Microprocessor Assignment#4 B.Sc. CSIT

- 1. Explain instruction cycle, machine cycle and T-States. Draw timing diagram of STA instruction. Make necessary assumptions.
- 2. Explain instruction cycle, machine cycle and T-states. Draw timing diagram of IN instruction with brief description.
- 3. What is instruction cycle? Draw timing diagram of MOV A, B. Make necessary assumptions.
- 4. Explain instruction cycle, machine cycle and T-states. Draw timing diagram of fetch and execute of LDA instruction with brief description.
- 5. Differentiate between instruction cycle and machine cycle. Draw timing diagram of MVI A, 32 H.
- 6. What do you mean by Isolated I/O? Explain basic DMA operation in brief.
- 7. Differentiate between interrupt based I/O and DMA based I/O. Explain DMA operation in brief.
- 8. Differentiate between vectored and non-vectored interrupts. Where and how 8259 PIC can be used to handle interrupts.
- 9. What is the significance of interrupt masking? Differentiate between vectored and polled interrupt.
- 10. Write short note on:
 - a. DMA
 - b. Interrupts
 - c. Interrupt Masking

Deadline: 2081/04/20