

Course Name : O Level(B3-1st sem.) Subject : ITT&NB

Topic : Input Devices Part-3

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Optical Barcode Reader (OBR)

- It is 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 scanner connected to a computer.
- These bars are detected at ten digits. The first five digits identify the supplier or manufacturer of item. The second five identify individual product.



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 it is 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.