

E-ASSIGNMENT – 1

Instruction Set of Intel 8085

Rules for Assignments:

Purpose:

The assignments will primarily be practice problems for the exams. Thus, you should not collaborate on it with others by splitting the work and sharing answers. You will gain the most benefit from doing it by yourself. You can, of course, ask me for help. If someone in the class asks you for help on assignments, handle the situation as if you are a course instructor. Don't just give them an answer, but make sure they know how to find the answer on their own. *If I feel that people have submitted answers that are merely copies of each other, I will grade zero to all the copies.*

Due Date:

The last date for the submission of this assignment is Saturday, 18th Sept. 2010.

Late Policy:

You must do your work on time because we'll be correcting/discussing it in class. *No assignment will be accepted after the due date.* If you know that you have a specific time conflict, make arrangements with me in advance for a separate assignment for late submission.

Format:

All e-assignments should be done according to the following format:

- E-assignment must have a cover page including *title of assignment, subject, date of submission, students name, class, roll no. and submitted to.*
- For a sample of cover page, visit my website <http://www.eazynotes.com>.
- The e-assignment should be written in **MS-Word** only with extension .doc (not .docx).
- Font should be **Times New Roman** with size **12**.
- Headings should be **Bold** with size **16** and sub-headings should be **Bold** with size **14**.
- Alignment should be **Justified**.
- Line spacing should be **1.5 lines**.

- Page size should be **A4** and margins should be Left-Right = 0.75 inch and Top-Bottom = 1 inch.
- The questions should be **Bold** and one blank line after each answer.
- **No colors** should be used except for diagrams (if any). Text should be in black color only.
- Pages should be numbered.
- Mention *Contents* at the beginning and *References* at the end of each assignment.
- Your assignment should be according to the above said format otherwise it will be rejected.

QUESTIONS

1. Short answer type questions:

Registers of 8085 Processor contains the following data:

A = 01011011, B = 10101011, H = 01000000, L = 00100000

- a. What will be the contents of Register A & Register B after execution of the following instructions:

XRA B

RAL

ADD L

ANA B

- b. What will be the status of Carry Flag after executing CMP L Instruction?
- c. What will be the contents of PC after the execution of RST 6 Instruction?
- d. Write three different methods to clear Accumulator.
- e. Calculate the time required to execute the following two instructions if the system clock frequency is 750 KHz:

MOV C, B (5 T-States)

JMP 2050 H (10 T-States)