

## EXPERIMENT-1

- **AIM:** Familiarization of different keys of 8085 microprocessor kit and its memory map.
- **APPARATUS:** 8085 kit.
- **DIAGRAM:**

Reset	VCT INT	Shift	C	D	E	F
RTG SI	INCD	DELD	8	9	A	B
DEL GO	INS BM	REL EXEM	4	5	6	7
STRG PRG	MEMO MEME	FILL	0	1	2	3

Keyboard of 8085 kit

- **THRORY:-**

### KEYBOARD DESCRIPTION:

Vinytics 8085 kit has 28 keys and six-seven segment display to communicate with the outside world. As kit is switches ON, a message –'UP 85' is displayed on the display and all keys are in command mode.

The keyboard is as shown below:

- **RESET:-** Reset the system.
- **VCT INT:-** Hardware interrupt via keyboard, RST 7.5.
- **SHIFT:-** Provides a second level command to all keys.
- **GO:-** To execute a program.
- **SI:-** To execute the program on single step mode.
- **EXREG:-** EXAMINE REGISTER; allows user to examine and modify the contents of different register.
- **PRE:-** Previous is used as an intermediate terminator in case of examine memory.
- **DEL:-** DELETE the part of the program or data with relocation, by one or more bytes.
- **INS:-** Inserts the part of the program or data with relocation, by one or more bytes.
- **B.M:-** BLOCK MOVE allows user to move a block of memory to any RAM area.
- **FILL:-** Allows user to fill RAM area with a constant.
- **REL:-** RELOCATES a program written for some memory area and to be transferred to other memory area.

# Microprocessor Lab Manual Explanation

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