Homework 6 Handout

1. What singl Assume the				uivalent to	the follow	ring 80x86	instructio	n sequenc	:e?
MOV AL, [SI] INC SI									
(b) IN (c) IN	OUT 2 N BL, <i>i</i> N AL,I	56,AL AL	instructio	ns are inv	alid?				
3. What is the DEBUG immediate mode command to input the byte from port 15H?									
4. Write an 8 changing the	0x86 othe	instructior r bits, and	n sequenc outputs th	e that inpu nis data ba	uts data fro	om port 57 same port	7H, sets bi	ts 6 and 7	without
5. BIOS INT pressed?	16H,	service 12	PH returns	AX = 0080	OH. Which	key on th	e system l	keyboard i	is o
		System request	Caps lock	Num lock	Scroll lock	Right alternate	Right control	Left alternate	Left control
	Register AH								
	Bit:	7	6	5	4	3	2	1	0
		Insert	Caps lock	Num lock	Scroll lock	Alternate	Control	Left shift	Right shift
		Register AL							

Figure 5–15.BIOS INT 16H, service 12H returns the extended shift key status in registers AL and AH.

Answers to Questions

1. LODSB

- 2. (a) port address > 255,
- (b) destination must be accumulator,
- (d) immediate data not allowed
- 3. i15

4.

in a1,57; Read data

or al, cO; Set bit s 6 and 7

out 57, a1; output data

5. Insert