

CSE-3105 (Microprocessors and Micro-controller)

Date: 06 June 2020

Topics of Lecture 09, Lecturer 10 and Lecture 11:

Q1. What are the purposes of using status flags of Flag register of 8086/8088 microprocessor?

Q2. Write the functions of the status flags of 8086 microprocessor.

Q3. Write the process of calculating the status of status flags (i.e., PF, CF, AF, SF, ZF, OF) of 8086 microprocessor.

Q4. What will be the status of status flags (i.e., PF, CF, AF, SF, ZF, OF) of 8086 microprocessor after executing the following instructions:

- (i) ADD AX, BX where AX contains FFFFh and BX contains FFFFh
- (ii) ADD AL, BL where AL contains 80h and BL contains 80h
- (iii) SUB AX, BX where AX contains 8000h and BX contains 0001h
- (iv) INC AL where AL contains FFh
- (v) DEC BL where BL contains FEh
- (vi) MOV AX, -5
- (vii) XCHG AL, BL where AL and BL contains AAh and BBh respectively
- (viii) NEG AX where AX contains 8000h