Optical Barcode Reader (OBR)

- It is a photoelectric device that scans a set of vertical bars of different width by means of reflected light. These vertical lines are called Bar codes that are used to represent alpha numeric data by varying the width and combination of adjacent vertical lines. Bar code reading is done by a scanner connected to a computer.

- These bars are detected at ten digits. The first five digits identify the supplier or manufacturer of an item. The second five identify individual products.

Magnetic Ink Character Reader (MICR)

- MICR is a character recognition technology used to scan and read the information directly into a data-collection device. MICR characters can be read easily by humans and are printed on documents using a magnetic ink.

- E.g. MICR is mainly used by the banking industry for the processing of cheques.

Speech Recognition System

- These devices are used to recognize the voice and translate it into the text using speech recognition system.
• Speech recognition software is loaded into the machine which gathers sound waves, remove unwanted noise and compare the incoming signal against a pattern stored in memory. If sound is similar or almost similar then the voice is translated into text otherwise it is ignored.

• Speech recognition system consists with the following components:
  
a) Computer system with sound card
  
b) Speech Recognition software
  
c) Microphone

Exercise:

1. Write short notes on Touch Screen, Light Pen, Scanner, OMR, OCR, OBR AND MICR.