

AHSANULLAH UNIVERSITY OF SCIENCE & TECHNOLOGY

YEAR 3 SEMESTER 1, SPRING 2017

CSE 3107: MICROPROCESSOR

QUIZ 4

(Time allowed: 20 minutes)

Student ID:..... section:

NOTE: Find the values of **SF**, **PF**, **ZF**, **CF** and **OF** after execution of each of the given instructions. Show necessary **Calculations** or give **Explanation** to justify your answer, otherwise no marks will be given. (10 marks)

Instructions	Values of Different Flags	Explanation or Calculation
MOV AX, 4000H	SF = PF = ZF = CF = OF =	
ADD AX, AX	SF = PF = ZF = CF = OF =	
SUB AX, 0FFFFH	SF = PF = ZF = CF = OF =	

CONTINUED

Instructions	Values of Different Flags	Explanation or Calculation
NEG AX	SF = PF = ZF = CF = OF =	
INC AX	SF = PF = ZF = CF = OF =	
CMP AX, 8001H	SF = PF = ZF = CF = OF =	