash
- Hyperlinks

**Dynamic Web Page:** Dynamic Web Pages can be defined as Web Pages containing dynamic content (example-images, text, form fields etc) that can change/move without the web page being reloaded.

## **HOME PAGE**

- It is the first page that the link/site takes the user to.
- It most often refers to the initial or main web page of a website.



• It is a personal web page, for example at a web hosting service or a university website that typically is stored in the home directory of the user.

## UNIFORM RESOURCE LOCATOR

A Uniform Resource Locator CURL) is the another name for web address or website address. It is basically a string of characters which refers to a resources on the Internet. *e.g.*, the URL of 'Google' search engine is 'wwwgoogle.com'.

## ANDROID (OPERATING SYSTEM)

Android is a mobile operating system initially developed by Android Inc. Android was purchased by Google in 2005. Android is based upon a modified version of the Linux Kernel. Android has a large community of developers writing application programs Capps) that extend the functionality of the devices.

## WIRELESS APPLICATION PROTOCOL (WAP)

Wireless Application Protocol (WAP) is an open international standard. A WAP browser is a commonly used Web browser for small mobile devices such as cell phones.

#### **WEB ADDRESSES**

Web addresses start with the name of a protocol, which is called a *HTTP* (Hyper Text Transfer Protocol). HTTP means that the resource in question will be found on a web server.



# **Chapter: General Keyboard shortcut Keys**

Ctrl+C	Сору
Ctrl+x	Cut
Ctrl+V	Paste
Ctrl+z	Undo
Delete	Delete
Shirt-Delete	Delete the selected item permanently without placing the item in the Recycle Bin
Ctrl while dragging an item	Copy the selected item
Ctrl+Shift while dragging an item	Create a shortcut to the selected item
F2 key	Rename the selected item
Ctrl+Riqht Arrow	Move the insertion point to the beginning of the next word
Ctrl+Left Arrow	Move the insertion point to the beginning of the previous word
Ctrl+Down Arrow	Move the insertion point to the beginning of the next paragraph
Ctrl+Up Arrow	Move the insertion point to the beginning of the previous paragraph
Ctrl+Shift with any of the arrow keys	Highlight a block of text
Shift with any of the arrow keys	Select more than one item in a window or on the desktop



Ctrl+A	Select all
F3 key	Search for a file or a folder
Alt+Enter	View the properties for the selected item
Alt+F4	Close the active item, or quit the active program
Alt-Enter	Display the properties of the selected object
Alt-Spacebar	Open the shortcut menu for the active window
Ctrl+F4	Close the active document in programs
Alt+Tab	Switch between the open items
Alt+Esc	Cycle through items in the order that they had been opened
F6 key	Cycle through the screen elements in a window or on the desktop
F4 key	Display the Address bar list in My Computer or Windows Explorer
Shift+F10	Display the shortcut menu for the selected item
Alt+Spacebar	Display the System menu for the active window
Ctrl+Esc	Display the Start menu
Alt+U	Underlined letter in a menu name
F10 key	Activate the menu bar in the active program
Right Arrow	Open the next menu to the right, or open a submenu



Left Arrow	Open the next menu to the left, or close a submenu
F5 key	Update the active window
Backspace	View the folder one level up in My Computer or Windows Explorer
Esc	Cancel the current task
Ctrl+Shift+Esc	Open Task Manager
Ctrl+Shift+Esc	Open Task Manager



## **Keyboard Shortcuts**

Ctrl+Tab	Move forward through the tabs
Ctrl+Shift+Tab	Move backward through the tabs
Tab	Move forward through the options
Shift+Tab	Move backward through the options
Alt+Underlined letter	Perform the corresponding command or select the corresponding option
Enter	Perform the command for the active option or button
Spacebar	Select or clear the check box if the active option is a check box
Arrow keys	Select a button if the active option is a group of option buttons
FI key	Display Help
F4 key	Display the items in the active list
Backspace	Open a folder one level up if a folder is selected in the Save As or Open dialog box



# **Chapter: Abbreviations Used in Computer World**

	A
AAC	Advanced Audio Coding
ABC	Atanasoft Berry Computer
ABI	Application Binary Interface
ABR	Area Border Router
ABR	Available Bit Rate
AD	Active Directory
ADC	Analog-to-Digital Converter
ADC	Apple Display Connector
AGP	Accelerated Graphics Part
АН	Active Hub
АНА	Accelerated Hub Architecture
Al	Artificial Intelligence
AJAX	Asynchronous Java Script and XMI
AL	Active Link
ALGOL	Algorithmic Language



	Simplifying lest Frep
ALU	Arithmetic and Logical Unit
AM	Active Monitor
AMD	Advanced Micro Devices
AMR	Audio Modem Riser
ANSI	American National Standard Institute
ANOL	America On-Line
	В
BARC	Bhabha Atomic Research Centre
BASIC	Beginner's All purpose Symbolic Instruction Code
BBS	Bulletin Board Service
BCD	Binary Coded Decimal
BCR	Bar Code Reader
ВЕЕР	Blocks Extensible Exchange Protocol
ВЕМА	Business Equipment Manufacturer Association
BER	Bit Error Rate
BFD	Binary File Descriptor



BGP	Border Gateway Protocol
BIN	Binary
BINAC	Binary Automatic Computer
BIOS	Basic Input Output System
ВІТ	Binary Digit
ВООТР	Bootstrap Protocol
BPEL	Business Process Execution Language
ВРІ	Bytes Per Inch
BPS	Bits Per Second
BSNL	Bharat Sanchar Nigam Limited
	С
CAD	Computer Aided Design
CAE	Computer Aided Engineering
CAI	Computer Aided Instruction
CAL	Computer Aided Learning
CAM	Computer Added Manufacturing
CAT	Computer Added Translation



CAQ	Computer Added Quality Assurance
сс	C-Compiler
CD	Compact Disc
CDAC	Centre for Development of Advanced parallel Computing
CDMA	Code Division Multiple Access
CDOT	Centre for Develpment of Telematrics
CDR	Compact Disc Recordable
CDROM	Compact Disc Read Only Memory
CDRW	Compact Dise Rewritable
CDR/W	Compact Dise-Read/Write
CG	Computer Graphics
CGA	Colour Graphics Arraay
CGI	Common Gateway Interface
	D
DAC	Digital to Analog Converter
DAP	Directory Access Protocol
DB	Database



DBMS Database Administrator  DBMS Database Management System  DCC Direct Client-to-Client  DCL Digital Command Language  DDR Double Date Rate  DES Date Encryption Standard  DFD Data Flow Diagram  DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface  DVR Digital Video Recorder		
DCC Direct Client-to-Client  DCL Digital Command Language  DDR Double Date Rate  DES Date Encryption Standard  DFD Data Flow Diagram  DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDRW DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DBA	Database Administrator
DCL Digital Command Language  DDR Double Date Rate  DES Date Encryption Standard  DFD Data Flow Diagram  DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DBMS	Database Management System
DDR Double Date Rate  DES Date Encryption Standard  DFD Data Flow Diagram  DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DCC	Direct Client-to-Client
DES Date Encryption Standard  DFD Data Flow Diagram  DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DCL	Digital Command Language
DFD Data Flow Diagram  DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DDR	Double Date Rate
DFS Distributed File System  DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DES	Date Encryption Standard
DHTML Dynamic HTML  DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DFD	Data Flow Diagram
DVD Digital Versatil Disc  DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DFS	Distributed File System
DVD Digital Video Disc  DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DHTML	Dynamic HTML
DVDR DVD-Recordable  DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DVD	Digital Versatil Disc
DVDROM DVD-Read Only Memory  DVD RW DVD-Re Writable  DVI Digital Visual Interface	DVD	Digital Video Disc
DVD RW DVD-Re Writable  DVI Digital Visual Interface	DVDR	DVD-Recordable
DVI Digital Visual Interface	DVDROM	DVD-Read Only Memory
	DVD RW	DVD-Re Writable
DVR Digital Video Recorder	DVI	Digital Visual Interface
	DVR	Digital Video Recorder



	E E
EVP	Extensible Authentication Protocol
EBCDIC	Extended Binary Coded Decimal Interchange Code
E-CL	Emitter-Coupled Logic
E-Commerce	Electronic Commerce
EDSAC	Electronic Delay Storage Automatic Calculator
EEPROM	Electronically Erasable Programmable Read only Memory
EFF	Electronic Frontier Foundation
EFI	Extensible Firmware Interface
EGA	Enhanced Graphics Array
EGA	Exterior Gateway Protocol
EIO	Electronic ID Card
ELM	Electronic Mail
E-Mail	Electronic Mail
ENIAC	Electronic Numerical Integrated And Computer
EOF	End Of File
EOL	End Of Line



ЕОМ	End Of Message
EPROM	Erasable Programmable Read Only Memory
EXE	EXExcutable
	F
FAP	Forttan Assembley Program
FAT	File Allocation Table
FAQ	Frequently Asked Questions
FDD	Floppy Disk Drive
FIFO	First IN First Out
FHS	File System Hierarchy Standard
FORTRAN	Formula Translation
FSK	Frequency Shift Keying
FTP	File Transfer Protocol
	G
Cb	Gigabit
GB	Gigabyte
GCR	Group Code Recording



GDI	Graphics Device Interface
GIF	Graphics Interchange Format
GPU	Graphics Processing Unit
GUI	Graphical User Interface
	Н
HAL	Hardware Abstraction Layer
нсі	Human Computer Interaction
HDD	Hard Disk Drive
HD DVD	High Definition DVD
HDL	Hardware Description Language
нно	Hybrid Hard Drive
HID	Human Interface Device
HIG	Human Interface Guidelines
HLL	High Level Language
HPFS	High Performance File System
нѕм	Hierarchical Storage Management
нтм	Hierarchical Temporal Memory



HTML	Hypertext Markup Language
нттр	Hypertext Transfer Protocol
	I
IBM	International Business Machines
ICMP	Internet Control Message Protocol
ICP	Internet Cache Protocol
IDL	Interface Definition Language
IE	Internet Explorer
IGMP	Internet Group Managment Protocol
IGRP	Interior Gateway Routing Protocol
IHV	Independent Hardware Vender
IIOP	Internet Inter-Orb Protocol
IIS	Internet information Srevices
IM	Instant Messaging
IMAP	Internet Message Access Protocol
1/0	Input/Output
IP	Internet Protocol



IPC	Inter-Process Communication
IPP	Internet Printing Protocol
IP Sec	Internet Protocol Security
IPTV	Internet protocol Television
IPX	Internet work Packet Exchange
IRC	Internet Relay Chat
IRP	I/O Request Packet
IRQ	Interrupt Request
IS	Information System
ISC	Internet Storm Centre
	J
J2CE	Java 2 Cryptographic Edition
JDS	Java Desktop System
JNI	Java Native Interface
JPEG	Joint Photographic Experts Group
	К
КВ	Kilobit



КВ	Kilobyte
KBPs	Kilobit Per Second
KBPS	Kilo Byte per Second
KHz	Kilohertz
	L
LAN	Local Area Network
LCD	Liquid Crystal Display
LIFO	Last In First Out
LSB	Least Significant Bit
LSI	Large Scale Integration
	М
MAN	Metropolitan Area Network
MANET	Mobile Ad-Hoc Network
Mb	Megabit
МВ	Megabyte
MBCS	Multi Byte Character Set
MBR	Master Boot Record



MDI	Multiple Document Interface
MICR	Magnetic Ink Character Recognition
MIDI	Music Instrument Digital Interface
МІМО	Multiple-Input Multiple-Output
MIPS	Million Instructions Per Second
MIME	Multipurpose Internet Mail Extensions
ММХ	Multi-Media Extensions
MNG	Multiple-image Network Graphics
MPEG	Motion Pictures (Coding) Experts Group
MPL	Mozilla Public License
	N
NACS	Netware Asynchronous Communication Services
NAL	National Aerospace Laboratories
NEXT	Near End Cross Talk
NFS	Network File System
NIC	Network Interface Card
NNTP	News Transfer Protocol



NOp	No Operation
NT (Windows)	New Technology
NTP	Network Time Protocol
	O
OCR	Optical Chatrachte Reader
OMR	Optical Mark Reader
ООР	Object Oriented Programming
OPML	Outline Processor Markup Language
os	Operating System
oos	Open Source Software
	Р
P2P	Peer-to-Peer
PAN	Personal Area Network
PAP	Password Authentication Protocol
РАТА	Parallel AT A
PC	Personal Computer
PCI	Peripheral Component Interconnect



PCIE	PCI Express
PCL	Printer Command Language
PCMCIA	Personal Computer Memory Card 'International Association
PDA	Personal Digital Assistant
PDF	Portable Document Format
POL	Program Design Language
PGA	Pin Grid Array
PIC	Peripheral Interface Controller
PIC	Programmable Interrupt Controller
РОР	Post Office protocol
РОР	Point Of Presence
POS	Point Of Sales
PPC	Power PC
PPI	Pixels Per Inch
PROM	Programmable Read Only Memory
PSTN	Public Switched Telephone Network
PSU	Power Supple Unit



	Simplifying lest Frep
	Q
QDR	Quad Data Rate
QFP	Quoted For Permanence
QoS	Quality of Service
	R
RADIUS	Remote Authentication Dial In user Service
RAID	Redundant Array of Independent Disks
RAM	Random Access Memory
RARP	Reverse Address Resolution protocol
RDSMS	Relational Database Management System
RDF	Resource Description Framework
REFAL	REcursive Function Algorithmic Language
RIP	Routing Information protocol
ROM	Read Only Memory
ROMS	Read-Out Mother Board
RPG	Report Program Generator



RTOS	Real Time Operating System
	S
SaaS	Software as a Service
SAN	Storage Area Network
SATA	Serial ATA
SAX	Simple API For XML
SBP-2	Serial Bus Protocol-2
SBU	Standard Build Unit
SCSI	Small Computer System Interface
SOL	Simple Direct Media Layer
SON	Service Delivery Network
SOR	Software-Defined Radio
SORAM	Synchronous Dynamic Random Access Memory
SLIP	Serial Line Internet Protocol
SQL	Structured Qucry Language
	Т
ТСР	Transmission Control Protocol



TCP/IPP	Transmission Control Protocol /Internet Protocol							
ТТА	True Tap Audio							
TTF	True Type Font							
TTL	Transistor- Transistor Logic							
TTS	Text-To-Speech							
ттү	Teletype							
	U							
UAC	User Account Control							
UART	Universal Asynchronous Receiver Transmitter							
UEFI	Unified Extensible Firmware Interface							
UI	User Interface							
UL	Upload							
UPS	Uninterruptible Power Supply							
URI	Unifrom Resource Identifier							
URL	Uniform Resource Locater							
URN	JRN Uniform Resource Name							
USB Uniform Serial Bus								



	Simplifying lest P	тор
	V	
VAR	Variable	
VB	Visual Basic	
VBA	Visual Basic for Applications	
VBS	Visual Baisc Script	
VDD	Virtual Device Driver	
VFAT	Virtual FAT	
VFS	Virtual File System	
VGA	Video Graphic Asrray	
VGCT	Video Graphics Character Table	
VLAN	Virtual Local Area Netwark	
VM	Virtual Memory	
VMS	Video Memory System	
VOD	Video On Demand	
VOIP	Voice Over IP	
VPN	Virtual Private Network	



VRML	Virtual Reality Modelling Language
VT	Video Terminal
	w
WAFS	Wide Area File Services
WAIS	Wide Area Information Server
WAN	Wide Area Network
WAP	Wireless Application Protocol
Wi-Fi	Wireless Fidelity
WiMAX	Worldwide interoperability for Microwave Access
WinFS	Windows future Storange
WINS	Windows Internet Naming Service
WLAN	Wireless Local Area Network
WMA	Windows Media Audio
WWID	World Wide Identifier
www	World Wide Web
	X
XAML	eXtensible Application Markup Language



XHTML	eXtensible Hypertext Markup Language
XML	eXtensible Markup Language
XMMS	X Multimedia System
XNS	Xerox Network Services
XUL	XML User Interface Language
	Υ
Y2K	Yeah Two Thousand
	z
ZIFS	Zero Insertion Force Socket
ZIP	Zone Information Protocol
ZISC	Zone Instruction Set Computer
ZMA	Zone Multicast Address



#### IBPS PO Exam 2012: Computer Knowledge: Question Paper

1 allows users to upload files to an online site so they can be viewed and edited from another location?
<ul> <li>(1) General-purpose applications</li> <li>(2) Microsoft Outlook</li> <li>(3) Wed-hosted technology</li> <li>(4) Office Live</li> <li>(5) None of these</li> </ul>
2. What feature adjusts the top and bottom margins so that the text is centered vertically or the printed page?
<ul><li>(1) Vertical justifying</li><li>(2) Vertical adjusting</li><li>(3) Dual centering</li><li>(4) Horizontal centering</li><li>(5) Vertical centering</li></ul>
3. Which of these is not a means of personal communication on the internet?
<ul> <li>(1) Chat</li> <li>(2) Instant messaging</li> <li>(3) Instant's</li> <li>(4) Electronic mail</li> <li>(5) None of these</li> </ul>
4. What is the overall term for creating? Editing Formatting Storing Retrieving and printing a text document?
<ul><li>(1) Word processing</li><li>(2) Spreadsheet design</li><li>(3) Web design</li><li>(4) Database management</li><li>(5) Presentation generation</li></ul>



5. Fourth-generation mobile technology provides enhanced capabilities allowing the transfer of
both data including full-motion video, high-speed Internet access, and
videoconferencing?
(1) Video data and information
(2) Voice and no voice
(3) Music and video
(4) Video and audio
(5) None of these
6 is a form of denial of service attack in which a hostile client repeatedly sends SYN
packets to every port on the server using fake IP addresses?
(1) Cyber gaming crime
(2) Memory shaving
(3) Syn flooding
(4) Software piracy
(5) None of these
7. Which of these is a point-and-draw device?
(1) Mouse
(2) Scanner
(3) Printer
(4) CD-ROM
8. The letter and number of the intersecting column and row is the?
(1) Cell location
(2) Cell position
(3) Cell address
(4) Cell coordinates
(5) Cell contents
9. A set of rules for telling the computer what operations to perform is called a?
(1) Procedural language
(2) Structures
(3) Natural language
(4) Command language
(5) Programming language



10. A detailed written description of the programming cycle and the program along with the test results and a printout of the program is called?							
(1) Documentation (2) Output (3) Reporting							
(4) Spec sheets							
(5) Directory							
(a) Directory							
11. Forms that are used to organize business data into rows and columns are called?							
(1) Transaction sheets							
(2) Registers							
(3) Business forms							
(4) sheet-spreads							
(5) Spreadsheets							
(3) spreadsneets							
12. In Power Point, the Header & Footer button can be found on the Insert tab in what group?							
(1) Illustrations group							
(2) Object group							
(3) Text group							
(4) Tables group							
(5) None of these							
13. A(n) is a set of programs designed to manage the resources of a computer, including							
starting the computer managing programs, managing memory and coordinating tasks between							
input and output devices?							
(1) Application suite							
(2) Compiler							
(3) Input/output system							
(4) Interface							
(5) Operating system (OS)							
14. A typical slide in a slide presentation would not include?							
(1) Photo images charts, and graphs							
(2) Graphs and clip art.							
(3) Clip art and audio clips							



<ul><li>(4) full-motion video</li><li>(5) Content templates,</li></ul>
15. The PC productivity tool that manipulates data organized in rows and columns is called a?
<ul><li>(1) Spreadsheet</li><li>(2) Word processing document</li><li>(3) Presentation mechanism</li><li>(4) Database record manager</li><li>(5) EDI creator</li></ul>
16. In the absence of parentheses, the order of operation is?
<ol> <li>(1) Exponentiation, addition or subtraction, multiplication or division</li> <li>(2) Addition or subtraction, multiplication or division, exponentiation</li> <li>(3) Multiplication or division, exponentiation, addition or subtraction</li> <li>(4) Exponentiation, multiplication or division, addition or subtraction</li> <li>(5) Addition or subtraction, exponentiation, Multiplication or division</li> </ol>
17. To find the Paste Special option, you use the Clipboard group on the tab of Power Point?
(1) Design (2) Slide Show (3) Page Layout (4) Insert (5) Home
18. A(n) program is one that is ready to run and does not need to be altered in any way?
<ul><li>(1) Interpreter</li><li>(2) High-level</li><li>(3) Compiler</li><li>(4) COBOL</li><li>(5) Executable</li></ul>
19. Usually downloaded into folders that hold temporary Internet files, are written to your computer's hard disk by some of the Web sites you visit?
(1) Anonymous files



- (2) Behavior files
- (3) Banner ads
- (4) Large files
- (5) Cookies
- 20. What is the easiest way to change the phrase, revenues, profits, gross margin, to read revenues, profits, and gross margin?
- (1) Use the insert mode, position the cursor before the g in gross, then type the word and followed by space
- (2) Use the insert mode, position the cursor after the g in gross, then type the word and followed by a space
- (3) Use the overtype mode, position the cursor before the g in gross, then type the word and followed by a space
- (4) Use the overtype mode, position the cursor after the g in gross, then type the word and followed by a space
- (5) None of these

21.	Α	program,	either	talk	or	music	that	is	made	available	in	digital	format	for	automatic
dov	vnl	oad over t	he Inte	rnet	is c	alled a			?						

- (1) Wiki
- (2) Broadcast
- (3) vodcast
- (4) Blog
- (5) Podcast
- 22. Which PowerPoint view displays each slide of the presentation as a thumbnail and is useful rearranging slides?
- (1) Slide Sorter
- (2) Slide Show
- (3) Slide Master
- (4) Notes Page
- (5) Slide Design
- 23. Different components on the motherboard of a PC unit are linked together by sets of parallel electrical conducting lines. What are these lines called?
- (1) Conductors
- (2) Buses
- (3) Connectors



(4) Consecutives
(5) None of these
24. What is the name given to those applications that combine text, sound, graphics, motion
video, and/or animation?
(1) Motion ware
(2) An graphics
(3) Videos capes
(4) Multimedia
(5) maxomedia
25. A USB communication device that supports data encryption for secure wireless
communication for notebook users is called a?
(1) USB wireless network adapter
(2) Wireless switch
(3) Wireless hub
(4) Router
(5) None of these
26. An language reflects the way people think mathematically?
(1) Cross-platform programming
(2) 3GL business programming
(3) Event-driven programming
(4) Functional
(5) None of these
27. When entering text within a document the Enter key is normally pressed at the end of every
?
(1) Line
(2) Heritance
(3) Paragraph
(4) Word
(5) File



28. When a real-time telephone call between people is made over the Internet using computers, it is called?
<ul><li>(1) A chat session</li><li>(2) An e-rnail</li><li>(3) An instant message</li><li>(4) Internet telephony</li><li>(5) None of these.</li></ul>
29. Which of the following is the first step in sizing a window?
<ul> <li>(1) Point to the title bar</li> <li>(2) Pull down the View menu to display the toolbar</li> <li>(3) Point to any corner or border</li> <li>(4) Pull down the View menu and change to large icons</li> <li>(5) None of these</li> </ul>
30. Which of the following software could assist someone who cannot use their hands for computer input?
<ul><li>(1) Video conferencing</li><li>(2) Speech recognition</li><li>(3) Audio digitizer</li><li>(4) Synthesizer</li><li>(5) None of these</li></ul>
31 a document means the file is transferred from another computer to your computer?
<ul><li>(1) Uploading</li><li>(2) Really Simple Syndication (RSS)</li><li>(3) Accessing</li><li>(4) Downloading</li><li>(5) Upgrading</li></ul>
32. Which computer memory is used for storing programs and data Ram being processed by the CPU?
<ul><li>(1) Mass memory</li><li>(2) Internal memory</li><li>(3) Non-volatile memory</li><li>(4) PROM</li><li>(5) None of these</li></ul>



33. Computers that control processes accept data in a continuous?
<ul><li>(1) Data traffic pattern</li><li>(2) Data highway</li><li>(3) Infinite loop</li><li>(4) Feedback loop</li><li>(5) Slot</li></ul>
34. What refers to a set of characters of a particular design?
(1) Key face (2) Formation (3) Allograph (4) Stencil (5) Typeface
35 is used by public and private enterprises to publish and share financial information with each other and industry analysts across all computer platforms and the Internet
<ul> <li>(1) Extensible Markup Language (EML)</li> <li>(2) Extensible Business Reporting Language (XBRL)</li> <li>(3) Enterprise Application Integration (EAI)</li> <li>(4) Sales Force Automation (SFA) software</li> <li>(5) None of these</li> </ul>
36. Which part of the computer is used for calculating and comparing?
(1) ALU (2) Control unit (3) Disk unit (4) Modem (5) None of these
37. The method of Internet access that requires a phone line, but offers faster access speeds than dial-up is the connection?
<ul><li>(1) Cable access</li><li>(2) Satellite access</li><li>(3) fiber-optic service</li><li>(4) Digital Subscriber Line (DSI)</li><li>(5) Modem</li></ul>



38 software creates a mirror image of the entire hard disk, including the operatir system, applications, files, and data?
<ul><li>(1) Operating system</li><li>(2) Backup software</li><li>(3) Utility programs</li><li>(4) Driver imaging</li><li>(5) None of these</li></ul>
39. What is a URL?
<ul> <li>(1) A computer software program</li> <li>(2) A type of programming object</li> <li>(3) Address of a document or "page" on the World Wide Web</li> <li>(4) An acronym for Unlimited Resources for Learning</li> <li>(5) a piece of hardware</li> </ul>
40. What is the significance of a faded (dimmed) command in a pull-down menu?
<ul> <li>(1) The command is not currently accessible</li> <li>(2) A dialog box appears if the command is selected</li> <li>(3) A Help window appears if the command is selected</li> <li>(4) There are no equivalent keystrokes for the particular command</li> <li>(5) None of these</li> </ul>
41. Your business has contracted with another company to have them host and run a application for your company over the Internet. The company providing this service to you business is called a?
<ul><li>(1) Internet service provider</li><li>(2) Internet access provider</li><li>(3) Application service provider</li><li>(4) Application access provider</li><li>(5) Outsource agency</li></ul>
42. An allows you to access your e-mail from anywhere?
<ul><li>(1) Forum</li><li>(2) Webmail interface</li><li>(3) Message Board</li><li>(4) Weblog</li><li>(5) None of these</li></ul>



43. Which of the following would you find on LinkedIn?
(1) Games
(2) Connections
(3) Chat
(4) Applications
(5) None of these
44 is a technique that is used to send more than one call over a single line?
(1) Digital transmission
(2) Infrared transmission
(3) Digitizing
(4) Streaming
(5) Multiplexing
45. The Search Companion can?
(1) Locate all files containing a specified phrase
(2) Restrict its search to a specified set of folders
(3) Locate all files containing a specified phrase and restrict its search to a specified set of
folders
(4) Cannot locate all files containing a specified phrase or restrict its search to a specified set of
folders
(5) None of these
46. Which of the following cannot be part of an e-mail address?
(1) Period (.)
(2) At sign (@)
(3) Space ( )
(4) Underscore (_)
(5) None of these
47. Which of the following must be contained in a LIDLO
47. Which of the following must be contained in a URL?
(1) A protocol identifier
(2) The letters, www.
(3) The unique registered domain name
(4) www. and the unique registered domain name
(5) A protocol identifier, www. and the unique registered domain name



48. Which of the following information systems focuses on making manufacturing processes more efficient and of higher quality? (1) Computer-aided manufacturing (2) Computer-integrated manufacturing (3) Computer-aided software engineering (4) Computer-aided system engineering (5) None of these 49. A mistake in an algorithm that causes incorrect results is called a (1) Logical error (2) Syntax error (3) Procedural error (4) Compiler error (5) Machine error 50. A device for changing the connection on a connector to a different configuration is \_\_\_\_\_? (1) A converter (2) A component (3) An attachment adapter (4) An adepter

(5) Voltmeter



# IBPS PO Exam 2012: Computer Knowledge: Question Paper (Answers)

Question	Answer	Question	Answer
1	3	26	4
2	5	27	3
3	3	28	4
4	1	29	3
5	2	30	2
6	3	31	4
7	1	32	2
8	3	33	3
9	5	34	5
10	1	35	2
11	5	36	1
12	3	37	4
13	5	38	4
14	5	39	3
15	1	40	1
16	4	41	4
17	5	42	2
18	5	43	2
19	5	44	5
20	1	45	3
21	5	46	3
22	1	47	4
23	2	48	2
24	4	49	1
25	1	50	4



## IBPS PO Exam 2011: Computer Knowledge: Question Paper

1.	To change selected text to all capital letters, click the change case button, then click
	(1) UPPERCASE
	(2) UPPER ALL
	(3) CAPS LOCK
	(4) Lock Upper
	(5) Large Size
2.	A person who used his or her expertise to gain access to other people's computers to get information illegally or do damage is a
	(1) Hacker
	(2) Analyst
	(3) instant messenger
	(4) programmer
	(5) spammer
3.	A device that connects to a network without the use of cables is said to be
	(1) distributed
	(2) free
	(3) centralized
	(4) open source
	(5) None of these
4.	Reusable optical storage will typically have the acronym
	(1) CD



	2) DVD
	3) ROM
	4) RW
	5) ROS
5.	The most common type of storage devices are
	1) persistent
	2) optical
	3) magnetic
	4) flash
	5) steel
6.	Codes consisting of lines of varying widths or lengths that are computer-readable are known as
	1) an ASCII code
	2) a magnetic tape
	3) an OCR scanner
	4) a bar code
	5) None of these
7.	A Web site's main page is called its
	1) Home Page
	2) Browser page
	3) Search Page
	4) Bookmark
	5) None of these



8.	Part number, part description, and number of parts ordered are examples of
	(1) control
	(2) output
	(3) processing
	(4) feedback
	(5) input
9.	To access properties of an object, the mouse technique to use is
	(1) dragging
	(2) dropping
	(3) right-clicking
	(4) shift-clicking
	(5) None of these
10.	Computers use the number system to store data and perform calculations.
	(1) binary
	(2) octal
	(3) decimal
	(4) hexadecimal
	(5) None of these
11.	are attempts by individuals to obtain confidential information from you by falsifying their identity.
	(1) Phishing trips
	(2) Computer viruses
	(3) Spyware scams



	(4) Viruses
	(5) Phishing scams
12.	Why is it unethical to share copyrighted files with your friends?
	(1) It is not unethical, because it is legal.
	(2) It is unethical because the files are being given for free.
	(3) Sharing copyrighted files without permission breaks copyright laws.
	(4) It is not unethical because the files are being given for free.
	(5) It is not unethical - anyone can access a computer
13.	Which of the following can be used to select the entire document?
	(1) CTRL+A
	(2) ALT+F5
	(3) SHIFT+A
	(4) CTRL+K
	(5) CTRL+H
14.	To instruct Word to fit the width of a column to the contents of a table automatically, click thebutton and then point to AutoFit Contents.
	(1) Fit to Form
	(2) Format
	(3) Autosize
	(4) Contents
	(5) AutoFit
15.	The simultaneous processing of two or more programs by multiple processors is
	(1) multiprogramming



	(2) multitasking
	(3) time-sharing
	(4) multiprocessing
	(5) None of these
16	. A disk's content that is recorded at the time of manufacture and that cannot be changed or erased by the user is
	(1) memory-only
	(2) write-only
	(3) once-only
	(4) run-only
	(5) read-only
17	. What is the permanent memory built into your computer called?
	(1) RAM
	(2) Floppy
	(3) CPU
	(4) CD-ROM
	(5) ROM
18	. The default view in Excel isview.
	(1) Work
	(2) Auto
	(3) Normal
	(4) Roman
	(5) None of these



19.	What displays the contents of the active cell in Excel?
	(1) Namebox
	(2) Row Headings
	(3) Formulabar
	(4) Taskpane
	(5) None of these
20.	In Word you can force a page break
	(1) by positioning your cursor at the appropriate place and pressing the F1 key
	(2) by positioning your cursor at the appropriate place and pressing Ctrl+Enter
	(3) by using the Insert/Section Break
	(4) by changing the font size of your document
	(5) None of these
21.	Grouping and processing all of a firm's transactions at one time is called
	(1) a database management system
	(2) batch processing
	(3) a real-time system
	(4) an on-line system
	(5) None of these
22.	Help Menu is available at which button?
	(1) End
	(2) Start
	(3) Turnoff
	(4) Restart



		Simplifying lest Prep
(5) Reboot		
23. You can keep your pe	ersonal files/folders in	
(1) My folder		
(2) My Documents		
(3) My Files		
(4) My Text		
(5) None of these		
24. A central computer th workstations, and oth	hat holds collections of data and proner computers is a(n)	grams for many PCs,
(1) supercomputer		
(2) minicomputer	61,	
(3) laptop		
(4) server		
(5) None of these		
25. When you save to this off.	s, your data will remain intact even	when the computer is turned
(1) RAM		
(2) motherboard		
(3) secondary storage	e device	
(4) primary storage d	levice	
(5) None of these		
26. The folder retatory folder reta	ains copies of messages that you hav	ve started but are not yet ready
(1) Drafts		



	2) Outbox	
	3) Address Book	
	4) Sent Items	
	5) Inbox	
27.	ou can a search by providing more information the search engine can use to elect a smaller, more useful set of results.	
	1) refine	
	2) expand	
	3) load	
	4) query	
	5) slowdown	
28.	he contents ofare lost when the computer turns off.	
	1) storage	
	2) input	
	3) output	
	4) memory	
	5) None of these	
29.	heenables you to simultaneously keep multiple Web pages open in one brow vindow.	ser
	1) tab box	
	2) pop-up helper	
	3) tab row	
	4) address bar	
	5) Esc kev	



30.	. A DVD is an example of a(n)	
	(1) hard disk	
	(2) optical disc	
	(3) output device	
	(4) solid-state storage device	re e
	(5) None of these	
31.	. The basic unit of a workshe	et into which you enter data in Excel is called a
	(1) tab	
	(2) cell	
	(3) box	
	(4) range	
	(5) None of these	
32.	is the process of dividin	g the disk into tracks and sectors.
	(1) Tracking	
	(2) Formatting	
	(3) Crashing	
	(4) Allotting	
	(5) None of these	
33.	. Which ports connect specia	types of music instruments to sound cards?
	(1) BUS	
	(2) CPU	
	(3) USB	
	(4) MIDI	



(5) MINI
34. The process of transferring files from a computer on the Internet to your computer is called
(1) Downloading
(2) Uploading
(3) FTP
(4) JPEG
(5) Downsizing
35. In Excel,allows users to bring together copies of workbooks that other users have worked on independently.
(1) Copying
(2) Merging
(3) Pasting
(4) Compiling
(5) None of these
36. If you want to connect to your own computer through the Internet from another location, you can use
(1) e-mail
(2) FTP
(3) instant message
(4) Telnet
(5) None of these
37. To reload a Web page, press thebutton.
(1) Redo



	(2)	Reload
	(3)	Restore
	(4)	Ctrl
	(5)	Refresh
38.	Мо	bile Commerce is best described as
	(1)	The use of Kiosks in marketing
	(2)	Transporting products
	(3)	Buying and selling goods/services through wireless handheld devices
	(4)	Using notebook PC's in marketing
	(5)	None of the above
39.	Vid	eo processors consist of and, which store and process images.
	(1)	CPU and VGA
	(2)	CPU and memory
	(3)	VGA and memory
	(4)	VGI and DVI
	(5)	None of these
40.	_	are words that a programming language has set aside for its own use.
	(1)	Control words
	(2)	Control structures
	(3)	Reserved words
	(4)	Reserved keys
	(5)	None of these



41. What is the process of copying software programs from secondary storage media to the hard disk called?
(1) configuration
(2) download
(3) storage
(4) upload
(5) installation
42. This first step in the transaction processing cycle captures business data through various modes such as optical scanning or at an electronic commerce website.
(1) Document and report generation
(2) Database maintenance
(3) Transaction processing start-up
(4) Data Entry
(5) None of these
43. When the pointer is positioned on a, it is shaped like a hand.
(1) Grammar error
(2) Formatting error
(3) ScreenTip
(4) Spelling error
(5) Hyperlink
44. The computer abbreviation KB usually means
(1) Key Block
(2) Kernel Boot
(3) Key Byte



	(4) Kit Bit
	(5) Kilo Byte
45.	Which of the following are advantages of CD-ROM as a storage media?
	(1) CO-ROM is an inexpensive way to store large amount of data and information
	(2) CD-ROM disks retrieve data and information more quickly than magnetic disks do
	(3) CO-ROMs make less errors than magnetic media
	(4) All of the above
	(5) None of these
46.	A(n)is a special visual and audio effect applied in PowerPoint to text or content.
	(1) animation
	(2) flash
	(3) wipe
	(4) dissolve
	(5) None of these
47.	Which of the following is a storage device that uses rigid, permanently installed magnetic disks to store data/information
	(1) floppy diskette
	(2) hard disk
	(3) permanent disk
	(4) optical disk
	(5) None of these
48.	The piece of hardware that converts your computer's digital signal to an analog signal that can travel over telephone lines is called a
	(1) red wire



	(2)	blue cord
	(3)	tower
	(4)	modem
	(5)	None of these
49.	Pers	sonal computers can be connected together to form a
	(1)	server
	(2)	supercomputer
	(3)	network
	(4)	enterprise
	(5)	None of these
50.		is the term used when a search engine returns a Web page that matches the rch criteria.
	(1)	blog
	(2)	hit
	(3)	link
	(4)	view
	(5)	success



## IBPS PO Exam 2011: Computer Knowledge: Question Paper

**1)** 1

**21)** 3

**41)** 5

2) 1

**22)** 2

**42)** 4

**3)** 3

**23)** 2

**43)** 5

**4)** 4

**24)** 4

44) 5

**5)** 2

**25)** 3

45) 1

**6)** 4

**26)** 1

**46)** 1

**7)** 1

**27)** 1

**47)** 2

**8)** 5

**28)** 3

**48)** 4

**9)** 3

**29)** 3

**49)** 3

**10)** 1

**30)** 2

**50)** 2

**11)** 5

**31)** 2

**32)** 2

**12)** 3

**13)** 1

**33)** 4

**14)** 5

**34)** 1

**15)** 4

**35)** 2

**16)** 5

**36)** 4

**17)** 5

**37)** 5

**18)** 3

**38)** 3

**19)** 3

**39)** 2

**20)** 3

**40)** 3



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