

## Lecture -2

1. What are the two types of output devices based on the method of printing?

- a) Laser printers and inkjet printers
- b) Impact printers and non-impact printers
- c) Dot-matrix printers and daisy wheel printers
- d) Chain printers and drum printers

**Answer: b) Impact printers and non-impact printers**

2. Which of the following is an example of an impact printer?

- a) Dot-matrix printer
- b) Laser printer
- c) Inkjet printer
- d) Flatbed plotter

**Answer: a) Dot-matrix printer**

3. Which of the following is an example of a non-impact printer?

- a) Daisy wheel printer
- b) Drum printer
- c) Inkjet printer
- d) Chain printer

**Answer: c) Inkjet printer**

4. What is an Audio Response Unit?

- a) A device that allows the user to talk to a computer
- b) A device that permits a computer to talk back to the user
- c) A device that produces high-quality diagrams on paper
- d) A device that displays results in electronic or paper medium

**Answer: b) A device that permits a computer to talk back to the user**

5. What are the common output devices which produce output that is easily understood?

- a) Printers and Monitors
- b) Keyboard and Monitors
- c) Printers and Keyboard
- d) Scanner and Monitors

**Answer: a) Printers and Monitors**

6. What type of printers are ideal to be used for carbon copies?

- a) Inkjet Printers
- b) Laser Printers
- c) Impact Printers
- d) Non-Impact Printers

**Answer: c) Impact Printers**

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7. Which of the following is a display device which can produce text and graphic as output?

- a) Audio Response Unit
- b) Video Display System
- c) Printer
- d) Scanner

**Answer: b) Video Display System**

8. Which of the following is a technology in which molecules of a liquid crystal line up in such a manner that it creates images on the screen by blocking or transmitting light on the screen?

- a) CRT
- b) LCD
- c) LED
- d) Plasma

**Answer: b) LCD**

9. What are the two main components of the video subsystem of a PC?

- a) Monitor and Keyboard
- b) Monitor and Mouse
- c) Monitor and Video adapter
- d) Monitor and Hard Disk

**Answer: c) Monitor and Video adapter**

10. Which of the following is a type of impact printer?

- a) Laser Printer
- b) Inkjet Printer
- c) Dot-matrix Printer
- d) Thermal Printer

**Answer: c) Dot-matrix Printer**

11. Which of the following is a type of output device used for specific purposes?

- a) Sound Card
- b) Speakers
- c) Video Card
- d) All of the above

**Answer: d) All of the above**

12. Which of the following is a type of display technology used in monitors?

- a) Plasma
- b) LED
- c) CRT
- d) OLED

**Answer: c) CRT**

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13. In the text, which of the following is an example of a hardcopy output device?

- a) Printer
- b) Monitor
- c) Sound card
- d) Projector

**Answer: a) Printer**

14. Which of the following is a characteristic of impact printers?

- a) They are quiet in operation.
- b) They use thermal, electrostatic, chemical or inkjet technology to produce printed output.
- c) They are capable of producing high resolution graphics.
- d) They use some sort of striking/hammering action to press carbon or fabric ribbon against paper to create a character or a pattern.

**Answer: d) They use some sort of striking/hammering action to press carbon or fabric ribbon against paper to create a character or a pattern.**

15. Which of the following is an example of a non-impact printer?

- a) Dot-matrix printer
- b) Daisy wheel printer
- c) Drum printer
- d) Inkjet printer

**Answer: d) Inkjet printer**

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### True and False Questions

1. Output devices of a computer are used to display results in an electronic or paper medium.
2. Dot-matrix printers are non-impact printers that use a striking/hammering action to press carbon or fabric ribbon against paper to create a character or a pattern.
3. Impact printers use thermal, electrostatic, chemical or inkjet technology to produce printed output and are fast and quiet in operation.
4. A plotter is an output device that produces high quality diagrams on paper using color pens to draw lines on the paper.

### Answers:

1. True
2. False (Impact Printer)
3. False (non-Impact Printer)
4. True

Explanation Questions:

1. What are the two main categories of output devices?
2. What is the difference between impact and non-impact printers?
3. What are some common non-impact printers?
4. What is the purpose of an audio response unit?

**Answers:**

- 1. The two main categories of output devices are hardcopy output and softcopy output.**
- 2. Impact printers use a striking or hammering action to print characters, images, and symbols on paper, while non-impact printers form characters or images without making print heads strike the paper.**
- 3. Some common non-impact printers are inkjet printers and laser printers.**
- 4. The purpose of an audio response unit is to allow a computer to talk back to the user, providing a valuable means of communication for those who are physically handicapped or partially sighted.**

Some review questions from Lecture-1 مراجعة أسئلة المحاضرة الأولى

1. What is a computer?

**a) An electronic device that processes data.**

b) A device used for communication.

c) A tool used for cooking.

d) A machine used for transportation.

2. What are the two major types of computers based on their way of handling data?

a) Analogue and Hybrid

b) Digital and Hybrid

**c) Analogue and Digital**

d) Digital and Micro

3. Which type of computer works on continuous variables like waves of the signal?

a) Digital computer

b) Hybrid computer

**c) Analogue computer**

d) Microcomputer

4. What is the smallest single user computer called?

**a) Microcomputer**

b) Digital computer

c) Portable computer

d) Mainframe computer

5. What is a laptop?

**a) A portable computer that can sit on the lap.**

b) A small device that fits in the palm.

c) A powerful single-user computer.

d) A computer that works on continuous variables.

**Dr. Mohammed Sami Mohammed and M.Sc. Sahar Jasim Mohammed**

اعداد م.د. محمد سامي محمد و م.م. سحر جاسم محمد

**Dr.mohammed.sami@uodiyala.edu.iq**

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6. What are the output devices of a computer used for?

**a) Displaying results in electronic or paper medium**

b) Storing data digitally

c) Processing data

d) Receiving input from the user

7. Which type of output device produces hardcopy output?

**a) Printers**

b) Monitors

c) Projectors

d) Sound cards

8. Which type of printers use striking/hammering action to create characters or patterns on paper?

**a) Impact printers**

b) Non-impact printers

c) Laser printers

d) Inkjet printers

9. What is the main component of a video display system?

**a) Monitor**

b) Printer

c) Keyboard

d) Central Processing Unit

10. What is the purpose of an audio response unit?

**a) To allow the user to talk to the computer**

b) To produce sound output from the computer

c) To read word processed documents

d) To find telephone number

## Computer Architecture and Organization

الفضل هو الفراغ الذي يجب معرفة اجابته - Fill the blanks:

1. **Impact printers** are noisy and are not capable of producing high resolution graphics.
2. The most common character impact printers are **daisy wheel and dot matrix.**
3. The most common Line impact printers are **chain printers and drum printers.**
4. Non- Impact Printers use **thermal, electrostatic, chemical or inkjet technology** to produce printed output.
5. Non-Impact printers are **fast and quiet** in operation.
6. The most common non-impact printers are **inkjet printers and laser printers.**
7. The smallest unit of data size in computer called **Bit.**
8. Video Display System provides a visual link between **the user and the computer.**
9. **Video Display System** provides a visual link between the user and the computer.
10. **Cathode Ray Tube (CRT)** contains a vacuum tube which is used for display on screen in a computer.
11. **Liquid Crystal Display (LCD)** is a technology in which molecules of a liquid crystal line up in such a manner that it creates images on the screen by blocking or transmitting light on the screen.

Q/ Compare between Impact and non-Impact printers?

Impact Printers	Non-Impact Printers
Work like typewriter and use striking/hammering action.	They use thermal, electrostatic chemical and inkjet technologies.
Print in black or single colour.	Produce single colour/multicolouroutput.
Are noisy.	Almost noiseless.
High resolution graphics cannot be produced	High resolution graphics can be produced
Examples: Dot Matrix Printer,	Laser and Inkjet