

SHREE H. N. SHUKLA COLLEGE OF I.T. & MGMT.

(AFFILIATED TO SAURASHTRA UNIVERSITY & G.T.U)



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Lt. Shree Chimanbhai Shukla

BCA/BSCIT SEM-1 Computer Funda.

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Ch - 5 :- EMERGING TECHNOLOGY & VIRUS AND IMPORTANT TERMS.

IMPORTANT TERMS:-

✦ ATM:-

- automated teller machine.
- atm is also called automated banking machine.(abm).
- using atm customer can access there bank account in order to make cash withdraw ,deposit and check the balance.
- in atm atm card is used.
- atm card is issued by the bank.
- atm card is also known as bank card ,e card or cash card.
- using atm card we can enter pin number then we can access our account.
- Atm work 24*7.
- atm machine is found in 1996.
- atm is small types of bank.

✦ BACK UP AND RESTORE:-

- ☹ In general backup is the process as we can copy our actual data and paste some other place.
- ☹ backup is secure our data.
- ☹ if our original data is deleted we can use the data which was taken as a back up.
- ☹ we copy the backup data and paste original drive ,this process is called restore.
- ☹ if we do not backup then we can not use back up.

✦ HARD COPY & SOFT COPY:-

- ☺ soft copy is unprinted digital document.
- ☺ any data into computer is called soft copy.
- ☺ soft copy is electronics version of our file.
- ☺ any document is in form of printed is knows as hard copy.
- ☺ hard copy required paper and ink.

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☺ DATA BUS:-

- * Generally bus is collection of wire.
- * using computer bus data is transfer in one part to other part.
- * it is set of physical connection like cable, circuit and other.

Buffer:-

- * It means something reserve for use
- * It is temporary storage area.
- * Example of buffer is RAM.
- * The purpose of most buffers is to act as a holding area, enabling the CPU to manipulate data before transferring it to a device.

Spooling:-

- ☺ WE use computer printer to print something we might have observe we give printing command; we do not need to wait till all the page are printed.
- ☺ CPU becomes free after send printing command.
- ☺ Now the question is CPU is free in printer has not finished printing document.
- ☺ So, where does the data go? **The data is store in special memory is called spooling.**
- ☺ Spooling guide the printer.

Pointer:- / cursor

- ☺ Cursor is called pointer.
- ☺ We might have seen different type of symbol while working with computer.
- ☺ Cursor or pointer is special symbol like arrow, hand and many other.

Icon:-

- ☺ Icon is small picture which is use to represent computer file or some computer program.
- ☺ Computer icon is symbol that is use on computer as well as cell mobile phone or other electronic device.

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Desktop:-

- Desktop is first screen of computer.
- Desktop consists of picture, file, folder, software and many other document.
- Desktop is window that is part of total display area.

Recycle bin / Trash:-

- 🗑 Re-cycle-bin is also call trash.
- 🗑 Re-cycle-bin is icon on the window desktop that represent folder were deleted file are temporary store.
- 🗑 The size of re-cycle-bin is 10% of hard disk.

Taskbar:-

- While working within window operating system we might seen horizontal line at the bottom of the screen which has start bottom and other icon is call task bar.

System tray:-

- ✂ The system tray is located in the windows task bar.
- ✂ It contain many icon for easy access the system function such as date and time, volume and network.

E-Mail:-

E- Mail means electronic mail.
In today's world we all aware about the E-Mail.
Using in E – Mail we can send image, message.
Without internet we can not access E-Mail.
E-Mail required user name, password and E-mail address.
E-Mail is communication with to one or more user.

CLI:- CUI

- CLI means command line interface.
- In CLI user type command and computer response that command.
- The example of CLI is DOS,UNIX and LINUX.
- CLI is more secure than GUI.

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GUI:-

- GUI means graphical user interface.
- GUI is very slow computer to CLI.
- When we deal with graphical task at the time GUI use to.
- GUI can support all types of graphics, image and video.

FILE:-

- Data or information has a name is called file.
- All the information or data are store in file.
- There are many types of file like data file, txt file, program file ,
- any many more.
- We can say that file is collection of data.

Folder :-

- ❏ Folder and directory are same.
- ❏ Directory are use in cli.
- ❏ Folder are use in gui.
- ❏ Folder are use to store file.

Drive :-

- Drive is top most folder of partition.
- Hard disk can divide into many drive.
- Generally name of drive are c,d,e any more.
- In drive we can store folder and file.

Disk drive:-

- Disk drive is machine that read and write data into disk.
- Disk drive rotate the disk very fast and it write the data.
- Example of disk drive are floppy disk drive, optical disk drive.

Menu :-

- Menu is list of command or option.
- Most application have a menu bar.
- Menu bar provide easy way to access the software.

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- For example :-Menu bar like file menu, home menu , design menu , view and many more in ms word.

Shortcut key:-

- Shortcut key provide easy and fast method to use computer.
- Shortcut key always use with ctrl key ,alt key, and shift key.
- Example of shortcut keys are ctrl n, ctrl c, ctrl v ,ctrl z.

Shutdown/turn off:-

- When we don't want to use computer we can switch off computer.
- Action of switch off computer is known as shutdown.
- Shutdown means we close our computer.

Reboot/Restart :-

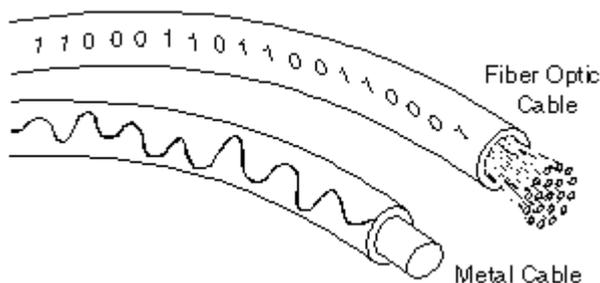
- ❌ Reboot is also called restart.
- ❌ When we want to start computer again after switch off properly is called restart.
- ❌ Restart means also we turn of and again start our computer at the a time.

Syntax:-

- When we learn English we can use properly grammar.
- Computer language can understand everything but if type with proper format.
- Syntax means grammar of particular language or command.

Fiber optic cable:-

- ❌ Fiber optic is also called optical fiber.
- ❌ It is use glass and fiber material.
- ❌ In today most of electronics device use this cable.
- ❌ It is cable that connect device.
- ❌ Data transfer speed of this cable is very fast.
- ❌ In fiber cable atmosphere are not effect.
- ❌ The life time of this cable is very long.
- ❌ This is very expensive cable.



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Ups:-

- 📖 ups means uninterrupted power supply.
- 📖 Ups is device that connect with computer.
- 📖 Ups used to power connection. Means when electric power is off at that time ups is automatic active and our computer work continues few hours.
- 📖 ups is inexpensive.

input/output device:-

- 📖 it is also called peripheral device.
- 📖 Using input and output device we can enter our data and see the result.
- 📖 Example of i/o device are monitor, printer, scanner, mic, speaker.

Dialog box :-

🔗 There are two types of dialog boxes like Modal dialog and modeless dialog box.

1) Modal dialogue box:-

- 🔗 Some dialog box are appear in the front of our screen we need to give response to it.
- 🔗 If we don't response we can not go for any task.
- 🔗 It is called model dialog box.

2) Modeless dialog box:-

- 🔗 Some dialog box are appear in front of our screen it is not necessary to give the response to it.
- 🔗 It is called modeless dialog box.

PRINTING SPEED.(CPS,CPM,LPM,PPM):-

Net meeting:

- 🔗 A product developed by Microsoft Corporation.
- 🔗 that enables groups to teleconference using the Internet as the transmission medium.
- 🔗 NetMeeting supports chat sessions, a whiteboard, and application sharing. It's built into Microsoft's Internet Explorer Web browser.

Q-Explain cell phone in detail.

- Cell phone is also called mobile phones.
- It a soft range portable electronic device.

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- It is very much popular than other device today.
- Current mobile provide many services like sms, Bluetooth ,game,internet, recording and many more.
- Cell phone is found from the concept of radio in the year 1920.
- The first cell phone found in 1973 by martin cooper.
- Cell phone is first available to the public in the year 1984.
- Many company manufacture cell phones.
- Frist cell phones is key pad cell phone. And now a days touch mobile is available.
- Cell phone is easy to use .
- It is expensive and inexpensive.

Q-Explain blue tooth in detail.

Ans:-

- blue tooth technology using short range data transmission.
- It is used in mobile ,desktop ,laptop and tablet.
- The name blue tooth is derived from the blue tooth , a king of danmark more than 1000 years ago.
- In blue tooth small file ,small video and data can sent.
- The range of blue tooth is 100 ft.
- Now a days blue tooth is not use to wide because it is old technology.

Q- Explain wi-fi in detail.

Ans:-

- Wi-fi means wire less fidelity.
- Wi-fi is wire less way to access internet.
- Using wi-fi we can use internet any where of home, office, public place and other place.
- Wife in free.
- The range of wi- fi is 1000 meter.
- Today's world wi-fi is very wide use by people.
- It is easy to use.
- Router is require to install wi-fi.

q- explain li-fi in detail.

- Lifi means light fidelity.
- Li-fi is wireless optical network technology that use in mobile ,computer and laptop.
- Li-fi is found in 2011 by harled haas.
- Harled haas is chair professor of mobile communication at the university of edinburge.
- Li-fi is advance version of wi-fi.
- It is use for wireless internet.
- Li-fi is more faser than wi-fi.
- Range of li-fi is 27 miles.

q- explain remote sensing , qis and gps.

Ans:-

Remote sensing:-

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- Remote sensing is application of space science.
- Remote sensing is collection of information about object without physical connection of that object.
- The data collection of Indian remote sensing are irs-A and irs-B.

gis:-

- Gis means geographical information system.
- Gis is a system to capture ,store and manage data with special refer to the earth.
- It is satellite base computer system that capable of store and edit the information.
- Gis is powerful tool in many area like military department , whether dept, and many more sector.

Gps:-

- Gps means global position system.
- Gps work through the space.
- It capture **3d data for** various application.
- Basically gps is found for military department in 1980.
- There are 24 satellite in gps.
- The speed of this satellite is 7000 mile per hours.
- It continues move in earth .
- Now a days gps use in many sector like
- In gas, in forest , in oli and petrol , in sports , also use farmer , sports mans and many more.

q- explain infrared technology.

Ans:-

- Infrared technology start with small use.
- Use this technology we can control electrical object with out touch.
- Remote of tv , ac and fan are use this technology.

q- explain modem

ans:-

- Modem means modulator demodulator.
- Modem use to send digital data over phonline.
- Modem use with telephone line to access internet.

q- explain virus and anti virus.

Ans :-

- Virus word is no new word in today's generation
- Computer virus are same as bacteria virus.
- Virus is a one type of program.
- Virus damage our computer.
- Virus damage hard disk, our file , internal part of computer, operating system , and input and out put device also.
- Computer virus pass computer to computer.
- Virus multiplied in computer by making copy itself.
- Computer virus come from many sector like using internet , using pen drive , using optical drive ,using email and down load file or application.
- Virus mainly come from using internet

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- Here are indicator that our computer might affect of virus like our computer work slow , computer can stop response , restart computer automatically , we can not print properly , we see some error msg.
- How to protect computer to effect of virus????

Anti virus: -

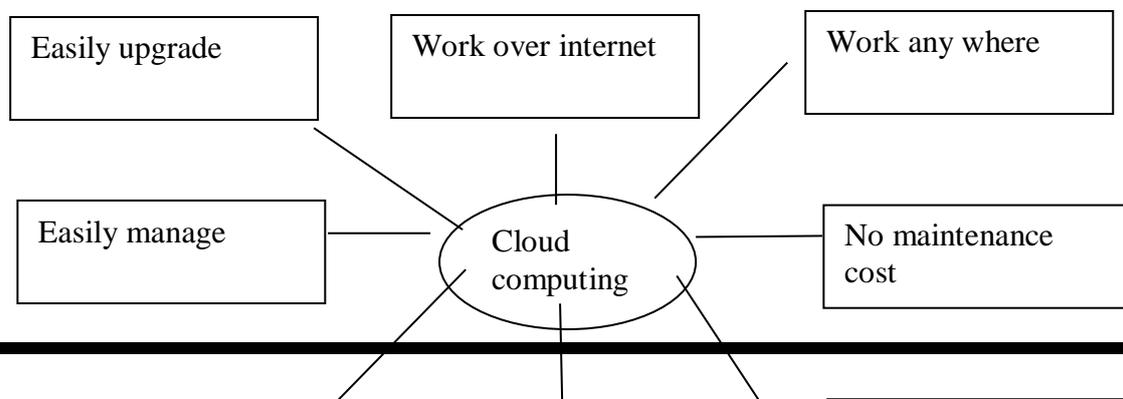
- We can protect our computer from the virus so we can perform few simple steps.
- We should running more secure operating system like linux and unix.
- If we are using unsecure os then install virus protection soft ware like antivirus.
- It is nice safe guard.
- Many antivirus software are available for free on the internet.
- But we use protected anti virus so it is more secure.
- Some virus in the jpg file also.
- There are list of some antivirus software program like avast , Norton , mcafee , eset , web root , avira , Kaspersky , avg and many more.

Q- Explain cloud computing.

Ans:-

- The term cloud computing refer to the network or internet.
- It is very advance and new technology in today's world.
- It is data storage and access technology.
- Cloud computing means store and access data and program over the internet.
- Cloud computing can not store data in our local drive.
- It is store proper server in any company.
- In other word we can say that cloud is something which is present at the remote location.
- Cloud is wire less data storage technology.
- Cloud can provide service over the internet.
- Today all the application run in cloud.
- Cloud provide following advantages like less cost , 24*7 availability , flexibility in capacity , automatic update, high security , easily manage.

Benefit of cloud computing:-



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Example: Dropbox, Gmail, Facebook

- Right now, Dropbox is the clear leader in streamlined **cloud** storage allowing users to access files on any device through its application or website with up to 1 terabyte of free storage.
- Google's email service provider Gmail, on the other hand, provides unlimited storage on the **cloud**.

Cloud provide following service : (explain service model in cloud computing)

IAAS , PAAS , SAAS.

1)IAAS:-

- Infrastructure as a service.
- according to internet engineering task force(**ietf**), the most basic cloud service model is that provide offer of infrastructure , machine and other resource.
- it refer to online service that the user from detail of infrastructure like physical computer resource , location and security and backup facility.

2)PAAS:-

- platform as a service.
- it provide environment to application developer.
- in paas model cloud provide platform like which operating system are install in the pc and check programming language.

3)SAAS:-

- soft ware as a service.
- in saas model , user can access to application software and data base.
- in saas model cloud provide install and operate application software in the cloud and cloud user access the software from cloud.

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Some additional question and answer.

q- explain analog computer.

Ans:-

- in analog computer data is represented by using voltage.
- Analog computer is very big in size.
- Analog computer use vacuum tube or transistor as a technology.
- Today's analog computer are not in use.

q-explain MIDI keyboard .

Ans:-

- Midi keyboard or controller keyboard is piano style electronic musical keyboard.
- Midi means musical instrumental digital interface.

q- what is flash memory.

Ans:- rom aama lakhvanu....

q- what is seek time? Or what is access time?

Ans:-

- The seek time and access time are use in hard disk
- Seek time divide all the process in the seek one.
- Seek time give the data to the hard disk for read and write operation.
- It is a time management system.

q- explain ddr ram.

Ans:-

- Ddr means dual data rate.
- Ddr ram is temporary storage memory.

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- Ddr ram is plastic cover magnetic material.
- Ddr ram is advance ram.

q- explain wireless device.

Ans:-

- Coreless phone , remote control ,radio, wire less mouse and wire less key board are example of wire less device.
- Wireless router is also example of wireless device.
- It not use any type of wire for data transmission.
- It is advance technology.
- Today most of device are wire less device.
- It is very expensive technology.

q- wexplain GSM.

- Gsm means global system for mobile communication.
- Gsm is digital mobile network that is widely use by mobile phone user.
- Gsm is advance communication system.
- **GSM** is a standard developed by the **European Telecommunications Standards Institute (ETSI)** to describe the protocols for second-generation (2G) digital cellular networks used by mobile devices such as mobile phones and tablets.

q- explain 5gl.(5th generation programming language)

ans:-

- 5gl is any programming language base on problem solving and return algorithm style.
- Any programming language that use logical statement ,control statement and types of loping us a part of 5gl.

q- how many type of modem are available.?

Ans:- there are two types of modem are available like

- 1) Ethernet modem
- 2) Wireless modem.

q- explain CDMA.

Ans:-

- CDMA stands for “**Code Division Multiple Access.**”
- It is radio networks used by wireless carriers.

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- **CDMA** is an example of multiple access, where several transmitters can send information simultaneously over a single communication channel..
- **CDMA** is used as the access method in many mobile phone standards.
- It is old technology.

q- explain static ram(sram).

Ans:-

- **Static random-access memory (static RAM or SRAM).**
- it is a type of **random-access memory (RAM)**
- that uses flip-flop circuit to store each bit.
- **SRAM** is volatile memory; data is lost when power is removed.

q- explain dynamic ram

ans:-

- "**Dynamic Random Access Memory.**"
- DRAM is a type of **RAM** that stores each bit of data on a separate capacitor.
- This is an efficient way to store data in memory, because it requires less physical space to store the same amount of data than if it was stored statically.

q- explain 4gl .

ans:- - **Fourth-generation language (4GL)**

- **Fourth-generation** computer programming **language.**
- 4GLs **are** closer to human **language** than other high-level languages and **are** accessible to people without formal training as programmers.
- They allow multiple common operations to be performed with a single programmer-entered command.
- **Example** of these languages include Perl, Python, Ruby, SQL,

q- explain 3gl in detail.

Ans:-

- A **third generation language** improves over a second-generation language by having the **computer** take care of non-essential details.
- A **programming language** such as C, FORTRAN, or Pascal enables a **programmer** to write programs that are more or less independent from a particular type of **computer**.

q- explain 2gl

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ans:-

- A **second generation programming language** is also known as an assembly **language**.
- These archaic **programming languages** were popular during the late 1950s.
- A **second-generation language** uses alphabet letters, so **programming** is technically easier than just using complex series of zeros and ones.

Q:explain 1gl:-

Ans:-

- A **first-generation programming language** (1GL) is a machine-level **programming language**.
- The instructions in 1GL are made of binary numbers, represented by 1s and 0s.
- This makes the **language** suitable for the understanding of the machine but far more difficult to interpret and learn by the human **programmer**.

q- how many types of virus are available.

Ans:-

- 1) Boot sector virus
- 2) Web scripting virus
- 3) Browser virus
- 4) Resident virus
- 5) Direct action virus
- 6) Polymer virus
- 7) File infector virus
- 8) Macro virus
- 9) Multi virus

q- give the full form of sim card.

Ans :- subscriber identity module.

q- explain com.

Ans:-

- Computer output microfilm.
- Com is system that convert data into microfilm form
- It is develop in 1960.

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- This com are use in tv and movie industries.

g- Explain Edvac:-

_EDVAC (Electronic Discrete Variable Automatic Computer) was one of the earliest electronic computers. Unlike its predecessor the ENIAC, it was binary rather than decimal, and was designed to be a stored-program computer.

Full form of ENIAC:-

Ans:-

ENIAC, short for Electronic Numerical Integrator And Computer, was the first general-purpose electronic computer.

Some other full form

ENIAC:- short for Electronic Numerical Integrator And Computer,

EDVAC:- Electronic Discrete Variable Automatic Computer

IBM:-International Business Machines Corporation

EDSAC:-Electronic Delay Storage Automatic Calculator

UNIVAC:-Universal Automatic Computer

LSI:-Large-Scale Integration

VLSI:- Very-large-scale integration

SSI :- Small Scale Integration.

MSI:- Medium Scale Integration.

ULSI:- Ultra Large Scale Integration.