

Microprocessor System, ETCS-302
Assignment No. 5

- 1) What is interfacing?
- 2) What are the requirements to be met while interfacing I/O devices to Microprocessor / microcontroller?
- 3) Draw the block diagram of 8255 and explain its working. What is Control Word register?
- 4) Determine the control word for the following configuration of 8255:-
Port A – Output
Mode of port A – Mode 1
Port B – Output
Mode of port B – Mode 0
Port C lower (pins PC0 – PC2) – Output.
- 5) What is 8254? Discuss its various operating modes. What are its areas of applications?
- 6) Explain major components of 8259 with the aid of suitable diagram.
- 7) Draw the interfacing diagram for 8086 based system (minimum mode) with the following specification.
-8255 PPI in I/O address space, also show the required latches, buffers and decoder
.draw the memory map for the above interface.
- 8) State the differences between I/O mapped I/O and Memory mapped I/O.
- 9) Explain the command words/control words of 8259 in details.
- 10) Draw the block diagram of 8279 and explain its working.