

**EEEN 3349**

**Lab # 3 Spring 2009**

Use Appendix A in your text to figure out the operation for the following opcode:

Use the **Register Map** to identify the register content.

A) Find the values of condition flags N, Z, V, and C in the CCR register after the execution of each of the following instructions, given that [A]=\$50 and the condition flags are **N=0, Z=1, V=0, and C=1**. Illustrate each instruction in your own words.

- a) SUBA #40
- b) TSTA
- c) ADDA #\$50
- d) LSRA
- e) ROLA
- f) LSLA

B) Find the values of condition flags N, Z, V, and C in the CCR register after the execution of each of the following instructions **independently**, given that [A]=\$00 and the initial condition codes are **N=0, Z=1, V=0, and C=0**. Illustrate each instruction in your own words.

- a) TSTA
- b) ADDA #\$40
- c) SUBA #\$78
- d) LSLA
- e) ROLA
- f) ADDA #\$CF