

### **Assignment 3**

- 1) What are interrupts in Microprocessors? Why are interrupts required in microprocessors? Write about the following interrupt pins
  - a) TRAP
  - b) RST7.5
  - c) RST6.5
  - d) RST5.5
  - e) INTR
- 2) What are externally initiated operations in 8085? Explain
- 3) Draw and explain the timing diagram of I/O read and I/O write operation.
- 4) Write a program in 8085 to store 60H, BAH, 7CH, and 10H in memory location starting from 2000H. Add these data and store the result in 2500H and carry in 5001H. Explain your logic too.
- 5) Write a program in 8085 to add 16 bit values from 2000H with 16 bit values from 2010H and store the result from 2100H and store the carry in 20FFH.
- 6) What are maskable and non maskable interrupts? Explain
- 7) What are vectored and non vectored interrupts? Explain.
- 8) What are interrupt service routines? Explain
- 9) Can the microprocessor be interrupted again before the completion of the first interrupt service routine? Explain

**Deadline: 18th Baisakh, 2082**

**Please submit your assignment in the designated deadline. No excuses (absentees, preparation for tests, etc ) will be accepted.**