SELF-TEST

- 1. When accessing the BIOS services, register _____ holds the service number.
- 2. Which instruction sequence below transfers control to a memory location named A1 if register AL = 40H?

```
;Sequence 1 ;Sequence 2 ;Sequence 3 
CMP AL,40H MOV BL,40H CMP AL,40H 
JNZ A1 CMP AL,BL JA A1 
JZ A1
```

- **3.** The ASCII code defines _____ different letters, numbers, punctuation marks, and control codes.
- **4.** Determine the contents of register AL after the following instructions have executed:

MOV AL,58H AND AL,F0H **5.** Determine the contents of register AL after the following instructions have executed:

```
MOV AL,E2H
MOV CL,5
ROR AL,CL
```

6. Determine the contents of register BL after the following instructions have executed:

```
MOV BL,79H
MOV AL,82H
SUB BL,AL
SBB BL,13H
```

7. For the instruction sequence below, determine the contents of register AL (a) after the add instruction and (b) after the DAA instruction.

```
MOV AL,46H
ADD AL,85H
```

- **8.** When using DOS INT 21, function 0AH (buffered keyboard input), the first byte of the buffer represents:
 - (a) the actual length of the buffer
 - (b) the maximum length of the buffer
 - (c) the first character typed from the keyboard

Self-Test Answers

- 1. AH
- 2. Sequence 2
- 3. 128
- 4. 50H
- 5. 17H
- 6. 79 82 = F7 (CF=1) -13 = E4 -1 = E3
- 7. (a) CBH, (b) 31H
- 8. (b)