Computer Organization and Assembly Language

Class Test: 4 Session BSSEF12M Total Marks: 15 Time: 20 minutes

Question 1: [10]

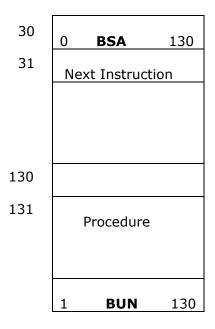
(a) The contents of PC in the basic Computer is 3AF. The contents of AC is 7EC3. The content of Memory at address 3AF is 932E. The content of memory at address 32E is 09AC. The content of memory at address 9AC is 8B9F. Give the contents of registers PC, AR, IR, DR, AC, E, I and SC at the end of the execution of the above instruction

<u>Time Signal</u> Register	T ₀ T ₁		T ₂	T ₃	T ₄ T ₅ T ₆		
PC		3B0	-				
AR	3AF		32E	9AC			
IR		932E					
I			1				
DR					8B9F		
AC						0A62	
SC						0000	
E						1	

Question 2: [05]

(b) Consider the instructions in memory and give the answers given below:-

Memory



After the execution of **BSA** instruction at address 30,

- i) The Return address i.e _____,
- ii) It will be saved in a memory location at address _____130______.
- iii) The new value of PC is ______131_____.

Also, as a result of the execution of BUN instruction,

- iv)The value of PC will be _____**31**____
- v) This BUN instruction is similar to ___**JMP**____instruction, in 8086 processor instruction set.