THIS IS AN **OPEN** BOOK/OPEN NOTES QUIZ – NO ELECTRONIC DEVICES

(10 points)

(6) The contents (byte) at memory location $0042 is to be added to the contents (byte) at memory location $0062 and the result output to Port B which is address $1004. Port B is an output port. Write the assembler language code to perform this operation (3 instructions needed). To perform the operation you can use the A and/or B accumulator. At the end of the operation there no other actions is required.

LDAA $42 OR LDAA $62

ADDA $62 ADDA $42

STAA $1004 STAA $1004

Using the B accumulator is OK.

(4) Accumulator A contains the value of %0001 1100 and

memory location $0030 contains the value %1110 1111

The ANDA $30 instruction is executed.

What are the contents of accumulator after the execution of the instruction? \_\_$0000 1100\_\_

What is addressing mode used? \_\_\_\_Direct Addressing Mode\_\_\_\_\_\_\_