

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

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



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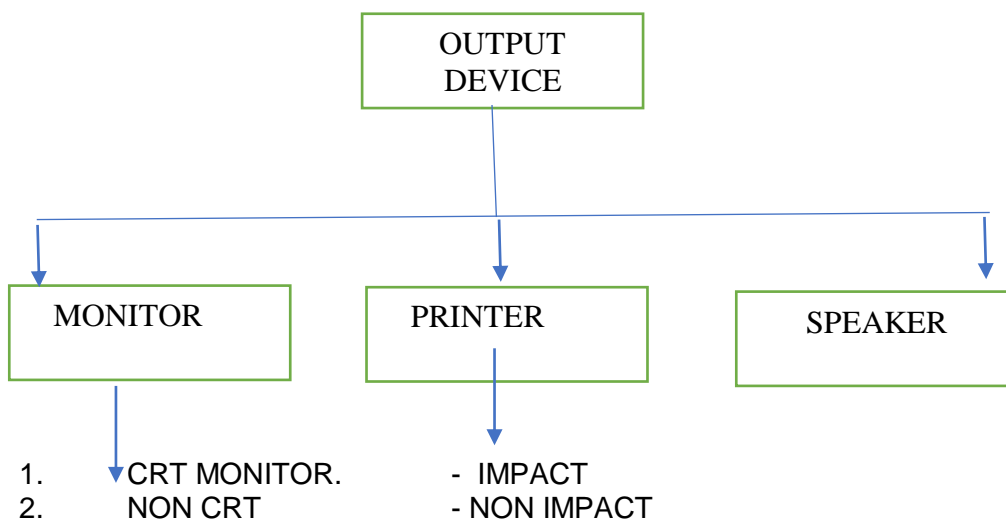
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CH-3:- OUTPUT DEVICE

Q-1 WHAT IS OUTPUT DEVICE? EXPLAIN TYPES OF OUTPUT DEVICES.(5 MARKS M .IMP)

DETAILING:-



DEFINITION:-

- Output device is electronics device that receive data from the computer and translate them into human language.
- There are many types of output devices available today.

1) **MONITOR:-**

- It is most popular output device.
- It produce soft copy output.
- It was found 1862.
- It is also called v.d.u (video display unit) or visual display.
- It is window that generate output of all process of computer.
- There are two types of monitor like crt and non crt.

1) **CRT MONITOR:-**

- Crt means cathode ray tube.
- It is non portable monitor.
- This monitor is look like tv.

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- It is most common and popular o/p device.
- It is use cathode tube.
- This monitor available in many size like 15,17,21 and 24 inch.
- It generate too much heat.
- Crt monitor also available in black n white and color.
- It is old technology not use today.

2) **NON CRT MONITOR:**

- Non crt include lcd,led and pdp.
- It is use microprocessor chip.
- It is light in weight.
- It is use less electronics power.
- It generate too less heat.
- It is portable.
- It is advance technology.
- There are three types of non crt monitor. we explain here one by one.

A)

B) LCD:-

- Liquid crystal display.
- After crt monitor lcd is used.
- It is small in size and light in weight.
- It is used micro chip for processor.
- It is portable.
- It provide high resolution.
- Lcd is found in 1968.
- Lcd available in color also.
- There area many size of lcd monitor like 14 ,17,21,29 inch.

C) **LED:-**

- Light emitting diodes.
- It is found in 1977.
- After lcd it is used.
- It is advance.
- It is portable.
- It provide high resolution and better quality output.
- It is more use today.

D) **PDP:-**

- Plazma display panel
- It is found in 2014.
- It is most advance technology today world.
- Pdp is latest monitor types.
- It is very big in size.
- It provide very high resolution and much better quality output to compare other device.
- It is very expensive.

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Crt monitor



lcd monitor



led monitor



Pdp monitor.

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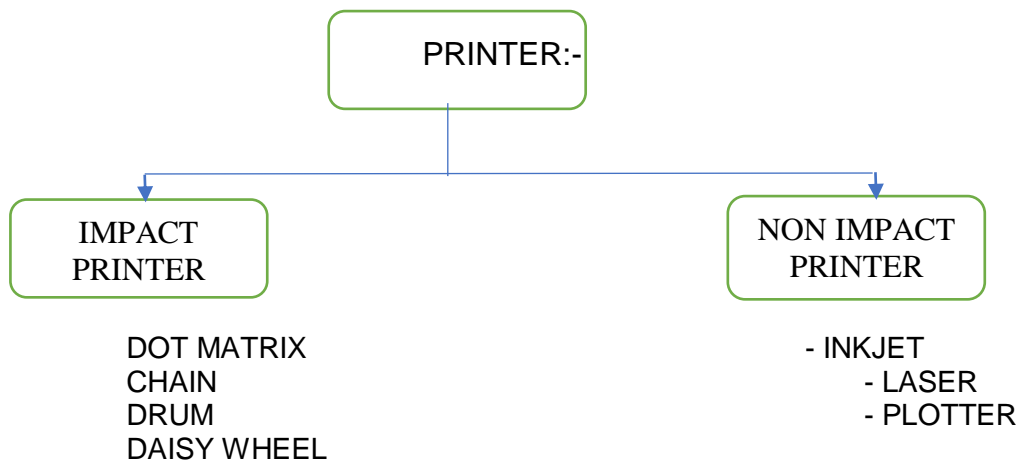
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PRINTER:-



- Printer are most popular and common types of o/p device.
- It is responsible to generate o/p in hard copy format.
- Printer are connect into parallel port or usb port.
- To operate printer it require driver and software.
-
- There are two types of printer.
- 1) impact printer
- 2) non impact printer.
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-
-
-
- Printer are classified as character printer, line printer and page printer.
-
- **Character printer** print one character at a time
- **Line printer** print one line at a time.
- **Page printer** print page one page at a time.
-
- Printer are available in color and black & white.
- Printer is found in 1938.

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TYPES OF PRINTER:

1) IMPACT PRINTER:-

- Impact printer use ribbon technology
- It is old technology printer.
- There are four types of impact printer like Dot matrix ,chain, drum and daisy wheel.

1) DOT MATRIX PRINTER:-

- It is impact printer.
- It is use ribbon technology.
- It is a character printer because it print one character at a time.
- It is old technology.
- Dot matrix printer is very noisy .to reduce voice we can use cover.
- It print multiple copy at a time by using carbon paper.
- The speed of **this printer are 30 to 600 character per second(cps).**



2) DAISY WHEEL PRINTER:

- It is impact printer.
- It is also use ribbon technology.
- It is old printer.
- In this printer metal wheel is use.
- It is **character printer.**
- The **speed of this printer are 10 to 50 character per second(cps).**

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3) DRUM PRINTER:-

- It is impact printer.
- It is use ribbon technology.
- It is use metal cylinder.
- It is line printer.
- The speed of this printer are 300 to 2000 line per minute.(lpm).



4) CHAIN PRINTER:-

- It is impact printer.
- It use ribbon technolgy.
- **The speed of this printer are 40 to 100 character per second.**
- It is old technology.

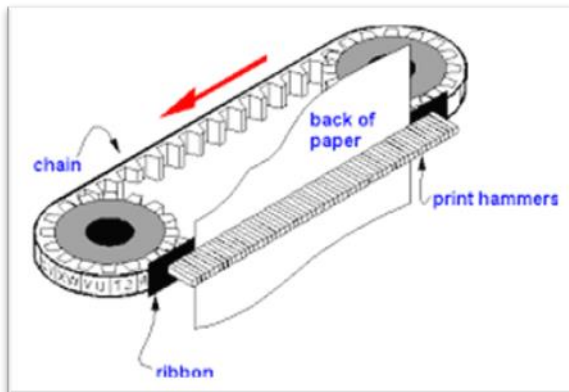
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2) NON IMPACT PRINTER:-

- Non impact printer is advance printer.
- It is use spray with laser technology.
- This types of printer use every where today.
- There are two types of non impact printer like
- 1) inkjet printer
- 2) laser printer
- 3) plotter printer

1) INKJET PRINTER:-

- It is non impact printer.
- It is use spray with laser technology.
- It is character printer.
- Ink jet printer produce high quality output .
- It is quiet in operation.
- Ink jet printer are colour and black n white.
- The speed of this printer are 40 to 300 character per second.(cps)
- It is advance technology.
- IT IS EXPENSIVE.



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2) LASER PRINTER:-

- It is non impact printer.
- It is use spray technology.
- It is most useful and popular printer.
- This printer is page printer.
- Low speed laser printer print 4 to 12 page per minute(ppm).
- High speed laser printer print 500 to 1000 page per minute(ppm).
- It is not expensive.
- It can not generate multiple print at a time because it not use carbbon.



- PLOTTER:-
- Plotter is use to print diagram ,banner,large image and graphics images.
- Plotter are very slow and they are very large.
- It is expensive.
- It is non portable
- It is not use paper because it is use special type of cloths and plastics.



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3) SPEAKER:-

- It is output device.
- All the computer generate sound with the help of speaker.
- Speaker convert electronics signal in sound wave.
- There are two types of speaker like internal and external speaker.

1) Internal speaker:-

- It is available with motherboard.
- It is only responsible to generate beep sound or some small sound to alert user.

2) External speaker:-

- it is available with sound card as well as motherboard circuit and also out of cpu.
- It require software or driver.
- Speaker support audio file, video file or sound file.

OTHER OUTPUT DEVICE:-

1) LCD PROJECTOR:-

- Liquid crystal display projector.
- Lcd projector is type of video projector.
- It display video,image,file on screen or any flat surface.
- It is modern projector.
- Easy to use no any driver or software need.
- It is portable and expensive.
- It is useful in education department,private sector,gov office and many other site.



2) OHP PROJECTOR:-

- Ohp means over head projector.
- It is use in education department.
- It display diagram,text or image on the screen or flat surface.
- It is expensive.
- It is old technology.

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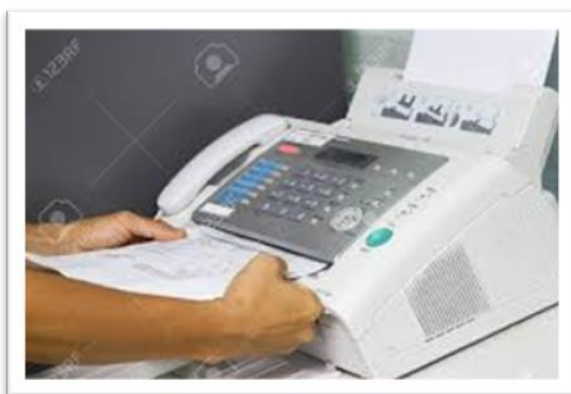
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3)

FAX:

- Fax means fascimile.
- It is called telecopy or telefax.
- It transfer text and image.
- Telephone line is required to use fax machine.



4)

OLED PROJECTOR:

- Oled means organic light emitting diode.
- It is display high resolution video,image or graphics.
- It is found in 1987 by codek company.

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5) HEADPHONE:-

- Headphone are small listening device.
- It is a convert electronic signal into sound wave.
- Headphone are also known earphone.

6) SGD:-

- Sgd means speech generating device.
- It is also known as voice output communication.
- This device allow user to select message to be spoken.
- This device are attach into computer system.
- It is expensive and not widely use.



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7)

GOOGLE GLASS:-

- Google glass is optical head display technology.
- It look like eye glass.
- It display information in eye glass.
- The first google glass was found in 15th may 2014.
- The price of google glass is \$1500.
- On January 2015 google was announced that it would be stop production of google glass for security reason.

